

Xkoren[®] electric



**ORDER
CATALOGUE**





ABOUT US

On the 100th anniversary of our Republic, we make a big investment in renewable energy resources and energy efficiency in order to reduce our carbon footprint and leave a beautiful legacy for future generations. We prefer environmentally friendly technologies in energy production and adopt sustainability principles in protecting natural resources and fighting climate changes.

X Koren Electric aims at world markets in its sector with domestic production. Together with the power of its expert staff in the field, together with its effective and widespread sales organization and solution partners in seven regions of Turkey, we offer our product range consisting of L.V Protection and measurement devices mainly Low Voltage Circuit Breakers, Residual Current Circuit Breakers, Low Voltage Current Transformers and Fuse Switch Disconnectors etc. in national and international quality standards to our customers with our 100% domestic capital structure. We export to 67 countries in the world proving our quality internationally.

By keeping its energy at the highest level and focusing on unique growth and added value on the way to build the bright Turkey of the future; X Koren increases its recognition, image, awareness, capacity and diversity with the support received from its business partners both at home and abroad. X Koren Electric continues its way as a company not following technology but produces and develops innovative solutions rather than following technology.

OUR VISION

Good management is not knowing everything, but is to gather people who know their job well and to ensure the harmony between them and a leader is not the one who walks in front, but the one who shows the way. With the thought of spreading a bright light in the darkness of the night like a firefly; at XKoren Electric, where the professional people work in harmony, our philosophy is not to be a leader in worldwide switchgear products industry in the world but to lead the way. Our philosophy is to push not only Turkey's borders but also the world's borders; to plan a bright future from top to bottom with XKoren family that has internalized success by aiming for continuous growth and to act accordingly. We work as a family and act with a company profile which ensures that the domestic respect, tolerance, empathy and self-respect is impressed; that we are motivated with the success while we achieve great success through collaboration and struggle, and we incorporate our customers into this family. In this regard, the difference we made in the switchgear industry; the satisfaction smiles we receive arise from employees who have adopted the developing technology as their duty and represent our corporate identity in the best way. Our goal is to be an electricity-energy company which its light can be seen from everywhere in the darkness of the night like a firefly, that is successful and is proud of XKoren on the national and international platforms and aims to watch this success story like a movie from the world top.

OUR MISSION





In recent years, the whole world has been experiencing an era of energy change and transformation. Electrical energy which is increasingly used, also makes the transformation of energy into nature important. Nature is an extraordinary power, an admirable abundance of resources. Therefore, the mission of XKoren reduces the negative effects of climatic changes and provides sustainable energy by increasing the use of electricity, primarily with the goal of a carbon neutral world. While doing this, our mission is to improve energy efficiency, quality, safety and to keep pace with the digital world, and to produce products that conforms the characteristic structure of each business and to crown this with abundant sales. Our mission is also to provide the best service and supply to its customers by prioritizing the values that make people human, with a working policy based on ethics and sincerity, and to continue to carry out planned works with strong references at the world energy cycle.

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XKN SERIES MINIATURE CIRCUIT BREAKERS




XKN3 3kA B (3In ~ 5In) Curve


Model	In (A)	Type Code	Explanation
1 Pole 	1	XKN3 B 1P/1A	1P,B TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 B 1P/2A	1P,B TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 B 1P/3A	1P ,B TYPE, 3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 B 1P/4A	1P,B TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 B 1P/6A	1P,B TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 B 1P/10A	1P,B TYPE,3KA 10A MINIATURE CIRCUIT BREAKER
	16	XKN3 B 1P/16A	1P,B TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 B 1P/20A	1P,B TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 B 1P/25A	1P,B TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 B 1P/32A	1P,B TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
2 Pole 	1	XKN3 B 2P/1A	2P,B TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 B 2P/2A	2P,B TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 B 2P/3A	2P,B TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	4	XKN3 B 2P/4A	2P,B TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 B 2P/6A	2P,B TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 B 2P/10A	2P,B TYPE,3KA 10A MINIATURE CIRCUIT BREAKER
	16	XKN3 B 2P/16A	2P,B TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 B 2P/20A	2P,B TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 B 2P/25A	2P,B TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 B 2P/32A	2P,B TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
3 Pole 	1	XKN3 B 3P/1A	3P,B TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 B 3P/2A	3P,B TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 B 3P/3A	3P,B TYPE, 3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 B 3P/4A	3P,B TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 B 3P/6A	3P,B TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 B 3P/10A	3P,B TYPE,3KA 10A MINIATURE CIRCUIT BREAKER
	16	XKN3 B 3P/16A	3P,B TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 B 3P/20A	3P,B TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 B 3P/25A	3P,B TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 B 3P/32A	3P,B TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
4 Pole 	1	XKN3 B 4P/1A	4P,B TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 B 4P/2A	4P,B TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 B 4P/3A	4P,B TYPE,3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 B 4P/4A	4P,B TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 B 4P/6A	4P,B TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 B 4P/10A	4P,B TYPE,3KA 10A MINIATURE CIRCUIT BREAKER
	16	XKN3 B 4P/16A	4P,B TYPE,3KA 16A MINIATURE CIRCUIT BREAKER
	20	XKN3 B 4P/20A	4P,B TYPE,3KA 20A MINIATURE CIRCUIT BREAKER
	25	XKN3 B 4P/25A	4P,B TYPE,3KA 25A MINIATURE CIRCUIT BREAKER
	32	XKN3 B 4P/32A	4P,B TYPE,3KA 32A MINIATURE CIRCUIT BREAKER
40	XKN3 B 4P/40A	4P,B TYPE,3KA 40A MINIATURE CIRCUIT BREAKER	
50	XKN3 B 4P/50A	4P,B TYPE,3KA 50A MINIATURE CIRCUIT BREAKER	
63	XKN3 B 4P/63A	4P,B TYPE,3KA 63A MINIATURE CIRCUIT BREAKER	

XKN3 3kA C (5In~10In) Curve





Model	In (A)	Type Code	Explanation
1 Pole			
	1	XKN3 C 1P/1A	1P,C TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 C 1P/2A	1P,C TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 C 1P/3A	1P,C TYPE,3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 C 1P/4A	1P,C TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 C 1P/6A	1P,C TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 C 1P/10A	1P,C TYPE,3KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN3 C 1P/16A	1P,C TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 C 1P/20A	1P,C TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 C 1P/25A	1P,C TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 C 1P/32A	1P,C TYPE,3KA,32 MINIATURE CIRCUIT BREAKER
	40	XKN3 C 1P/40A	1P,C TYPE,3KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN3 C 1P/50A	1P,C TYPE,3KA,50A MINIATURE CIRCUIT BREAKER
63	XKN3 C 1P/63A	1P,C TYPE,3KA,63A MINIATURE CIRCUIT BREAKER	
2 Pole			
	1	XKN3 C 2P/1A	2P,C TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 C 2P/2A	2P,C TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 C 2P/3A	2P,C TYPE,3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 C 2P/4A	2P,C TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 C 2P/6A	2P,C TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 C 2P/10A	2P,C TYPE,3KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN3 C 2P/16A	2P,C TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 C 2P/20A	2P,C TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 C 2P/25A	2P,C TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 C 2P/32A	2P,C TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN3 C 2P/40A	2P,C TYPE,3KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN3 C 2P/50A	2P,C TYPE,3KA,50A MINIATURE CIRCUIT BREAKER
63	XKN3 C 2P/63A	2P,C TYPE,3KA,63A MINIATURE CIRCUIT BREAKER	
3 Pole			
	1	XKN3 C 3P/1A	3P,C TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 C 3P/2A	3P,C TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 C 3P/3A	3P,C TYPE,3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 C 3P/4A	3P,C TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 C 3P/6A	3P,C TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 C 3P/10A	3P,C TYPE,3KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN3 C 3P/16A	3P,C TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 C 3P/20A	3P,C TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 C 3P/25A	3P,C TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 C 3P/32A	3P,C TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN3 C 3P/40A	3P,C TYPE,3KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN3 C 3P/50A	3P,C TYPE,3KA,50A MINIATURE CIRCUIT BREAKER
63	XKN3 C 3P/63A	3P,C TYPE,3KA,63A MINIATURE CIRCUIT BREAKER	
4 Pole			
	1	XKN3 C 4P/1A	4P,C TYPE,3KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN3 C 4P/2A	4P,C TYPE,3KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN3 C 4P/3A	4P,C TYPE,3KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN3 C 4P/4A	4P,C TYPE,3KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN3 C 4P/6A	4P,C TYPE,3KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN3 C 4P/10A	4P,C TYPE,3KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN3 C 4P/16A	4P,C TYPE,3KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN3 C 4P/20A	4P,C TYPE,3KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN3 C 4P/25A	4P,C TYPE,3KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN3 C 4P/32A	4P,C TYPE,3KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN3 C 4P/40A	4P,C TYPE,3KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN3 C 4P/50A	4P,C TYPE,3KA,50A MINIATURE CIRCUIT BREAKER
63	XKN3 C 4P/63A	4P,C TYPE,3KA,63A MINIATURE CIRCUIT BREAKER	

Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN3 B 1P/80A	1P,B TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 B 1P/100A	1P,B TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 B 1P/125A	1P,B TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	2 Pole	80	XKN3 B 2P/80A	2P,B TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 B 2P/100A	2P,B TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 B 2P/125A	2P,B TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	3 Pole	80	XKN3 B 3P/80A	3P,B TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 B 3P/100A	3P,B TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 B 3P/125A	3P,B TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	4 Pole	80	XKN3 B 4P/80A	4P,B TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 B 4P/100A	4P,B TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 B 4P/125A	4P,B TYPE,3KA,125A MINIATURE CIRCUIT BREAKER





XKN3-H 3kA C (5In~10In) Curve(H SERIES)

Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN3 C 1P/80A	1P,C TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 C 1P/100A	1P,C TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 C 1P/125A	1P,C TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	2 Pole	80	XKN3 C 2P/80A	2P,C TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 C 2P/100A	2P,C TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 C 2P/125A	2P,C TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	3 Pole	80	XKN3 C 3P/80A	3P,C TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 C 3P/100A	3P,C TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 C 3P/125A	3P,C TYPE,3KA,125A MINIATURE CIRCUIT BREAKER
	4 Pole	80	XKN3 C 4P/80A	4P,C TYPE,3KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN3 C 4P/100A	4P,C TYPE,3KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN3 C 4P/125A	4P,C TYPE,3KA,125A MINIATURE CIRCUIT BREAKER

XKN6 6kA B (3In~5In) Curve

Model	In (A)	Type Code	Explanation
1 Pole 	1	XKN6 B 1P/1A	1P,B TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 B 1P/2A	1P,B TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 B 1P/3A	1P,B TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 B 1P/4A	1P,B TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 B 1P/6A	1P,B TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 B 1P/10A	1P,B TYPE,6KA 10A MINIATURE CIRCUIT BREAKER
	16	XKN6 B 1P/16A	1P,B TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 B 1P/20A	1P,B TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 B 1P/25A	1P,B TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 B 1P/32A	1P,B TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 B 1P/40A	1P,B TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 B 1P/50A	1P,B TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 B 1P/63A	1P,B TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
2 Pole 	1	XKN6 B 2P/1A	2P,B TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 B 2P/2A	2P,B TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 B 2P/3A	2P,B TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 B 2P/4A	2P,B TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 B 2P/6A	2P,B TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 B 2P/10A	2P,B TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 B 2P/16A	2P,B TYPE, 6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 B 2P/20A	2P,B TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 B 2P/25A	2P,B TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 B 2P/32A	2P,B TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 B 2P/40A	2P,B TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 B 2P/50A	2P,B TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 B 2P/63A	2P,B TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
3 Pole 	1	XKN6 B 3P/1A	3P,B TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 B 3P/2A	3P,B TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 B 3P/3A	3P,B TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 B 3P/4A	3P,B TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 B 3P/6A	3P,B TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 B 3P/10A	3P,B TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 B 3P/16A	3P,B TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 B 3P/20A	3P,B TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 B 3P/25A	3P,B TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 B 3P/32A	3P,B TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 B 3P/40A	3P,B TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 B 3P/50A	3P,B TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 B 3P/63A	3P,B TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
4 Pole 	1	XKN6 B 4P/1A	4P,B TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 B 4P/2A	4P,B TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 B 4P/3A	4P,B TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 B 4P/4A	4P,B TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 B 4P/6A	4P,B TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 B 4P/10A	4P,B TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 B 4P/16A	4P,B TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 B 4P/20A	4P,B TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 B 4P/25A	4P,B TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 B 4P/32A	4P,B TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 B 4P/40A	4P,B TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 B 4P/50A	4P,B TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 B 4P/63A	4P,B TYPE,6KA,63A MINIATURE CIRCUIT BREAKER

XKN6 6kA C (5In~10In) Curve

Model	In (A)	Type Code	Explanation
1 Pole			
	1	XKN6 C 1P/1A	1P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 1P/2A	1P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 1P/3A	1P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 1P/4A	1P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 1P/6A	1P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 1P/10A	1P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 1P/16A	1P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 1P/20A	1P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 1P/25A	1P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 1P/32A	1P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 1P/40A	1P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 1P/50A	1P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 1P/63A	1P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
2 Pole			
	1	XKN6 C 2P/1A	2P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 2P/2A	2P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 2P/3A	2P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 2P/4A	2P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 2P/6A	2P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 2P/10A	2P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 2P/16A	2P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 2P/20A	2P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 2P/25A	2P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 2P/32A	2P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 2P/40A	2P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 2P/50A	2P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 2P/63A	2P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
3 Pole			
	1	XKN6 C 3P/1A	3P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 3P/2A	3P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 3P/3A	3P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 3P/4A	3P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 3P/6A	3P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 3P/10A	3P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 3P/16A	3P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 3P/20A	3P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 3P/25A	3P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 3P/32A	3P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 3P/40A	3P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 3P/50A	3P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 3P/63A	3P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER
4 Pole			
	1	XKN6 C 4P/1A	4P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 4P/2A	4P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 4P/3A	4P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 4P/4A	4P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 4P/6A	4P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 4P/10A	4P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 4P/16A	4P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 4P/20A	4P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 4P/25A	4P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 4P/32A	4P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 4P/40A	4P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 4P/50A	4P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 4P/63A	4P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER

XKN6-H 6kA B (3In~5In) Curve(H SERIES)


Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN6 B 1P/80A	1P,B TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 B 1P/100A	1P,B TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 B 1P/125A	1P,B TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	2 Pole	80	XKN6 B 2P/80A	2P,B TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 B 2P/100A	2P,B TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 B 2P/125A	2P,B TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	3 Pole	80	XKN6 B 3P/80A	3P,B TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 B 3P/100A	3P,B TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 B 3P/125A	3P,B TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	4 Pole	80	XKN6 B 4P/80A	4P,B TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 B 4P/100A	4P,B TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 B 4P/125A	4P,B TYPE,6KA,125A MINIATURE CIRCUIT BREAKER

XKN6-H 6kA C (5In~10In) Curve(H SERIES)


Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN6 C 1P/80A	1P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 1P/100A	1P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 1P/125A	1P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	2 Pole	80	XKN6 C 2P/80A	2P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 2P/100A	2P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 2P/125A	2P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	3 Pole	80	XKN6 C 3P/80A	3P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 3P/100A	3P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 3P/125A	3P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
	4 Pole	80	XKN6 C 4P/80A	4P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 4P/100A	4P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 4P/125A	4P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER

XKN6 6kA C (5In~10In) Curve with Neutral Break

Model	In (A)	Type Code	Explanation
1 P+N	1	XKN6 C 1NP/1A	1+N P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 1NP/2A	1+N P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 1NP/3A	1+N P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 1NP/4A	1+N P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 1NP/6A	1+N P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 1NP/10A	1+N P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 1NP/16A	1+N P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 1NP/20A	1+N P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 1NP/25A	1+N P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 1NP/32A	1+N P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 1NP/40A	1+N P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 1NP/50A	1+N P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 1NP/63A	1+N P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER


3 P+N





3 P+N	1	XKN6 C 3NP/1A	3+N P,C TYPE,6KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN6 C 3NP/2A	3+N P,C TYPE,6KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN6 C 3NP/3A	3+N P,C TYPE,6KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN6 C 3NP/4A	3+N P,C TYPE,6KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN6 C 3NP/6A	3+N P,C TYPE,6KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN6 C 3NP/10A	3+N P,C TYPE,6KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN6 C 3NP/16A	3+N P,C TYPE,6KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN6 C 3NP/20A	3+N P,C TYPE,6KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN6 C 3NP/25A	3+N P,C TYPE,6KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN6 C 3NP/32A	3+N P,C TYPE,6KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN6 C 3NP/40A	3+N P,C TYPE,6KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN6 C 3NP/50A	3+N P,C TYPE,6KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN6 C 3NP/63A	3+N P,C TYPE,6KA,63A MINIATURE CIRCUIT BREAKER


XKN6-H 6kA C (5In~10In) Curve with Neutral Break (H SERIES)





Model	Pole	In (A)	Type Code	Explanation
1 P+N		80	XKN6 C 1NP/80A	1+N P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 1NP/100A	1+N P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 1NP/125A	1+N P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER
3 P+N		80	XKN6 C 3NP/80A	3+N P,C TYPE,6KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN6 C 3NP/100A	3+N P,C TYPE,6KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN6 C 3NP/125A	3+N P,C TYPE,6KA,125A MINIATURE CIRCUIT BREAKER



XKN10 10kA B (3In~5In) Curve

Model	In [A]	Type Code	Explanation
1 Pole			
	1	XKN10 B 1P/1A	1P,B TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 B 1P/2A	1P,B TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 B 1P/3A	1P,B TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 B 1P/4A	1P,B TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 B 1P/6A	1P,B TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 B 1P/10A	1P,B TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 B 1P/16A	1P,B TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 B 1P/20A	1P,B TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 B 1P/25A	1P,B TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 B 1P/32A	1P,B TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 B 1P/40A	1P,B TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 B 1P/50A	1P,B TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 B 1P/63A	1P,B TYPE,10KA,63A MINIATURE CIRCUIT BREAKER
2 Poles			
	1	XKN10 B 2P/1A	2P,B TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 B 2P/2A	2P,B TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 B 2P/3A	2P,B TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 B 2P/4A	2P,B TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 B 2P/6A	2P,B TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 B 2P/10A	2P,B TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 B 2P/16A	2P,B TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 B 2P/20A	2P,B TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 B 2P/25A	2P,B TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 B 2P/32A	2P,B TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 B 2P/40A	2P,B TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 B 2P/50A	2P,B TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 B 2P/63A	2P,B TYPE,10KA,63A MINIATURE CIRCUIT BREAKER
3 Poles			
	1	XKN10 B 3P/1A	3P,B TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 B 3P/2A	3P,B TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 B 3P/3A	3P,B TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 B 3P/4A	3P,B TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 B 3P/6A	3P,B TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 B 3P/10A	3P,B TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 B 3P/16A	3P,B TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 B 3P/20A	3P,B TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 B 3P/25A	3P,B TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 B 3P/32A	3P,B TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 B 3P/40A	3P,B TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 B 3P/50A	3P,B TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 B 3P/63A	3P,B TYPE,10KA,63A MINIATURE CIRCUIT BREAKER
4 Poles			
	1	XKN10 B 4P/1A	4P,B TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 B 4P/2A	4P,B TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 B 4P/3A	4P,B TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 B 4P/4A	4P,B TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 B 4P/6A	4P,B TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 B 4P/10A	4P,B TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 B 4P/16A	4P,B TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 B 4P/20A	4P,B TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 B 4P/25A	4P,B TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 B 4P/32A	4P,B TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 B 4P/40A	4P,B TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 B 4P/50A	4P,B TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 B 4P/63A	4P,B TYPE,10KA,63A MINIATURE CIRCUIT BREAKER

XKN10 10kA C [5In~10In] Curve

Model	In (A)	Type Code	Explanation
1 Pole			
	1	XKN10 C 1P/1A	1P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 1P/2A	1P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 1P/3A	1P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 1P/4A	1P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 1P/6A	1P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 1P/10A	1P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 1P/16A	1P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 1P/20A	1P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 1P/25A	1P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 1P/32A	1P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 1P/40A	1P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 1P/50A	1P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
63	XKN10 C 1P/63A	1P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER	
2 Poles			
	1	XKN10 C 2P/1A	2P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 2P/2A	2P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 2P/3A	2P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 2P/4A	2P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 2P/6A	2P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 2P/10A	2P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 2P/16A	2P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 2P/20A	2P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 2P/25A	2P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 2P/32A	2P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 2P/40A	2P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 2P/50A	2P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
63	XKN10 C 2P/63A	2P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER	
3 Poles			
	1	XKN10 C 3P/1A	3P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 3P/2A	3P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 3P/3A	3P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 3P/4A	3P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 3P/6A	3P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 3P/10A	3P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 3P/16A	3P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 3P/20A	3P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 3P/25A	3P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 3P/32A	3P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 3P/40A	3P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 3P/50A	3P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
63	XKN10 C 3P/63A	3P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER	
4 Poles			
	1	XKN10 C 4P/1A	4P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 4P/2A	4P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 4P/3A	4P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 4P/4A	4P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 4P/6A	4P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 4P/10A	4P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 4P/16A	4P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 4P/20A	4P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 4P/25A	4P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 4P/32A	4P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 4P/40A	4P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 4P/50A	4P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
63	XKN10 C 4P/63A	4P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER	

XKN10-H 10kA B (3In~5In) Curve(H SERIES)


Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN10 B 1P/80A	1P,B TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 B 1P/100A	1P,B TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 B 1P/125A	1P,B TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	2 Poles	80	XKN10 B 2P/80A	2P,B TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 B 2P/100A	2P,B TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 B 2P/125A	2P,B TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	3 Poles	80	XKN10 B 3P/80A	3P,B TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 B 3P/100A	3P,B TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 B 3P/125A	3P,B TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	4 Poles	80	XKN10 B 4P/80A	4P,B TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 B 4P/100A	4P,B TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 B 4P/125A	4P,B TYPE,10KA,125A MINIATURE CIRCUIT BREAKER

XKN10-H 10kA C (5In~10In) Curve(H SERIES)


Model	Pole	In (A)	Type Code	Explanation
	1 Pole	80	XKN10 C 1P/80A	1P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 1P/100A	1P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 1P/125A	1P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	2 Poles	80	XKN10 C 2P/80A	2P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 2P/100A	2P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 2P/125A	2P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	3 Poles	80	XKN10 C 3P/80A	3P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 3P/100A	3P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 3P/125A	3P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
	4 Poles	80	XKN10 C 4P/80A	4P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 4P/100A	4P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 4P/125A	4P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER

XKN10 10kA C (5In ~10In) Curve with Neutral Break

Model	In (A)	Type Code	Explanation
1 P+N	1	XKN10 C 1NP/1A	1+N P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 1NP/2A	1+N P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 1NP/3A	1+N P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 1NP/4A	1+N P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 1NP/6A	1+N P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 1NP/10A	1+N P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 1NP/16A	1+N P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 1NP/20A	1+N P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 1NP/25A	1+N P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 1NP/32A	1+N P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 1NP/40A	1+N P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 1NP/50A	1+N P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 C 1NP/63A	1+N P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER


3 P+N

3 P+N	1	XKN10 C 3NP/1A	3+N P,C TYPE,10KA,1A MINIATURE CIRCUIT BREAKER
	2	XKN10 C 3NP/2A	3+N P,C TYPE,10KA,2A MINIATURE CIRCUIT BREAKER
	3	XKN10 C 3NP/3A	3+N P,C TYPE,10KA,3A MINIATURE CIRCUIT BREAKER
	4	XKN10 C 3NP/4A	3+N P,C TYPE,10KA,4A MINIATURE CIRCUIT BREAKER
	6	XKN10 C 3NP/6A	3+N P,C TYPE,10KA,6A MINIATURE CIRCUIT BREAKER
	10	XKN10 C 3NP/10A	3+N P,C TYPE,10KA,10A MINIATURE CIRCUIT BREAKER
	16	XKN10 C 3NP/16A	3+N P,C TYPE,10KA,16A MINIATURE CIRCUIT BREAKER
	20	XKN10 C 3NP/20A	3+N P,C TYPE,10KA,20A MINIATURE CIRCUIT BREAKER
	25	XKN10 C 3NP/25A	3+N P,C TYPE,10KA,25A MINIATURE CIRCUIT BREAKER
	32	XKN10 C 3NP/32A	3+N P,C TYPE,10KA,32A MINIATURE CIRCUIT BREAKER
	40	XKN10 C 3NP/40A	3+N P,C TYPE,10KA,40A MINIATURE CIRCUIT BREAKER
	50	XKN10 C 3NP/50A	3+N P,C TYPE,10KA,50A MINIATURE CIRCUIT BREAKER
	63	XKN10 C 3NP/63A	3+N P,C TYPE,10KA,63A MINIATURE CIRCUIT BREAKER


XKN10-H 10kA C (5In~10In) Curve (H SERIES)

Model	Pole	In (A)	Type Code	Explanation
1 P+N		80	XKN10 C 1NP/80A	1+N P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 1NP/100A	1+N P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 1NP/125A	1+N P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER
3 P+N		80	XKN10 C 3NP/80A	3+N P,C TYPE,10KA,80A MINIATURE CIRCUIT BREAKER
		100	XKN10 C 3NP/100A	3+N P,C TYPE,10KA,100A MINIATURE CIRCUIT BREAKER
		125	XKN10 C 3NP/125A	3+N P,C TYPE,10KA,125A MINIATURE CIRCUIT BREAKER



Auxiliary Contact & Alarm Contact

Model	Helper Ignition	Explanation
AC-XKN3	1NO+1NC	XKN3 AUXILIARY CONTACT(1NO+1NC
AL-XKN3	1NO+1NC	XKN3 ALARM CONTACT (1NO + 1NC)
AC-XKN6	1NO+1NC	XKN6 AUXILIARY CONTACT (1NO+1NC)
AL-XKN6	1NO+1NC	XKN6 ALARM CONTACT (1NO+1NC)
AC-XKN10	1NO+1NC	XKN10 AUXILIARY CONTACT (1NO+1NC)
AL-XKN10	1NO+1NC	XKN10 XKN3 ALARM CONTACT (1NO + 1NC)

Shunt Trip




Model	Rated Operating Voltage (V)	Type Code	Explanation
NC-XKN3	24V DC	NC-XKN3/24V DC	XKN3 SHUNT TRIP (DC24)
	240V AC	NC-XKN3/240V AC	XKN3 SHUNT TRIP ((AC240)
	415V AC	NC-XKN3/415V AC	XKN3 SHUNT TRIP (AC415)
NC-XKN6	24V DC	NC-XKN6/24V DC	XKN6 SHUNT TRIP ((DC24)
	240V AC	NC-XKN6/240V AC	XKN6 SHUNT TRIP ((AC240)
	415V AC	NC-XKN6/415V AC	XKN6 SHUNT TRIP(AC415)
NC-XKN10	24V DC	NC-XKN10/24V DC	XKN10 SHUNT TRIP ((DC24)
	240V AC	NC-XKN10/240V AC	XKN10 SHUNT TRIP ((AC240)
	415V AC	NC-XKN10/415V AC	XKN10 SHUNT TRIP ((AC415)

Under Voltage Coil

Model	Rated Operating Voltage (V)	Type Code	Explanation
LV-XKN3	240V AC	LV-XKN3	XKN3 UNDER VOLTAGE COIL (AC240)
LV-XKN6	240V AC	LV-XKN6	XKN6 UNDER VOLTAGE COIL (AC 240)
LV-XKN10	240V AC	LV-XKN10	XKN10 UNDER VOLTAGE COIL (AC240)



10 kA Breaking Capacity C Type DC Circuit Breaker

Model	In (A)	Type Code	Explanation
1 Pole 	1A	XKN10 DC 1P/1A	1P,C TYPE,10KA,1A DC MINIATURE CIRCUIT BREAKER 250V
	2A	XKN10 DC 1P/2A	1P,C TYPE,10KA,2A DC MINIATURE CIRCUIT BREAKER 250V
	3A	XKN10 DC 1P/3A	1P,C TYPE,10KA,3A DC MINIATURE CIRCUIT BREAKER 250V
	4A	XKN10 DC 1P/4A	1P,C TYPE,10KA,4A DC MINIATURE CIRCUIT BREAKER 250V
	6A	XKN10 DC 1P/6A	1P,C TYPE,10KA,6A DC MINIATURE CIRCUIT BREAKER 250V
	10A	XKN10 DC 1P/10A	1P,C TYPE,10KA 10A DC MINIATURE CIRCUIT BREAKER 250V
	16A	XKN10 DC 1P/16A	1P,C TYPE,10KA 16A DC MINIATURE CIRCUIT BREAKER 250V
	20A	XKN10 DC 1P/20A	1P,C TYPE,10KA 20A DC MINIATURE CIRCUIT BREAKER 250V
	25A	XKN10 DC 1P/25A	1P,C TYPE,10KA 25A DC MINIATURE CIRCUIT BREAKER 250V
	32A	XKN10 DC 1P/32A	1P,C TYPE,10KA 31A DC MINIATURE CIRCUIT BREAKER 250V
	40A	XKN10 DC 1P/40A	1P,C TYPE,10KA 40A DC MINIATURE CIRCUIT BREAKER 250V
	50A	XKN10 DC 1P/50A	1P,C TYPE,10KA 50A DC MINIATURE CIRCUIT BREAKER 250V
	63A	XKN10 DC 1P/63A	1P,C TYPE,10KA 63A DC MINIATURE CIRCUIT BREAKER 250V
2 Poles 	1A	XKN10 DC 2P/1A	2P,C TYPE,10KA,1A DC MINIATURE CIRCUIT BREAKER 500V
	2A	XKN10 DC 2P/2A	2P,C TYPE,10KA,2A DC MINIATURE CIRCUIT BREAKER 500V
	3A	XKN10 DC 2P/3A	2P,C TYPE,10KA,3A DC MINIATURE CIRCUIT BREAKER 500V
	4A	XKN10 DC 2P/4A	2P,C TYPE,10KA,4A DC MINIATURE CIRCUIT BREAKER 500V
	6A	XKN10 DC 2P/6A	2P,C TYPE,10KA,6A DC MINIATURE CIRCUIT BREAKER 500V
	10A	XKN10 DC 2P/10A	2P,C TYPE,10KA,10A DC MINIATURE CIRCUIT BREAKER 500V
	16A	XKN10 DC 2P/16A	2P,C TYPE,10KA,16A DC MINIATURE CIRCUIT BREAKER 500V
	20A	XKN10 DC 2P/20A	2P,C TYPE,10KA,20A DC MINIATURE CIRCUIT BREAKER 500V
	25A	XKN10 DC 2P/25A	2P,C TYPE,10KA,25A DC MINIATURE CIRCUIT BREAKER 500V
	32A	XKN10 DC 2P/32A	2P,C TYPE,10KA,32A DC MINIATURE CIRCUIT BREAKER 500V
	40A	XKN10 DC 2P/40A	2P,C TYPE,10KA,40A DC MINIATURE CIRCUIT BREAKER 500V
	50A	XKN10 DC 2P/50A	2P,C TYPE,10KA,50A DC MINIATURE CIRCUIT BREAKER 500V
	63A	XKN10 DC 2P/63A	2P,C TYPE,10KA,63A DC MINIATURE CIRCUIT BREAKER 500V
4 Poles 	1	XKN10 DC 4P/1A	4P,C TYPE,10KA,1A DC MINIATURE CIRCUIT BREAKER 1000V
	2	XKN10 DC 4P/2A	4P,C TYPE,10KA,2A DC MINIATURE CIRCUIT BREAKER 1000V
	3	XKN10 DC 4P/3A	4P,C TYPE,10KA,3A DC MINIATURE CIRCUIT BREAKER 1000V
	4	XKN10 DC 4P/4A	4P,C TYPE,10KA,4A DC MINIATURE CIRCUIT BREAKER 1000V
	6	XKN10 DC 4P/6A	4P,C TYPE,10KA,6A DC MINIATURE CIRCUIT BREAKER 1000V
	10	XKN10 DC 4P/10A	4P,C TYPE,10KA,10A DC MINIATURE CIRCUIT BREAKER 1000V
	16	XKN10 DC 4P/16A	4P,C TYPE,10KA,16A DC MINIATURE CIRCUIT BREAKER 1000V
	20	XKN10 DC 4P/20A	4P,C TYPE,10KA,20A DC MINIATURE CIRCUIT BREAKER 1000V
	25	XKN10 DC 4P/25A	4P,C TYPE,10KA,25A DC MINIATURE CIRCUIT BREAKER 1000V
	32	XKN10 DC 4P/32A	4P,C TYPE,10KA,32A DC MINIATURE CIRCUIT BREAKER 1000V
	40	XKN10 DC 4P/40A	4P,C TYPE,10KA,40A DC MINIATURE CIRCUIT BREAKER 1000V
	50	XKN10 DC 4P/50A	4P,C TYPE,10KA,50A DC MINIATURE CIRCUIT BREAKER 1000V
	63	XKN10 DC 4P/63A	4P,C TYPE,10KA,63A DC MINIATURE CIRCUIT BREAKER 1000V

10 kA C Type DC Circuit Breaker (H Series)

Model	In (A)	Type Code	Explanation
1 Pole	80A	XKN10 DC 1P/80A	1P,C TYPE,10KA,80A DC MINIATURE CIRCUIT BREAKER 250V
	100A	XKN10 DC 1P/100A	1P,C TYPE,10KA,100A DC MINIATURE CIRCUIT BREAKER 250V
	125A	XKN10 DC 1P/125A	1P,C TYPE,10KA,125A DC MINIATURE CIRCUIT BREAKER 250V



2 Poles

80A	XKN10 DC 2P/80A	2P,C TYPE,10KA,80A DC MINIATURE CIRCUIT BREAKER 500V
100A	XKN10 DC 2P/100A	2P,C TYPE,10KA,100A DC MINIATURE CIRCUIT BREAKER 500V
125A	XKN10 DC 2P/125A	2P,C TYPE,10KA,125A DC MINIATURE CIRCUIT BREAKER 500V



4 Poles

80A	XKN10 DC 4P/80A	4P,C TYPE,10KA,80A DC MINIATURE CIRCUIT BREAKER 1000V
100A	XKN10 DC 4P/100A	4P,C TYPE,10KA,100A DC MINIATURE CIRCUIT BREAKER 1000V
125A	XKN10 DC 4P/125A	4P,C TYPE,10KA,125A DC MINIATURE CIRCUIT BREAKER 1000V



DC Auto Fuse Auxiliary Contact

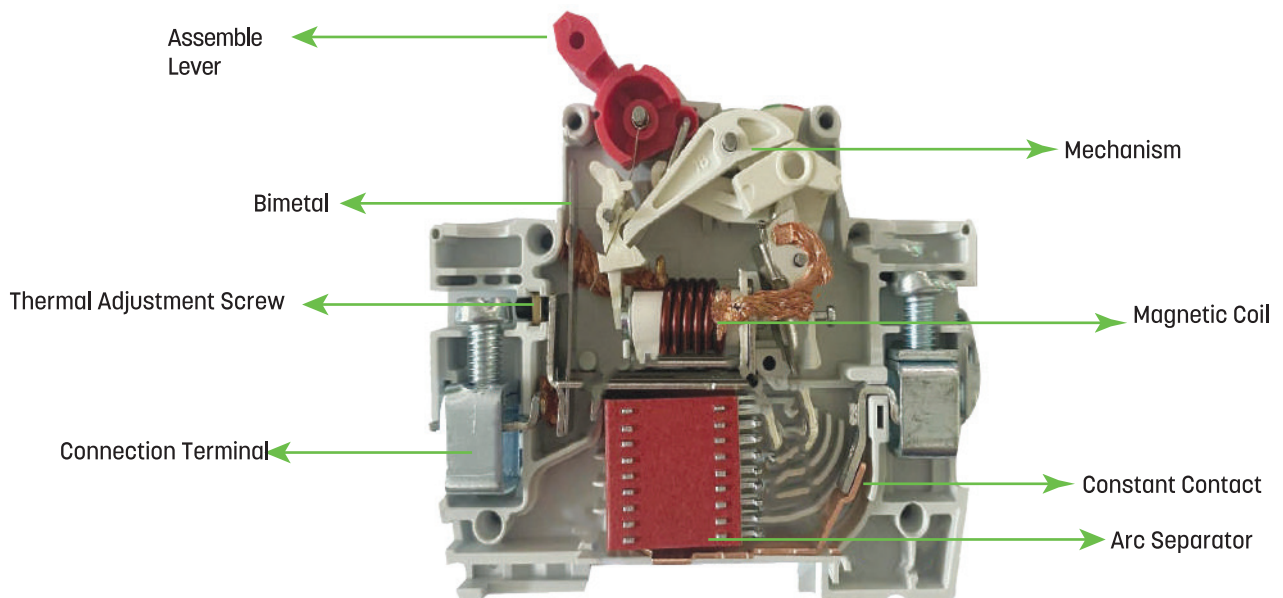
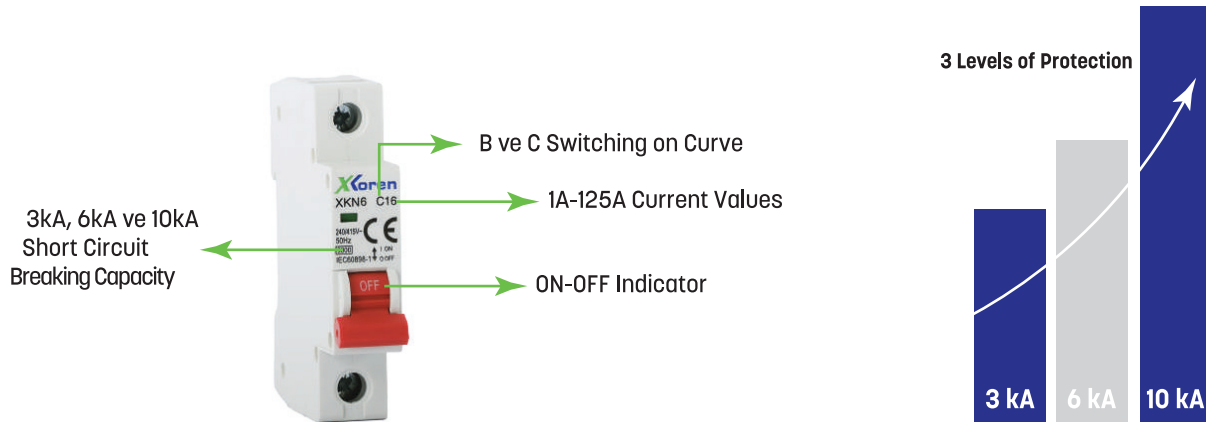


Model	Rated Operating Voltage (V)	Explanation
AC-XKN10 DC	1NO+1NC	DC AUXILIARY CONTACT (1NO+1NC)

XKoren Electric Automatic Fuses; are electromechanical devices that protect electrical circuits from over-currents and short circuit currents and also perform the function of Switching on and closing the circuit. When the current passing through the circuit exceeds a certain level for reasons, the tripping mechanism works automatically, cutting off the current in the circuit and preventing damage to the equipment which it is connected to and also prevent possible fire hazards.

Opreation Conditions

XKoren automatic fuses are designed to operate at altitudes not exceeding 2000 m at ambient emperatures between -25C and +55C, and overload releases are calibrated to 30C. It can withstand up to 95% relative humidity..



3kA, 6kA and 10kA type automatic fuses are selected according to breaking capacity; B, C and D type automatic fuses are selected according to their intended use and location.

They have 1, 2, 3, 4, 1P+N, 3P+N poles depending on their functions in the circuits in which they are used, ranging from 1A to 125A, depending on the currents passing through the circuit they are connected to.

XKoren Electric automatic fuses which are produced in accordance with IEC 60898-1 and TS EN 60898-1 norms; have a flame and burn resistant thermoplastic body and high quality contact mechanism.

Thanks to its current limiting feature, it cuts the expected short circuit current by 0.2 times, preventing the short circuit current from damaging the fuse mechanism and the system. In current limiting, the internal resistance of the fuse due to its contact structure and the Switching on time are the effective factors.

Type B fuses are generally used in lighting and socket protection where sudden over-currents do not occur, such as home lighting and electric heaters. They are manufactured to open in case of sudden short circuit currents occurring in the range of 3-5 times the fuse rated current. Type C fuses are used in circuits where sudden over-currents occur during switching, in the protection of products such as air conditioners and refrigerators, and in industrial panels. They are manufactured to trip in case of sudden short circuit currents occurring in the range of 5-10 times the fuse rated current

D type fuses are used only in industrial areas. It is used in businesses and devices where very high currents are drawn at the moment of activation, such as motors, spot machines, protection of steam lamps and welding machines.

With its fireproof thermoplastic body design, bimetal and contact quality, breaking capacities and different rated currents, its compact and aesthetic design provides distinction. XKoren Electric Automatic Fuses are TSE approved and have international quality certificates. Product quality is guaranteed as it is 100% domestic production.

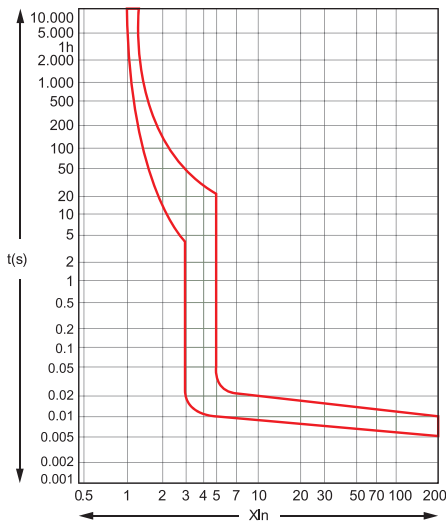
Immediate Switching Conditions

Immediate Switching Characteristic	Rated Current (In)	Test Current	Tripping on Time	Result
B	All	3 In	t ≥ 0.1 sn.	No Tripping on
B	All	5 In	t < 0.1 sn.	Tripping on
C	All	5 In	t ≥ 0.1 sn.	No Tripping on
C	All	10 In	t < 0.1 sn.	Tripping on
D	All	10 In	t ≥ 0.1 sn.	Tripping on
D	All	20 In	t < 0.1 sn.	Tripping on

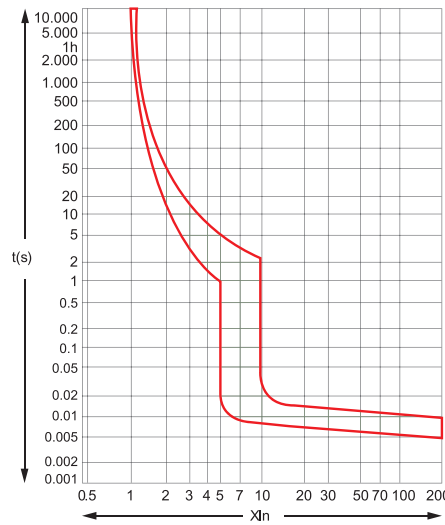
Thermal Switching Conditions

Rated Current (In)	Test Current	Tripping on Time	Result
In ≤ 63 A	1.13 In	t ≥ 1 hour	No Tripping on
In > 63 A	1.13 In	t ≥ 2 hours	No Tripping on
In ≤ 63 A	1.45 In	t < 1 hour	Tripping on
In > 63 A	1.45 In	t < 2 hours	Tripping on
In ≤ 32 A	2.55 In	1 sn. < t < 60 sec..	Tripping on
In > 32 A	2.55 In	1 sn. < t < 120 sec.	Tripping on

3 kA Miniature Circuit Breaker - Time Characteristics

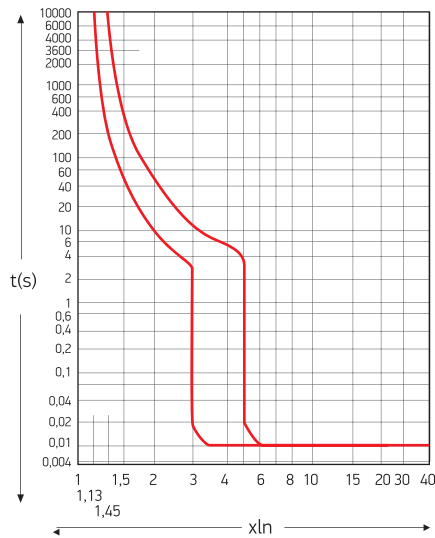


B Curve

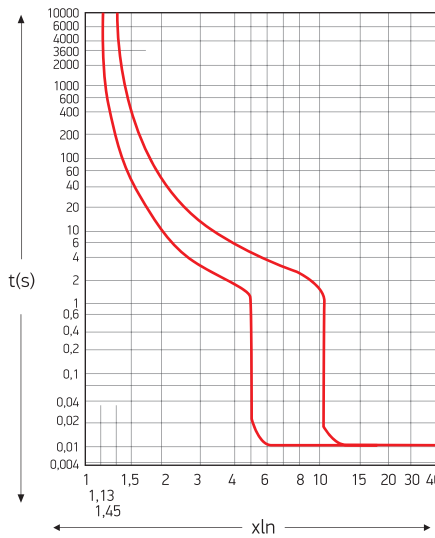


C Curve

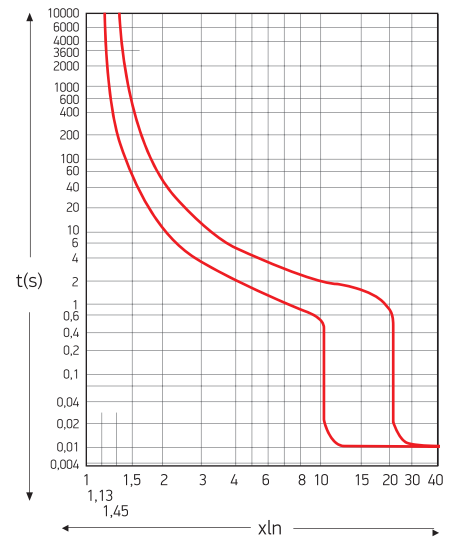
6 kA Miniature Circuit Breaker - Time Characteristics



B Curve

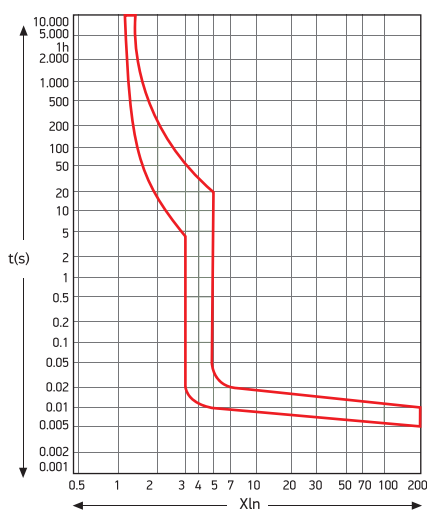


C Curve

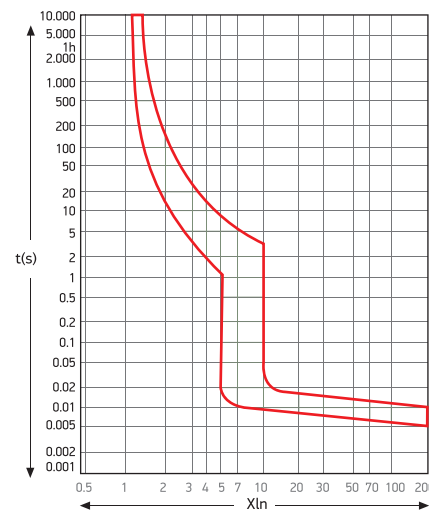


D Curve

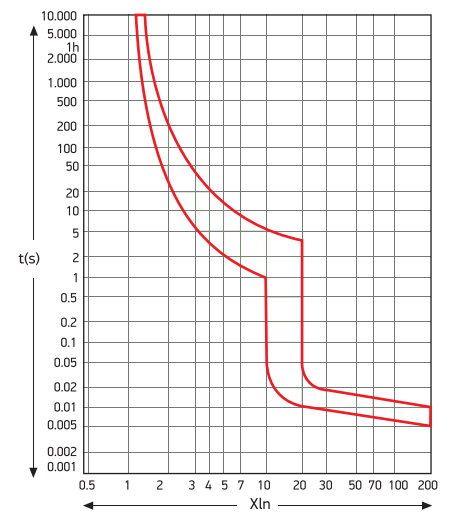
10 kA Miniature Circuit Breaker - Time Characteristics



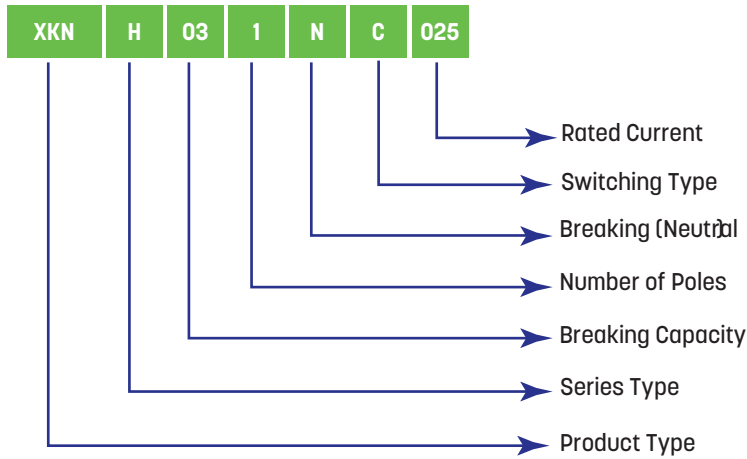
B Curve



C Curve

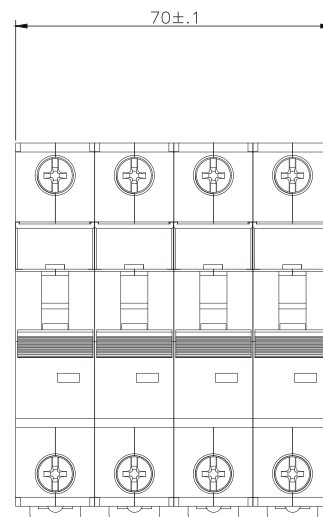
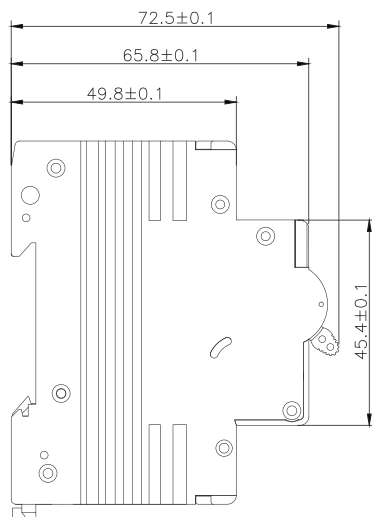
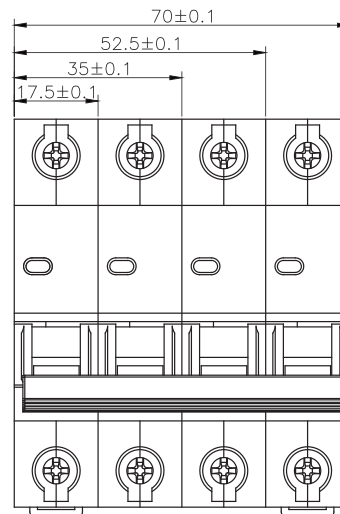
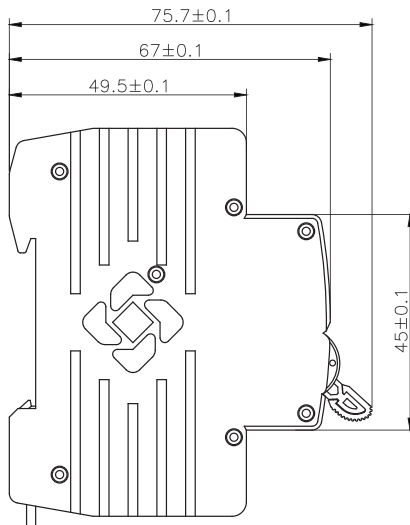
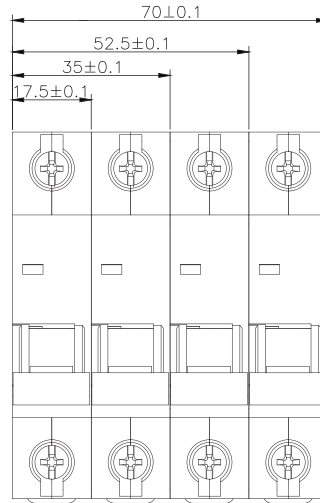
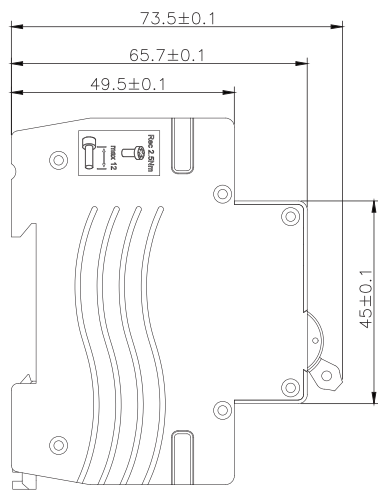


D Curve



AUTOMATIC FUSES	XKN	
	XKN3	XKN3 (H SERIES)
Protection	Protection against overload and short circuit currents	
Normal Operating Voltage	230V / 400V AC	230V / 400V AC
Rated Current A	1,2,3,4,6,10,16,20,25,32,40,50,63	80,100,125
Switching on Characteristic	B,C Curves	B,C Curves
Pole P	1,2,3,4	
Breaking Capacity kA	33	
Operating Frequency Hz	50 /60	
Rated Impulse Withstand Voltage kV	4	6
Standard	IEC EN 60898-1 - TS EN 60898-1	
Electrical Life op. 230V	4000	1500
Mechanical Life op.	20000	20000
Assembly	35mm DIN rail	35mm DIN rail
Connection Cable Cross-Section mm ²	1-25	25-50
Degree of Protection	IP 20	
Operating Ambient Temperature Range °C	-25...+55	
Storage Ambient Temperature Range °C	-40...+70	
Accessories	Auxiliary Contacts	✓
	Alarm Contact	✓
	Shunt Coil	✓
	Low Voltage Coil	✓

AUTOMATIC FUSES	XKN			
	XKN6	XKN6 (H SERIES)	XKN10	XKN10 (H SERIES)
Protection	Protection against overload and short circuit currentsP		rotection against overload and short circuit currents	
Normal Operating Voltage	230V / 400V AC	230V / 400V AC	230V / 400V AC	230V / 400V AC
Rated Current A	1,2,3,4,6,10,16,20,25,32,40,50,63	80,100,125	1,2,3,4,6,10,16,20,25,32,40,50,63	80,100,125
Switching on Characteristic	B,C Curves	B,C Curves	B,C Curves	B,C Curves
Pole P	1,2,3,4,1P+N,3P+N			
Breaking Capacity kA	66		10	10
Operating Frequency Hz	50 /60			
Rated Impulse Withstand Voltage kV	4	6	4	6
Standard	IEC EN 60898-1 - TS EN 60898-1			
Electrical Life op. 230V	4000	1500	4000	1500
Mechanical Life op.	20000			
Assembly	35mm DIN rail			
Connection Cable Cross-Section mm ²	1-25	25-50	1-25	25-50
Degree of Protection	IP 20		IP 20	
Operating Ambient Temperature Range °C	-25...+55		-25...+55	
Storage Ambient Temperature Range °C	-40...+70		-40...+70	
Accessories	Auxiliary Contacts	✓	✓	✓
	Alarm Contact	✓	✓	✓
	Shunt Coil	✓	✓	✓
	Low Voltage Coil	✓	✓	✓



XKR SERIES RESIDUAL CURRENT CIRCUIT BREAKERS



XKR3-AC 3kA 30mA (Electronic - AC Type)

Model	In (A)	I Δ n	Type Code	Explanation
2 Poles	25A	30mA	XKR3 2P-30/25A	2P,30mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR3 2P-30/32A	2P,30mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR3 2P-30/40A	2P,30mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR3 2P-30/63A	2P,30mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR3 2P-30/80A	2P,30mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR3 2P-30/100A	2P,30mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR3 2P-30/125A	2P,30mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	30mA	XKR3 4P-30/25A	4P,30mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR3 4P-30/32A	4P,30mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR3 4P-30/40A	4P,30mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR3 4P-30/63A	4P,30mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR3 4P-30/80A	4P,30mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR3 4P-30/100A	4P,300mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR3 4P-30/125A	4P,30mA,125A RESIDUAL CURRENT CIRCUIT BREAKER


XKR3-AC 3kA 300mA (Electronic - AC Type)

Model	In (A)	I Δ n	Type Code	Explanation
2 Poles	25A	300mA	XKR3 2P-300/25A	2P,300mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR3 2P-300/32A	2P,300mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR3 2P-300/40A	2P,300mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR3 2P-300/63A	2P,300mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR3 2P-300/80A	2P,300mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR3 2P-300/100A	2P,300mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR3 2P-300/125A	2P,300mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	300mA	XKR3 4P-300/25A	4P,300mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR3 4P-300/32A	4P,300mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR3 4P-300/40A	4P,300mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR3 4P-300/63A	4P,300mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR3 4P-300/80A	4P,300mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR3 4P-300/100A	4P,300mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR3 4P-300/125A	4P,300mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



XKR6-AC 6kA 30mA (AC Type)

Model	In (A)	I Δ n	Type Code	Explanation
2 Poles	25A	30mA	XKR6 2P-30/25A	2P,30mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR6 2P-30/32A	2P,30mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR6 2P-30/40A	2P,30mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR6 2P-30/63A	2P,30mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR6 2P-30/80A	2P,30mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR6 2P-30/100A	2P,30mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR6 2P-30/125A	2P,30mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	30mA	XKR6 4P-30/25A	4P,30mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR6 4P-30/32A	4P,30mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR6 4P-30/40A	4P,30mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR6 4P-30/63A	4P,30mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR6 4P-30/80A	4P,30mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR6 4P-30/100A	4P,30mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR6 4P-30/125A	4P,30mA,125A RESIDUAL CURRENT CIRCUIT BREAKER


XKR6-AC 6kA 300mA (AC Type)

Model	In (A)	I Δ n	Type Code	Explanation
2 Poles	25A	300mA	XKR6 2P-300/25A	2P,300mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR6 2P-300/32A	2P,300mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR6 2P-300/40A	2P,300mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR6 2P-300/63A	2P,300mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR6 2P-300/80A	2P,300mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR6 2P-300/100A	2P,300mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR6 2P-300/125A	2P,300mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	300mA	XKR6 4P-300/25A	4P,300mA,25A RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR6 4P-300/32A	4P,300mA,32A RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR6 4P-300/40A	4P,300mA,40A RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR6 4P-300/63A	4P,300mA,63A RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR6 4P-300/80A	4P,300mA,80A RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR6 4P-300/100A	4P,300mA,100A RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR6 4P-300/125A	4P,300mA,125A RESIDUAL CURRENT CIRCUIT BREAKER



XKR10-AC 10kA 30mA (AC Type)

Model	In (A)	IΔn	Type Code	Explanation
2 Poles				
	25A	30mA	XKR10-AC 2P-30/25A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR10-AC 2P-30/32A	2P 30mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR10-AC 2P-30/40A	2P 30mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR10-AC 2P-30/63A	2P 30mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR10-AC 2P-30/80A	2P 30mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR10-AC 2P-30/100A	2P 30mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR10-AC 2P-30/125A	2P 30mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER


4 Poles

	25A	30mA	XKR10-AC 4P-30/25A	4P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR10-AC 4P-30/32A	4P 30mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR10-AC 4P-30/40A	4P 30mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR10-AC 4P-30/63A	4P 30mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR10-AC 4P-30/80A	4P 30mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR10-AC 4P-30/100A	4P 30mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR10-AC 4P-30/125A	4P 30mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER


XKR10-AC 10kA 300mA (AC Type)

Model	In (A)	IΔn	Type Code	Explanation
2 Poles				
	25A	300mA	XKR10-AC 2P-300/25A	2P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR10-AC 2P-300/32A	2P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR10-AC 2P-300/40A	2P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR10-AC 2P-300/63A	2P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR10-AC 2P-300/80A	2P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR10-AC 2P-300/100A	2P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR10-AC 2P-300/125A	2P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER


4 Poles

	25A	300mA	XKR10-AC 4P-300/25A	4P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR10-AC 4P-300/32A	4P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR10-AC 4P-300/40A	4P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR10-AC 4P-300/63A	4P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR10-AC 4P-300/80A	4P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR10-AC 4P-300/100A	4P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR10-AC 4P-300/125A	4P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER



XKR10-A 10kA 30mA (A Type)

Model	In (A)	IΔn	Type Code	Explanation
2 Poles	25A	30mA	XKR10-A 2P-30/25A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR10-A 2P-30/32A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR10-A 2P-30/40A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR10-A 2P-30/63A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR10-A 2P-30/80A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR10-A 2P-30/100A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR10-A 2P-30/125A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	30mA	XKR10-A 4P-30/25A	4P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKR10-A 4P-30/32A	4P 30mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKR10-A 4P-30/40A	4P 30mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKR10-A 4P-30/63A	4P 30mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKR10-A 4P-30/80A	4P 30mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKR10-A 4P-30/100A	4P 30mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKR10-A 4P-30/125A	4P 30mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER



XKR10-A 10kA 300mA (A Type)


Model	In (A)	IΔn	Type Code	Explanation
2 Poles	25A	300mA	XKR10-A 2P-300/25A	2P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR10-A 2P-300/32A	2P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR10-A 2P-300/40A	2P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR10-A 2P-300/63A	2P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR10-A 2P-300/80A	2P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR10-A 2P-300/100A	2P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR10-A 2P-300/125A	2P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER



4 Poles	25A	300mA	XKR10-A 4P-300/25A	4P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKR10-A 4P-300/32A	4P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKR10-A 4P-300/40A	4P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKR10-A 4P-300/63A	4P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKR10-A 4P-300/80A	4P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKR10-A 4P-300/100A	4P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKR10-A 4P-300/125A	4P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER




XKRD10-AC+S 10kA 30mA (AC+S Type) [Delayed]

Model	In (A)	I n	Type Code	Explanation
2 Poles 	25A	30mA	XKRD10-AC+S 2P-30/25A	2P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	30mA	XKRD10-AC+S 2P-30/32A	2P 30mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	30mA	XKRD10-AC+S 2P-30/40A	2P 30mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	30mA	XKRD10-AC+S 2P-30/63A	2P 30mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	30mA	XKRD10-AC+S 2P-30/80A	2P 30mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	30mA	XKRD10-AC+S 2P-30/100A	2P 30mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	30mA	XKRD10-AC+S 2P-30/125A	2P 30mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER

4 Poles


25A	30mA	XKRD10-AC+S 4P-30/25A	4P 30mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
32A	30mA	XKRD10-AC+S 4P-30/32A	4P 30mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
40A	30mA	XKRD10-AC+S 4P-30/40A	4P 30mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
63A	30mA	XKRD10-AC+S 4P-30/63A	4P 30mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
80A	30mA	XKRD10-AC+S 4P-30/80A	4P 30mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
100A	30mA	XKRD10-AC+S 4P-30/100A	4P 30mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
125A	30mA	XKRD10-AC+S 4P-30/125A	4P 30mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER

XKRD10-AC+S 10kA 300mA (AC+S Type) [Delayed]

Model	In (A)	I n	Type Code	Explanation
2 Poles 	25A	300mA	XKRD10-AC+S 2P-300/25A	2P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	32A	300mA	XKRD10-AC+S 2P-300/32A	2P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	40A	300mA	XKRD10-AC+S 2P-300/40A	2P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	63A	300mA	XKRD10-AC+S 2P-300/63A	2P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	80A	300mA	XKRD10-AC+S 2P-300/80A	2P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	100A	300mA	XKRD10-AC+S 2P-300/100A	2P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
	125A	300mA	XKRD10-AC+S 2P-300/125A	2P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER

4 Poles


25A	300mA	XKRD10-AC+S 4P-300/25A	4P 300mA 25A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
32A	300mA	XKRD10-AC+S 4P-300/32A	4P 300mA 32A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
40A	300mA	XKRD10-AC+S 4P-300/40A	4P 300mA 40A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
63A	300mA	XKRD10-AC+S 4P-300/63A	4P 300mA 63A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
80A	300mA	XKRD10-AC+S 4P-300/80A	4P 300mA 80A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
100A	300mA	XKRD10-AC+S 4P-300/100A	4P 300mA 100A 10kA RESIDUAL CURRENT CIRCUIT BREAKER
125A	300mA	XKRD10-AC+S 4P-300/125A	4P 300mA 125A 10kA RESIDUAL CURRENT CIRCUIT BREAKER

XKoren Electric Residual Current Circuit Breaker are electromagnetic devices that provide protection by detecting the vectoral difference of currents passing through the phase and neutral conductors in the circuit by means of the current transformer inside and by cutting off the circuit when this difference current reaches a certain level.

A current of 30mA that passes through people through direct or indirect contact is a danger limit for life. Therefore the 30mA Residual current protection switch, also called "life protection", cuts off the circuit's energy if the Residual current approaches this value and ensures the safety of human life. Likewise, the 300mA Residual current protection switch, also called "Fire protection", provides safe protection by preventing the risk of melting, ignition and burning in normal wiring materials by breaking the circuit if the Residual current detected reaches this value.

In its selection; attention should be paid to the protection class, operating current, Residual current level and number of poles that the device is intended to protect depending on the system requirement. Since Residual current circuit breakers do not have protection functions against overload or short circuit currents, an automatic fuse must be connected in front of the circuit.

XKoren Electric Residual current protection switches, produced in the rated current range from 25 A to 125 A, are produced in accordance with IEC 61008-1 and TS EN 61008-1 norms, with 6kA and 10kA breaking capacity, 2 and 4 poles.

Residual current protection switches can trip after reaching 50% of the positive current (Residual current) value declared on them, in accordance with the standards. The natural Residual currents of the electrical devices in the circuit should be calculated and the sum of the natural Residual Currents should not exceed the nominal Residual current value of the switch (30/300 mA).

Rated current of Residual current protection switches must be equal to or greater than the rated current of the automatic fuse or compact circuit breaker connected before them. Care should be taken to ensure that the current passing through the residual current protection switch is not greater than the nominal rated current of the residual current protection switch.

For healthy operation, the neutral and ground lines must not come into contact with each other after the Residual current protection switch.

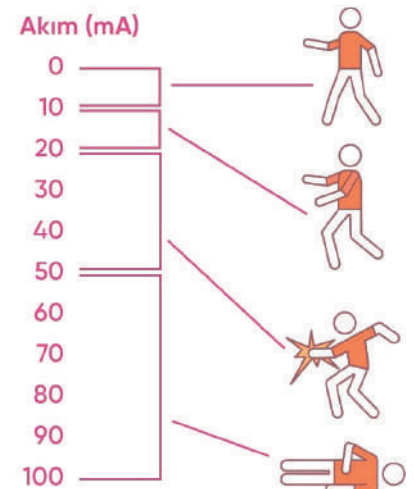
Effect of Residual Current on the Human Body

In accidents caused by electric current, the greatest impact is directly on the functioning of the nerves, muscles and heart. The severity

of this effect depends on the following factors::

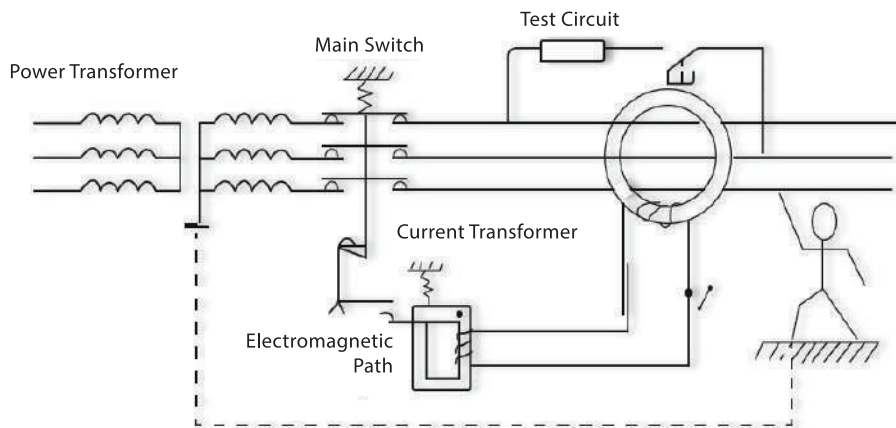
- 0.5 mA Feeling too weak
- 10 mA Muscle Contraction
- 30 mA Difficulty in Breathing
- 75 mA Muscle heart palpitation threshold
- 1A Cardiac arrest

Current Region	Current Intensity	Effect on the Human Body
1	0.01 mA	Limit of feeling the current, tingling sensation in the hand
2	5-15 mA	The ability to release the held object continues, there is mild pain in the hand and arm, and blood pressure decreases.
3	25-80 mA	At the tolerable current intensity, blood pressure rises, the heart starts to work irregularly, breathing becomes difficult, reversible cardiac arrest occurs, consciousness is generally maintained, some people faint after 50 mA.
	80-100 mA	Depending on the course of action of the current, fibrillation occurs in the heart, consciousness is lost, (fibrillation does not occur in electric shocks of shorter duration than 0.2 S).
4	>3-8 mA	Blood pressure rises, the heart stops, the lungs swell and consciousness is lost..



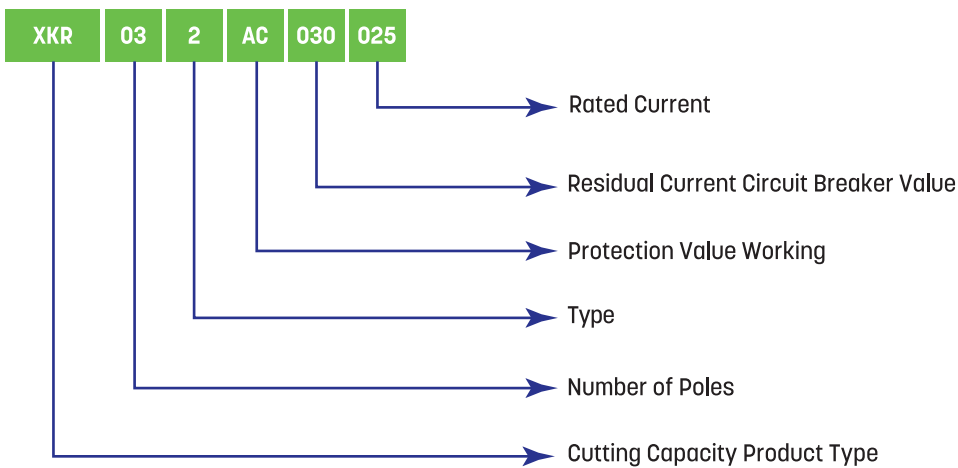
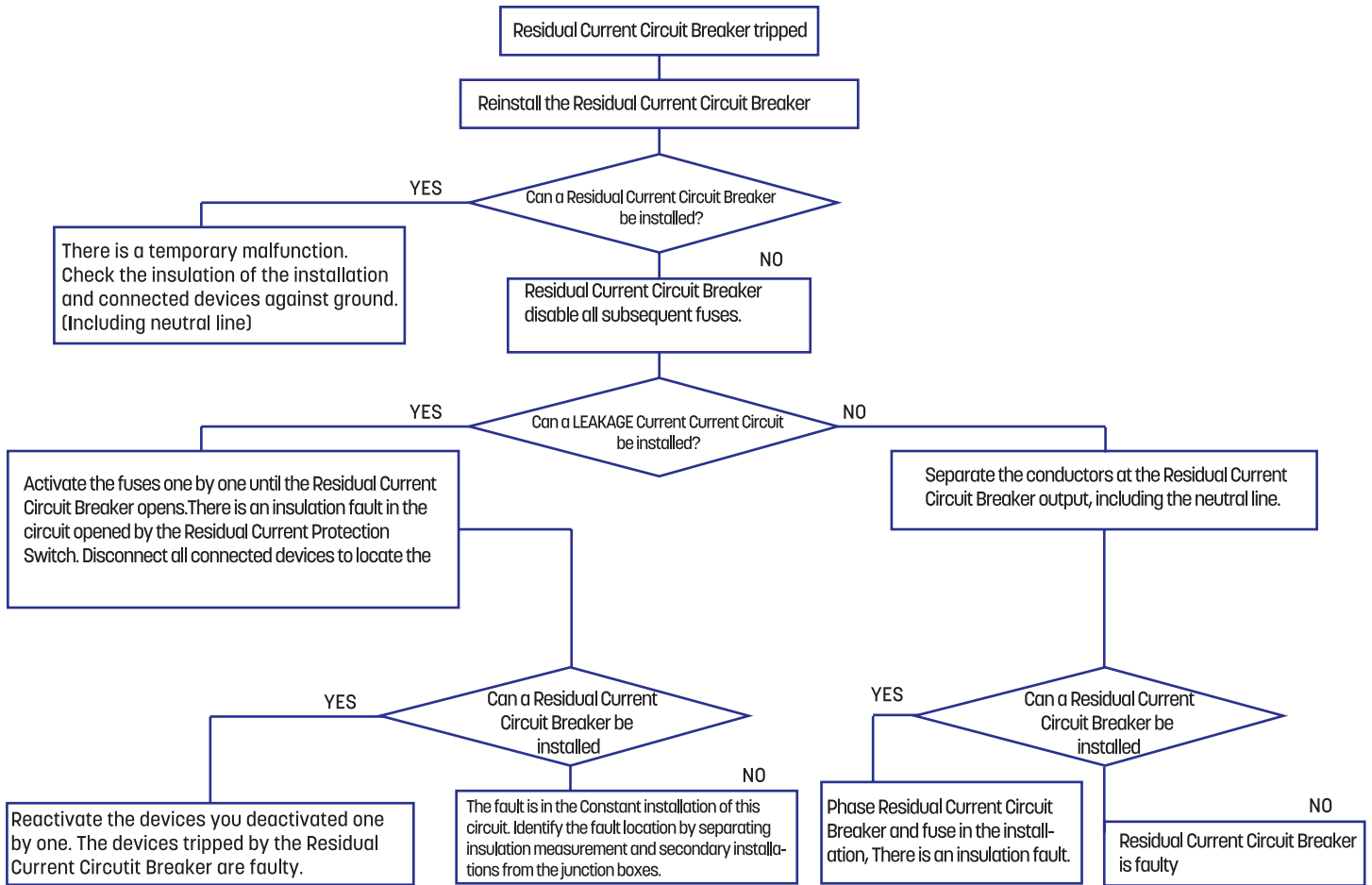
Points to Take Into Consideration When Using Residual Current Circuit Breaker

1. Each phase of the Residual Current Circuit Breaker must be protected by an automatic fuse.
2. The short circuit withstand current of Residual Current Circuit Breaker should not be lower than the expected short circuit current at the point where the switch is connected.
3. The nominal current of the Residual Current Protection Switch should not be less than the current passing through the circuit to which it is connected. Otherwise, the switch may be damaged due to overheating.
4. Residual Current Protection Circuit Breakers do not protect the system against short circuits. Therefore, protection devices such as automatic fuses must be used in the system against short circuit and overload currents.
5. In systems where Residual Current Protection Switch is used, grounding must be done. Additionally, the neutral and phase lines must be isolated and independent from the ground.
6. After the Residual Current Protection Switch is connected to the system, methods such as short-circuiting the outputs, which may damage the system and the switch, should never be used.
7. The neutral line along with the phases must be passed through the switch. Care should be taken to ensure that the input and output directions and the same input and output phases are connected.
8. When loads with a residual current of 30 mA or higher are connected to a residual current protection switch with a threshold value of 30 mA, which normally enters tripping mode after 15 mA, unwanted trips frequently occur in the system. Therefore, it is very important to make the selection by calculating the possible residual currents of all devices in the system.
9. They do not provide protection against ground fault or contact on the upper side of the connection point of the Residual Current Circuit Breaker, that is, up to the input side.



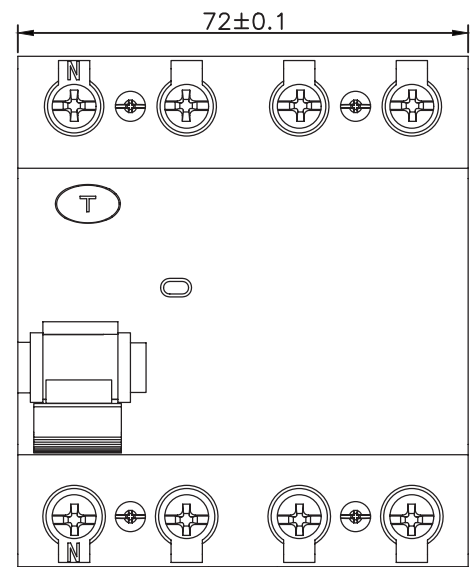
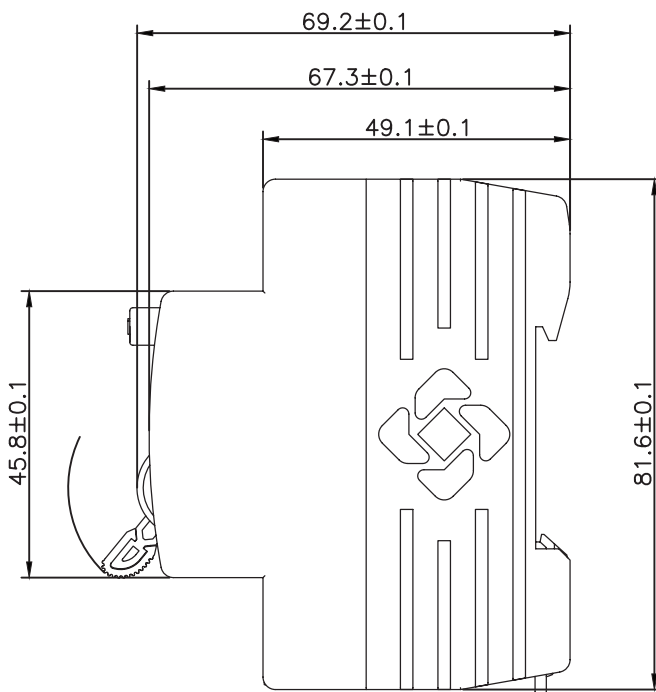
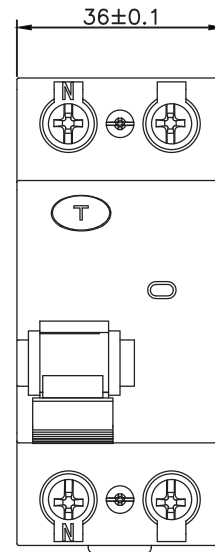
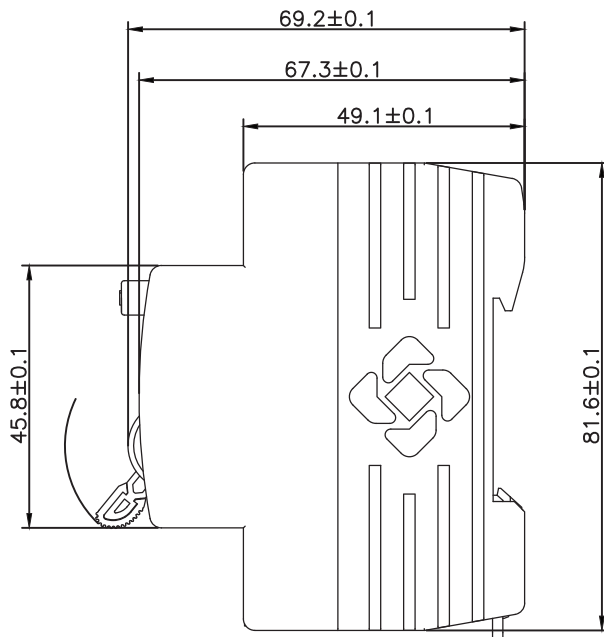
If the Residual current protection switch trips outside of the test application and cannot be reinstalled, the following procedures should be applied.

- *Disable all automatic fuses downstream of the residual current circuit breaker and reinstall the circuit breaker. If the residual current circuit breaker is tripping, activate the automatic fuses one by one until the Residual current protection switch is disabled. There is an insulation fault in the circuit opened by the residual current protection switch and it must be eliminated.
- *If the residual current circuit breaker still cannot be activated even though you have disabled all automatic fuses, disconnect all conductors, including the neutral, from the output of the residual current protection switch. If the residual current protection switch can be activated, there is an insulation fault in the distribution box where the residual current protection switch is located. If the residual current protection switch still cannot be activated even though you have disconnected all the conductors, the residual current protection switch is faulty.



RESIDUAL CURRENT PROTECTION SWITCHES	XKR	
	XKR6-AC	XKR10-AC
Protection	Life Protection, Fire Protection	
Rated Voltage	240V AC (1P+N), 240/415V (3P+N)	240V AC (1P+N), 240/415V (3P+N)
Rated Current A	25,32,40,63,80,100,125	25,32,40,63,80,100,125
Rated Residual Current (I Δ n)	30mA, 300mA (Not Adjustable)	30mA, 300mA (Not Adjustable)
Pole P	1P+N, 3P+N	1P+N, 3P+N
Residual Current Switching on Time	<0.1 second	<0.1 second
Standards	IEC EN 61008-1	
Trip Unit Type (Ground Fault)	Electromechanic	Electromechanic
Operating Frequency Hz	50 / 60	50 / 60
Short Circuit Breaking Capacity kA	6	10
Electrical Life op. 230V	4000	4000
Mechanical Life op.	20000	20000
Assembly	35mm DIN rail	35mm DIN rail
Working Class	AC	AC
Degree of Protection	IP 20	IP 20
Operating Ambient Temperature Range °C	-25....+55	-25....+55
Storage Ambient Temperature Range °C	-40....+70	-40....+70

RESIDUAL CURRENT PROTECTION SWITCHES	XKR	
	XKR10-A	XKRD10-AC+S
Protection	Life Protection, Fire Protection	
Rated Voltage	240V AC (1P+N), 240/415V (3P+N)	
Rated Current A	25,32,40,63,80,100,125	
Rated Residual Current (I Δ n)	30mA, 300mA (Not Adjustable)	
Pole	1P+N, 3P+N	
Residual Current Switching on Time	<0.1 second	(delayed) 0.13 saniye < _
Standards	IEC EN 61008-1	
Trip Unit Type (Ground Fault)	Elektromechanic	
Operating Frequency Hz	50 / 60	
Short Circuit Breaking Capacity kA	10	
Electrical Life op. 230V	4000	
Mechanical Life op.	20000	
Assembly	35mm DIN rail	
Working Class	A	AC+S
Degree of Protection	IP 20	
Operating Ambient Temperature Range	-25....+55	
Storage Ambient Temperature Range	-40....+70	



XCB - XFC SERIES THERMAL MAGNETIC COMPACT CIRCUIT BREAKERS



3 Pole Thermal Magnetic Fixed Type Compact Circuit Breakers (FF Type)

Model	Rated Current (A)	Thermal Setting Current (A)	Magnetic Tuning Current (A)	Cutting Capacity Icu (A)	Type Code	Explanation
XCB-103	16	Fixed	Fixed (10In)	50kA	XCB-103S-16S	XCB-103 16A Thermal Magnetic Fixed 50kA
XCB-103	20	Fixed	Fixed (10In)	50kA	XCB-103S-20S	XCB-103 20A Thermal Magnetic Fixed 50kA
XCB-103	25	Fixed	Fixed (10In)	50kA	XCB-103S-25S	XCB-103 25A Thermal Magnetic Fixed 50kA
XCB-103	32	Fixed	Fixed (10In)	50kA	XCB-103S-32S	XCB-103 32A Thermal Magnetic Fixed 50kA
XCB-103	40	Fixed	Fixed (10In)	50kA	XCB-103S-40S	XCB-103 40A Thermal Magnetic Fixed 50kA
XCB-103	50	Fixed	Fixed (10In)	50kA	XCB-103S-50S	XCB-103 50A Thermal Magnetic Fixed 50kA
XCB-103	63	Fixed	Fixed (10In)	50kA	XCB-103S-63S	XCB-103 63A Thermal Magnetic Fixed 50kA
XCB-103	80	Fixed	Fixed (10In)	50kA	XCB-103S-80S	XCB-103 80A Thermal Magnetic Fixed 50kA
XCB-103	100	Fixed	Fixed (10In)	50kA	XCB-103S-100S	XCB-103 100A Thermal Magnetic Fixed 50kA
XCB-103	125	Fixed	Fixed (10In)	50kA	XCB-103S-125S	XCB-103 125A Thermal Magnetic Fixed 50kA
XCB-103	160	Fixed	Fixed (10In)	50kA	XCB-103S-160S	XCB-103 160A Thermal Magnetic Fixed 50kA
XCB-253	200	Fixed	Fixed (10In)	50kA	XCB-253S-200S	XCB-253 200A Thermal Magnetic Fixed 50kA
XCB-253	250	Fixed	Fixed (10In)	50kA	XCB-253S-250S	XCB-253 250A Thermal Magnetic Fixed 50kA
XCB-403	300	Fixed	Fixed (10In)	70kA	XCB-403S-300S	XCB-403 300A Thermal Magnetic Fixed 70kA
XCB-403	400	Fixed	Fixed (10In)	70kA	XCB-403S-400S	XCB-403 400A Thermal Magnetic Fixed 70kA
XCB-633	500	Fixed	Fixed (10In)	70kA	XCB-633S-500S	XCB-633 500A Thermal Magnetic Adjustable 70kA
XCB-633	630	Fixed	Fixed (10In)	70kA	XCB-633S-630S	XCB-633 630A Thermal Magnetic Adjustable 70kA
XCB-803	800	Fixed	Fixed (10In)	70kA	XCB-803S-800S	XCB-803 800A Thermal Magnetic Adjustable 70kA
XCB-1603	1000	Fixed	Fixed (10In)	80kA	XCB-1003S-1000S	XCB-1603 1000A Thermal Magnetic Fixed 80kA
XCB-1603	1250	Fixed	Fixed (10In)	80kA	XCB-1253S-1250S	XCB-1603 1250A Thermal Magnetic Fixed 80kA
XCB-1603	1600	Fixed	Fixed (10In)	80kA	XCB-1603S-1600S	XCB-1603 1600A Thermal Magnetic Fixed 80kA

4 Pole Thermal Magnetic Fixed Type Compact Circuit Breakers (FF Type)

Model	Rated Current (A)	Thermal Setting (A)	Magnetic Tuning Current (A)	Cutting Capacity Icu (A)	Type Code	Explanation
XCB-104	16	Fixed	Fixed (10In)	50kA	XCB-104S-16S	XCB-104 16A Thermal Magnetic Fixed 50kA
XCB-104	20	Fixed	Fixed (10In)	50kA	XCB-104S-20S	XCB-104 20A Thermal Magnetic Fixed 50kA
XCB-104	25	Fixed	Fixed (10In)	50kA	XCB-104S-25S	XCB-104 25A Thermal Magnetic Fixed 50kA
XCB-104	32	Fixed	Fixed (10In)	50kA	XCB-104S-32S	XCB-104 32A Thermal Magnetic Fixed 50kA
XCB-104	40	Fixed	Fixed (10In)	50kA	XCB-104S-40S	XCB-104 40A Thermal Magnetic Fixed 50kA
XCB-104	50	Fixed	Fixed (10In)	50kA	XCB-104S-50S	XCB-104 50A Thermal Magnetic Fixed 50kA
XCB-104	63	Fixed	Fixed (10In)	50kA	XCB-104S-63S	XCB-104 63A Thermal Magnetic Fixed 50kA
XCB-104	80	Fixed	Fixed (10In)	50kA	XCB-104S-80S	XCB-104 80A Thermal Magnetic Fixed 50kA
XCB-104	100	Fixed	Fixed (10In)	50kA	XCB-104S-100S	XCB-104 100A Thermal Magnetic Fixed 50kA
XCB-104	125	Fixed	Fixed (10In)	50kA	XCB-104S-125S	XCB-104 125A Thermal Magnetic Fixed 50kA
XCB-104	160	Fixed	Fixed (10In)	50kA	XCB-104S-160S	XCB-104 160A Thermal Magnetic Fixed 50kA
XCB-254	200	Fixed	Fixed (10In)	50kA	XCB-254S-200S	XCB-254 200A Thermal Magnetic Fixed 50kA
XCB-254	250	Fixed	Fixed (10In)	50kA	XCB-254S-250S	XCB-254 250A Thermal Magnetic Fixed 50kA
XCB-404	300	Fixed	Fixed (10In)	70kA	XCB-404S-300S	XCB-404 300A Thermal Magnetic Fixed 70kA
XCB-404	400	Fixed	Fixed (10In)	70kA	XCB-404S-400S	XCB-404 400A Thermal Magnetic Fixed 70kA
XCB-634	500	Fixed	Fixed (10In)	70kA	XCB-634S-500S	XCB-634 500A Thermal Fixed Magnetic Adjustable 70kA
XCB-634	630	Fixed	Fixed (10In)	70kA	XCB-634S-630S	XCB-634 630A Thermal Fixed Magnetic Adjustable 70kA
XCB-804	800	Fixed	Fixed (10In)	70kA	XCB-804S-800S	XCB-804 800A Thermal Fixed Magnetic Adjustable 70kA
XCB-1604	1000	Fixed	Fixed (10In)	80kA	XCB-1004S-1000S	XCB-1604 1000A Thermal Magnetic Fixed 80kA
XCB-1604	1250	Fixed	Fixed (10In)	80kA	XCB-1254S-1250S	XCB-1604 1250A Thermal Magnetic Fixed 80kA
XCB-1604	1600	Fixed	Fixed (10In)	80kA	XCB-1604S-1600S	XCB-1604 1600A Thermal Magnetic Fixed 80kA



3 Pole Thermal Adjustable - Magnetic Fixed Compact Circuit Breakers (AF Type)

Model	Rated Current (A)	Thermal Setting Current (A)	Magnetic Tuning Current (A)	Cutting Capacity Icu (A)	Type Code	Explanation
XCB-103	16	11-16A	Fixed (10In)	25kA	XCB-103S-16A	XCB-103 16A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	20	14-20A	Fixed (10In)	25kA	XCB-103S-20A	XCB-103 20A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	25	17.5-25A	Fixed (10In)	25kA	XCB-103S-25A	XCB-103 25A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	32	22.5-32A	Fixed (10In)	25kA	XCB-103S-32A	XCB-103 32A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	40	28-40A	Fixed (10In)	25kA	XCB-103S-40A	XCB-103 40A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	50	35-50A	Fixed (10In)	25kA	XCB-103S-50A	XCB-103 50A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	63	44-63A	Fixed (10In)	25kA	XCB-103S-63A	XCB-103 63A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	80	56-80A	Fixed (10In)	25kA	XCB-103S-80A	XCB-103 80A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	100	70-100A	Fixed (10In)	25kA	XCB-103S-100A	XCB-103 100A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	125	87.5-125A	Fixed (10In)	25kA	XCB-103S-125A	XCB-103 125A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-103	160	112-160A	Fixed (10In)	25kA	XCB-103S-160A	XCB-103 160A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-253	200	140-200A	Fixed (10In)	25kA	XCB-253S-200A	XCB-253 200A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-253	250	175-250A	Fixed (10In)	25kA	XCB-253S-250A	XCB-253 250A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-403	300	210-300A	Fixed (10In)	35kA	XCB-253S-300A	XCB-403 300A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-403	400	280-400A	Fixed (10In)	35kA	XCB-633S-400A	XCB-403 400A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-633	500	350-500A	Fixed (10In)	35kA	XCB-633S-500A	XCB-633 500A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-633	630	441-630A	Fixed (10In)	35kA	XCB-633S-630A	XCB-633 630A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-803	800	560-800A	Fixed (10In)	35kA	XCB-803S-800A	XCB-803 800A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-1603	1000	400-1000A	Fixed (10In)	80kA	XCB-803S-1000A	XCB-1603 1000A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC
XCB-1603	1250	500-1250A	Fixed (10In)	80kA	XCB-1253S-1250A	XCB-1603 1250A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC
XCB-1603	1600	640-1600A	Fixed (10In)	80kA	XCB-1603S-1600A	XCB-1603 1600A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC

4 Pole Thermal Adjustable - Magnetic Fixed Compact Circuit Breakers (AF Type)

Model	Rated Current (A)	Thermal Setting Current (A)	Magnetic Tuning Current (A)	Cutting Capacity Icu (A)	Type Code	Explanation
XCB-104	16	11-16A	Fixed (10In)	25kA	XCB-104S-16A	XCB-104 16A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	20	14-20A	Fixed (10In)	25kA	XCB-104S-20A	XCB-104 20A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	25	17.5-25A	Fixed (10In)	25kA	XCB-104S-25A	XCB-104 25A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	32	22.5-32A	Fixed (10In)	25kA	XCB-104S-32A	XCB-104 32A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	40	28-40A	Fixed (10In)	25kA	XCB-104S-40A	XCB-104 40A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	50	35-50A	Fixed (10In)	25kA	XCB-104S-50A	XCB-104 50A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	63	44-63A	Fixed (10In)	25kA	XCB-104S-63A	XCB-104 63A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	80	56-80A	Fixed (10In)	25kA	XCB-104S-80A	XCB-104 80A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	100	70-100A	Fixed (10In)	25kA	XCB-104S-100A	XCB-104 100A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	125	87.5-125A	Fixed (10In)	25kA	XCB-104S-125A	XCB-104 125A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-104	160	112-160A	Fixed (10In)	25kA	XCB-104S-160A	XCB-104 160A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-254	200	140-200A	Fixed (10In)	25kA	XCB-254S-200A	XCB-254 200A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-254	250	175-250A	Fixed (10In)	25kA	XCB-254S-250A	XCB-254 250A THERMAL ADJUSTABLE, MAGNETIC FIXED 25kA
XCB-404	300	210-300A	Fixed (10In)	35kA	XCB-254S-300A	XCB-404 300A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-404	400	280-400A	Fixed (10In)	35kA	XCB-634S-400A	XCB-404 400A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-634	500	350-500A	Fixed (10In)	35kA	XCB-634S-500A	XCB-634 500A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-634	630	441-630A	Fixed (10In)	35kA	XCB-634S-630A	XCB-634 630A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA
XCB-804	800	320-800A	Fixed (10In)	35kA	XCB-804S-800A	XCB-804 800A THERMAL ADJUSTABLE, MAGNETIC FIXED 35kA ELECTRONIC
XCB-1604	1000	400-1000A	Fixed (10In)	80kA	XCB-804S-1000A	XCB-1604 1000A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC
XCB-1604	1250	500-1250A	Fixed (10In)	80kA	XCB-1254S-1250A	XCB-1604 1250A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC
XCB-1604	1600	640-1600A	Fixed (10In)	80kA	XCB-1604S-1600A	XCB-1604 1600A THERMAL ADJUSTABLE, MAGNETIC FIXED 80kA ELECTRONIC



Auxiliary Contact Block

Model	Related Switch	Asseembly	Type Code	Explanation
AX	XCB-103-104	R phase	AC 100L-S	AC 100L-S XCB FIXED SERIES AUXILIARY CONTACT
	XCB-253-254	R phase	AC 250L-S	AC 250L-S XCB FIXED SERIES AUXILIARY CONTACT
	XCB-403-404	R phase	AC 400L-S	AC 400L-SXCB FIXED SERIES AUXILIARY CONTACT
	XCB-633-634	R phase	AC 630L-S	AC 630L-S XCB FIXED SERIES AUXILIARY CONTACT
	XCB-603-804	R phase	AC 800L-S	AC 800L-S XCB FIXED SERIES AUXILIARY CONTACT
	XCB-1603-1604	T phase	AC 1600R-S	AC 1600R-S XCB FIXED SERIES AUXILIARY CONTACT

Alarm Contact

Model	Related Switch	Assembly	Type Code	Explanation
AL	XCB-103-104	R phase	AL 100L-S	AL 100L-S XCB FIXED SERIES ALARM CONTACT
	XCB-253-254	R phase	AL 250L-S	AL 250L-S XCB FIXED SERIES ALARM CONTACT
	XCB-403-404	R phase	AL 400L-S	AL 400L-S XCB FIXED SERIES ALARM CONTACT
	XCB-633-634	R phase	AL 630L-S	AL 630L-S XCB FIXED SERIES ALARM CONTACT
	XCB-803-804	R phase	AL 800L-S	AL 800L-S XCB FIXED SERIES ALARM CONTACT
	XCB-1603-1604	T phase	AL 1600R-S	AL 1600R-S XCB FIXED SERIES ALARM CONTACT

Shunt Trip

Model	Related Switch	Type Code	Explanation
SHT	XCB-103-104	NC 100-S	NC 100-S XCB FIXED SERIES SHUNT TRIP
	XCB-253-254	NC 250-S	NC 250-S XCB FIXED SERIES SHUNT TRIP
	XCB-403-404	NC 400-S	NC 400-S XCB FIXED SERIES SHUNT TRIP
	XCB-633-634	NC 630-S	NC 630-S XCB FIXED SERIES SHUNT TRIP
	XCB-803-804	NC 800-S	NC 800-S XCB FIXED SERIES SHUNT TRIP
	XCB-1603-1604	NC 1600-S	NC 1600-S XCB FIXED SERIES SHUNT TRIP

Under Voltage Coil

Model	Related Switch	Type Code	Explanation
UVR	XCB-103-104	LV 100-S	LV 100-S XCB FIXED SERIES UNDER VOLTAGE COIL
	XCB-253-254	LV 250-S	LV 250-S XCB FIXED SERIES UNDER VOLTAGE COIL
	XCB-403-404	LV 400-S	LV 400-S XCB FIXED SERIES UNDER VOLTAGE COIL
	XCB-633-634	LV 630-S	LV 630-S XCB FIXED SERIES UNDER VOLTAGE COIL
	XCB-803-804	LV 800-S	LV 800-S XCB FIXED SERIES UNDER VOLTAGE COIL
	XCB-1603-1604	LV 1600-S	LV 1600-S XCB FIXED SERIES UNDER VOLTAGE COIL

Rotary Assemble Handle

Model	Related Switch	Type Code	Explanation
SH	XCB-103-104	SH 100-S	SH 100-S FIXED SERIES COMPACT CROSSING HANDLE
	XCB-253-254	SH 250-S	SH 250-S FIXED SERIES COMPACT CROSSING HANDLE
	XCB-403-404	SH 400-S	SH 400-S FIXED SERIES COMPACT CROSSING HANDLE
	XCB-633-634	SH 630-S	SH 630-S FIXED SERIES COMPACT CROSSING HANDLE
	XCB-803-804	SH 800-S	SH 800-S FIXED SERIES COMPACT CROSSING HANDLE
	XCB-1603-1604	SH 1600-S	SH 1600-S FIXED SERIES COMPACT CROSSING HANDLE

Extension Type Rotary Assemble Handle

Model	Related Switch	Type Code	Explanation
ESH	XCB-103-104	ESH 100-S	ESH 100-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-253-254	ESH 250-S	ESH 250-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-403-404	ESH 400-S	ESH 400-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-633-634	ESH 630-S	ESH 630-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-803-804	ESH 800-S	ESH 800-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-1603-1604	ESH 1600-S	ESH 1600-S FIXED SERIES COMPACT EXTENSION TYPE CROSSING HANDLE

Motor Mechanism

Model	Rated Operating Voltage (VAC)	Related Switch	Type Code	Explanation
MOT-S1	220 -240	XCB-103-104	MOT 100-S	MOT 100-S FIXED SERIES COMPACT MOTOR MECHANISM
MOT-S2	220 -240	XCB-253-254	MOT 250-S	MOT 250-S FIXED SERIES COMPACT MOTOR MECHANISM
MOT-S3	220 -240	XCB-403-404	MOT 400-S	MOT 400-S FIXED SERIES COMPACT MOTOR MECHANISM
MOT-S4	220 -240	XCB-633-634	MOT 630-S	MOT 630-S FIXED SERIES COMPACT MOTOR MECHANISM
MOT-S5	220 -240	XCB-803-804	MOT 800-S	MOT 800-S FIXED SERIES COMPACT MOTOR MECHANISM
MOT-S6	220 -240	XCB-1603-1604	MOT 1600-S	MOT 1600-S FIXED SERIES COMPACT MOTOR MECHANISM

Mechanical Locking

Model	Related Switch	Type Code	Explanation
XML	XCB-103	XML 100 3-S	XML 100 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-253	XML 250 3-S	XML 250 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-403	XML 400 3-S	XML 400 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-633	XML 630 3-S	XML 630 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-803	XML 800 3-S	XML 800 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-1603	XML 1600 3-S	XML 1600 3-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-104	XML 100 4-S	XML 100 4-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-254	XML 250 4-S	XML 250 4-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-404	XML 400 4-S	XML 400 4-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-634	XML 630 4-S	XML 630 4-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-804	XML 800 4-S	XML 800 4-S FIXED SERIES COMPACT MECHANICAL LOCKING
	XCB-1604	XML 1600 4-S	XML 1600 4-S FIXED SERIES COMPACT MECHANICAL LOCKING

Lock for Rotary Handle

Model	Related Switch	Type Code	Explanation
SHL	XCB-103-104	SHL 100-S	SHL 100-S FIXED SERIES COMPACT CROSSING HANDLE LOCK
	XCB-253-254	SHL 250-S	SHL 250-S FIXED SERIES COMPACT CROSSING HANDLE LOCK
	XCB-403-404	SHL 400-S	SHL 400-S FIXED SERIES COMPACT CROSSING HANDLE LOCK
	XCB-633-634	SHL 630-S	SHL 630-S FIXED SERIES COMPACT CROSSING HANDLE LOCK
	XCB-803-804	SHL 800-S	SHL 800-S FIXED SERIES COMPACT CROSSING HANDLE LOCK
	XCB-1603-1604	SHL 1600-S	SHL 1600-S FIXED SERIES COMPACT CROSSING HANDLE LOCK

Extension Busbar

Model	Related Switch	Type Code	Explanation
BUSB	XCB-403	BUSB-400S/3P-S	BUSB-400S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-633	BUSB-630S/3P-S	BUSB-630S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-803	BUSB-800S/3P-S	BUSB-800S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1603	BUSB-1000S/3P-S	BUSB-1000S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1603	BUSB-1250S/3P-S	BUSB-1250S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1603	BUSB-1600S/3P-S	BUSB-1600S/3P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-404	BUSB-400S/4P-S	BUSB-400S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-634	BUSB-630S/4P-S	BUSB-630S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-804	BUSB-800S/4P-S	BUSB-800S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1604	BUSB-1000S/4P-S	BUSB-1000S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1604	BUSB-1250S/4P-S	BUSB-1250S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR
	XCB-1604	BUSB-1600S/4P-S	BUSB-1600S/4P-S FIXED SERIES COMPACT ASSEMBLY BAR

Auxiliary Contact Block

Model	Related Switch	Assemble	Type Code	Explanation
AX	XCB-103-104	R phase	AC 100L-A	LEFT MOUNTED AUXILIARY CONTACT BLOCK FOR XCB 100A CASE
	XCB-253-254	R phase	AC 250L-A	LEFT MOUNTED AUXILIARY CONTACT BLOCK FOR XCB 250A CASE
	XCB-633-634	R phase	AC 630L-A	LEFT MOUNTED AUXILIARY CONTACT BLOCK FOR XCB 630A CASE
	XCB-603-804	R phase	AC 800L-A	LEFT MOUNTED AUXILIARY CONTACT BLOCK FOR XCB 800A CASE
	XCB-1603-1604	T phase	AC 1600R-A	RIGHT MOUNTED SHEET MOUNT AUXILIARY CONTACT BLOCK FOR XCB 1250A-1600A CASE

Alarm Contact

Model	Related Switch	Assemble	Type Code	Explanation
AL	XCB-103-104	R phase	AL 100L-A	LEFT MOUNTED ALARM CONTACT FOR XCB 100A CASE
	XCB-253-254	R phase	AL 250L-A	LEFT MOUNTED ALARM CONTACT FOR XCB 250A CASE
	XCB-633-634	R phase	AL 630L-A	LEFT MOUNTED ALARM CONTACT FOR XCB 630A CASE
	XCB-603-804	R phase	AL 800L-A	LEFT MOUNTED ALARM CONTACT FOR XCB 800A CASE
	XCB-1603-1604	T phase	AL 1600R-A	RIGHT MOUNTED ALARM CONTACT FOR XCB 1250A-1600A CASE

Shunt Trip

Model	Rated Operating Voltage (VAC)	Related Switch	Type Code	Explanation
SHT	220VAC	XCB-103-104	NC 100-A	XCB 100A ADJUSTABLE SERIES COMPACT SHUNT TRIP
	220VAC	XCB-253-254	NC 250-A	XCB 250A ADJUSTABLE SERIES COMPACT SHUNT TRIP
	220VAC	XCB-633-634	NC 630-A	XCB 630A ADJUSTABLE SERIES COMPACT SHUNT TRIP
	220VAC	XCB-603-804	NC 800-A	XCB 800A ADJUSTABLE SERIES COMPACT SHUNT TRIP
	220VAC	XCB-1603-1604	NC 1600-A	XCB 1250A-1600A ADJUSTABLE SERIES COMPACT SHUNT TRIP

Under Voltage Coil

Model	Rated Operating Voltage (VAC)	Related Switch	Type Code	Explanation
UVR	220VAC	XCB-103-104	LV 100-A	XCB 100A ADJUSTABLE SERIES COMPACT UNDER VOLTAGE COIL
	220VAC	XCB-253-254	LV 250-A	XCB 250A ADJUSTABLE SERIES COMPACT UNDER VOLTAGE COIL
	220VAC	XCB-633-634	LV 630-A	XCB 630A ADJUSTABLE SERIES COMPACT UNDER VOLTAGE COIL
	220VAC	XCB-603-804	LV 800-A	XCB 800A ADJUSTABLE SERIES COMPACT UNDER VOLTAGE COIL
	220VAC	XCB-1603-1604	LV 1600-A	XCB 1250A-1600A ADJUSTABLE SERIES COMPACT UNDER VOLTAGE COIL

Rotating Assemble Handle

Model	Related Switch	Type Code	Explanation
SH	XCB-103-104	SH 100-A	XCB 100A ADJUSTABLE SERIES COMPACT BAR PROTECTION
	XCB-253-254	SH 250-A	XCB 250A ADJUSTABLE SERIES COMPACT BAR PROTECTION
	XCB-633-634	SH 630-A	XCB 630A ADJUSTABLE SERIES COMPACT BAR PROTECTION
	XCB-803-804	SH 800-A	XCB 800A ADJUSTABLE SERIES COMPACT BAR PROTECTION
	XCB-1603-1604	SH 1600-A	XCB 1250A-1600A ADJUSTABLE SERIES COMPACT BAR PROTECTION

Extension Type Assemble Handle

Model	Related Switch	Type Code	Explanation
ESH	XCB-103-104	ESH 100-A	XCB 100A ADJUSTABLE SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-253-254	ESH 250-A	XCB 250A ADJUSTABLE SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-633-634	ESH 630-A	XCB 630A ADJUSTABLE SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-803-804	ESH 800-A	XCB 800A ADJUSTABLE SERIES COMPACT EXTENSION TYPE CROSSING HANDLE
	XCB-1603-1604	ESH 1600-A	XCB 1250A-1600A ADJUSTABLE SERIES COMPACT EXTENSION TYPE CROSSING HANDLE

Motor Mechanism

Model	Rated Operating Voltage (VAC)	Related Switch	Type Code	Explanation
MOT 100-A	220 -240 VAC	XCB-103-104	MOT 100-A	XCB 100A ADJUSTABLE SERIES COMPACT MOTOR MECHANISM
MOT 250-A	220 -240 VAC	XCB-253-254	MOT 250-A	XCB 250A ADJUSTABLE SERIES COMPACT MOTOR MECHANISM
MOT 630-A	220 -240 VAC	XCB-633-634	MOT 630-A	XCB 630AADJUSTABLE SERIES COMPACT MOTOR MECHANISM
MOT 800-A	220 -240 VAC	XCB-803-804	MOT 800-A	XCB 800A ADJUSTABLE SERIES COMPACT MOTOR MECHANISM
MOT 1600-A	220 -240 VAC	XCB-1603-1604	MOT 1600-A	XCB 1250A-1600AADJUSTABLE SERIES COMPACT MOTOR MECHANISM

Mechanical Locking

Model	Related Switch	Type Code	Explanation
XML	XCB-103	XML 100 3-A	XCB 100A 3 POLE COMPACT MECHANICAL LOCKING
	XCB-253	XML 250 3-A	XCB 250A 3POLE COMPACT MECHANICAL LOCKING
	XCB-633	XML 630 3-A	XCB 630A 3 POLE COMPACT MECHANICAL LOCKING
	XCB-803	XML 800 3-A	XCB 800A 3 POLE COMPACT MECHANICAL LOCKING
	XCB-1603	XML 1600 3-A	XCB 1250A-1600A 3 POLE COMPACT MECHANICAL LOCKING
	XCB-104	XML 100 4-A	XCB 100A 4 POLE COMPACT MECHANICAL LOCKING
	XCB-254	XML 250 4-A	XCB 250A 4 POLE COMPACT MECHANICAL LOCKING
	XCB-634	XML 630 4-A	XCB 630A 4 POLE COMPACT MECHANICAL LOCKING
	XCB-804	XML 800 4-A	XCB 800A 4 POLE COMPACT MECHANICAL LOCKING
	XCB-1604	XML 1600 4-A	XCB 1250A-1600A 4 POLE COMPACT MECHANICAL LOCKING

Assemble Handle Lock

Model	Related Switch	Type Code	Explanation
SHL	XCB-103-104	SHL 100-A	XCB 100A COMPACT CROSSING HANDLE LOCK WITH ADJUSTABLE SERIES
	XCB-253-254	SHL 250-A	XCB 250ACOMPACT CROSSING HANDLE LOCK WITH ADJUSTABLE SERIES
	XCB-633-634	SHL 630-A	XCB 630A COMPACT CROSSING HANDLE LOCK WITH ADJUSTABLE SERIES
	XCB-803-804	SHL 800-A	XCB 800A COMPACT CROSSING HANDLE LOCK WITH ADJUSTABLE SERIES
	XCB-1603-1604	SHL 1600-A	XCB 1250A-1600A COMPACT CROSSING HANDLE LOCK WITH ADJUSTABLE SERIES

Extension Busbar

Model	Related Switch	Type Code	Explanation
BUSB	XCB-633	BUSB-630A/3P-A	3 POLE, XCB630A ADJUSTABLE SERIES COMPACT ASSEMBLY BAR
	XCB-803	BUSB-800A/3P-A	3 POLE, XCB800A ADJUSTABLE SERIES COMPACT ASSEMBLY BAR
	XCB-1603	BUSB-1250A/3P-A	3 POLE, XCB1250A ADJUSTABLE SERIES COMPACT ASSEMBLY BAR
	XCB-1603	BUSB-1600A/3P-A	3 POLE, XCB1600AADJUSTABLE SERIES COMPACT ASSEMBLY BAR

4 Pole Residual Current Protected Compact Switches (Without Trip Coil)

Model	In (A)	Thermal A. Current (A)	Magnetic A. Current (A)	In	Breaking Capacity Icu (kA)	Type Code	Explanation
XFC-104	16A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/16A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (16A)
	20A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/20A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (20A)
	25A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/25A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (25A)
	32A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/32A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (23A)
	40A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/40A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (40A)
	50A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/50A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (50A)
	63A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/63A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (63A)
	80A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/80A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (80A)
	100A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/100A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (100A)
	125A	Fixed	10In	100/300/500mA	70kA	XFC-100-4P/125A	4KTP,,35KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (125A)
XFC-254	160A	Fixed	10In	100/300/500mA	70kA	XFC-250-4P/160A	4KTP,,50KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (160A)
	200A	Fixed	10In	100/300/500mA	70kA	XFC-250-4P/200A	4KTP,,50KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (200A)
	250A	Fixed	10In	100/300/500mA	70kA	XFC-250-4P/250A	4KTP,,50KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (250A)
XFC-404	300A	Fixed	10In	100/300/500mA	70kA	XFC-400-4P/300A	4KTP,,70KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (300A)
	350A	Fixed	10In	100/300/500mA	70kA	XFC-400-4P/350A	4KTP,,70KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (350A)
	400A	Fixed	10In	100/300/500mA	70kA	XFC-400-4P/400A	4KTP,,70KA T/M WITHOUT SHUNT COIL RESIDUAL CURRENT CIRCUIT BREAKER . (400A)

4 Pole Residual Current Protected Compact Switches (With Trip Coil)

Model	In (A)	Thermal A. Current (A)	Magnetic A. Current (A)	In	Breaking Capacity Icu (kA)	Type Code	Explanation
XFC-104 Açtırma Bobinli	16A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/16A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (16A) WITH COIL
	20A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/20A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (20A) WITH COIL
	25A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/25A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (25A) WITH COIL
	32A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/32A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (32A) WITH COIL
	40A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/40A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (40A) WITH COIL
	50A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/50A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (50A) WITH COIL
	63A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/63A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (63A) WITH COIL
	80A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/80A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (80A) WITH COIL
	100A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/100A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (100A) WITH COIL
	125A	Fixed	10In	100/300/500mA	70kA	XFCB-100-4P/125A	4KTP,,35KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION (125A) WITH COIL
XFC-254 Açtırma Bobinli	160A	Fixed	10In	100/300/500mA	70kA	XFCB-250-4P/160A	4KTP,,50KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION (160A) WITH COIL
	200A	Fixed	10In	100/300/500mA	70kA	XFCB-250-4P/200A	4KTP,,50KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION (200A) WITH COIL
	250A	Fixed	10In	100/300/500mA	70kA	XFCB-250-4P/250A	4KTP,,50KA T/M TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION (250A) WITH COIL
XFC-404 Açtırma Bobinli	300A	Fixed	10In	100/300/500mA	70kA	XFCB-400-4P/300A	4KTP,,70KATRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (300A) WITH COIL
	350A	Fixed	10In	100/300/500mA	70kA	XFCB-400-4P/350A	4KTP,,70KA TRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTION. (350A) WITH COIL
	400A	Fixed	10In	100/300/500mA	70kA	XFCB-400-4P/400A	4KTP,,70KATRIP COIL COMPACT SWITCH WITH LEAKAGE PROTECTIONR. (400A) WITH COIL



Residual Current Protection Auxiliary Contact Block

Model	Type Code	Explanation
AX	AC-F 100	XFC/XFCB100A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK
	AC-F 250	XFC/XFCB250A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK
	AC-F 400	XFC/XFCB400A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK

Residual Current Protection Alarm Contact

Model	Type Code	Explanation
AL	AL-F 100	XFC/XFCB100A LEAKAGE CURRENT ALARAM CONTACT
	AL-F 250	XFC/XFCB250A LEAKAGE CURRENT ALARAM CONTACT
	AL-F 400	XFC/XFCB400A LEAKAGE CURRENT ALARAM CONTACT

Residual Current Protection Trip Coil

Model	Type Code	Explanation
SHT	NC-F 100	XFC/XFCB100A LEAK CURRENT PROTECTION TRIP COIL
	NC-F 250	XFC/XFCB250A LEAK CURRENT PROTECTION TRIP COIL
	NC-F 400	XFC/XFCB400A LEAK CURRENT PROTECTION TRIP COIL

Low Voltage Coil

Model	Type Code	Explanation
UVR	LV-F 100	XFC/XFCB100A LEAK CURRENT PROTECTION MOTOR MECHANISM
	LV-F 250	XFC/XFCB250A LEAK CURRENT PROTECTION MOTOR MECHANISM
	LV-F 400	XFC/XFCB400A LEAK CURRENT PROTECTION MOTOR MECHANISM

Residual Current Protection Auxiliary Contact Block

Model	Type Code	Explanation
AX	AC-F 100	XFC/XFCB100A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK
	AC-F 250	XFC/XFCB250A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK
	AC-F 400	XFC/XFCB400A LEAKAGE CURRENT AUXILIARY CONTACT BLOCK

Residual Current Protection Alarm Contact

Model	Type Code	Explanation
AL	AL-F 100	XFC/XFCB100A LEAKAGE CURRENT ALARM CONTACT
	AL-F 250	XFC/XFCB250A LEAKAGE CURRENT ALARM CONTACT
	AL-F 400	XFC/XFCB400A LEAKAGE CURRENT ALARM CONTACT

Residual Current Protection Shunt Trip

Model	Type Code	Explanation
SHT	NC-F 100	XFC/XFCB100A LEAK CURRENT PROTECTION TRIP COIL
	NC-F 250	XFC/XFCB250A LEAK CURRENT PROTECTION TRIP COIL
	NC-F 400	XFC/XFCB400A LEAK CURRENT PROTECTION TRIP COIL

Under Voltage Coil

Model	Type Code	Explanation
UVR	LV-F 100	XFC/XFCB100A LEAK CURRENT PROTECTION MOTOR MECHANISM
	LV-F 250	XFC/XFCB250A LEAK CURRENT PROTECTION MOTOR MECHANISM
	LV-F 400	XFC/XFCB400ALEAK CURRENT PROTECTION MOTOR MECHANISM

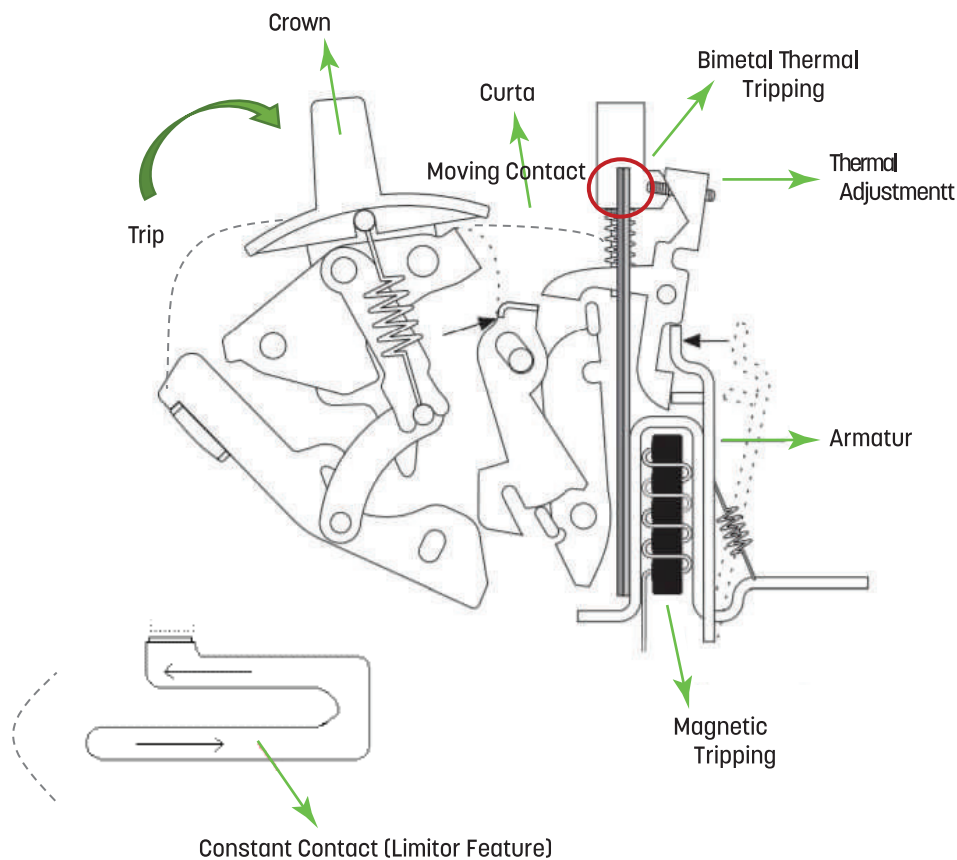
It protects electrical circuits and their system from overload, short circuit and other electrical faults. It is a basic safety mechanism of electrical systems. Compact switches include the use of both thermal and magnetic trip elements. While the thermal tripping mechanism provides protection against overloads caused by excessive current, the magnetic tripping mechanism provides protection against sudden short circuit currents.

LV circuit breakers are mechanical switching and protection elements that open and close the connected circuit with and without load, and cut off the energy by automatically switching on the circuit in accordance with the switching on characteristics and current values in cases of overload and short circuit faults. XKoren Electric compact type circuit breakers are produced as 1, 2, 3, 4 poles in the range of 16 - 2500 amperes in accordance with IEC 60947-2 and TS EN 60947-2 Standards. It meets the needs of users with a wide range of accessories. Accessories such as low voltage coil, trip coil, auxiliary contact, alarm/trip contact, motor control mechanism, mechanical lock, key lock mechanism, extended rotary assemble lever, assemble lever extension, extension bar, phase curtain, panel cover, terminal protective cover, terminal block are delivered with the product.

Common Selection Parameters in Compact Switches:

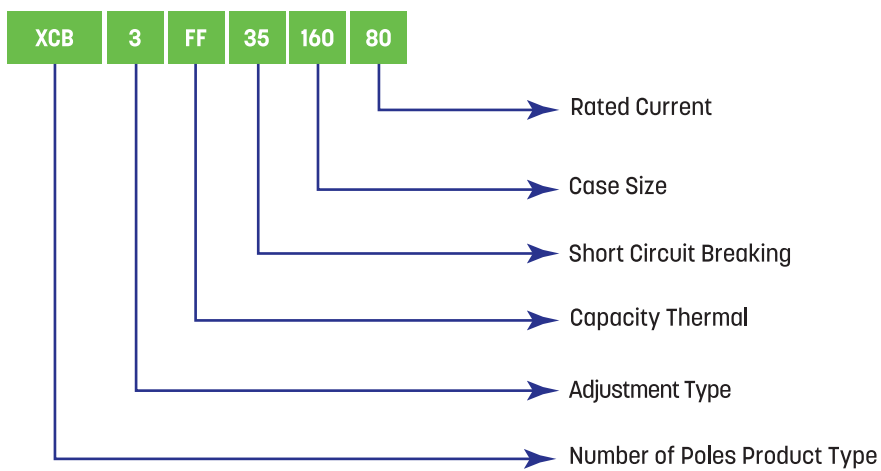
- Rated Current (In)
- Nominal Insulation Voltage (Ui)
- Rated Operating Voltage (Ue)
- Nominal Impulse Withstand Voltage (Uimp)
- Operating Short Circuit Breaking Capacity (Ics)

XKoren Electric Compact Switches are divided into 2 groups, FF and AF, according to the switching on types. It is divided into two according to whether it is with or without a coil. Thermal-magnetic circuit breakers with breaking capacities of 25kA, 35kA, 50kA, 70kA, 80kA; Thanks to its limiter feature; it also has high current limiting feature.

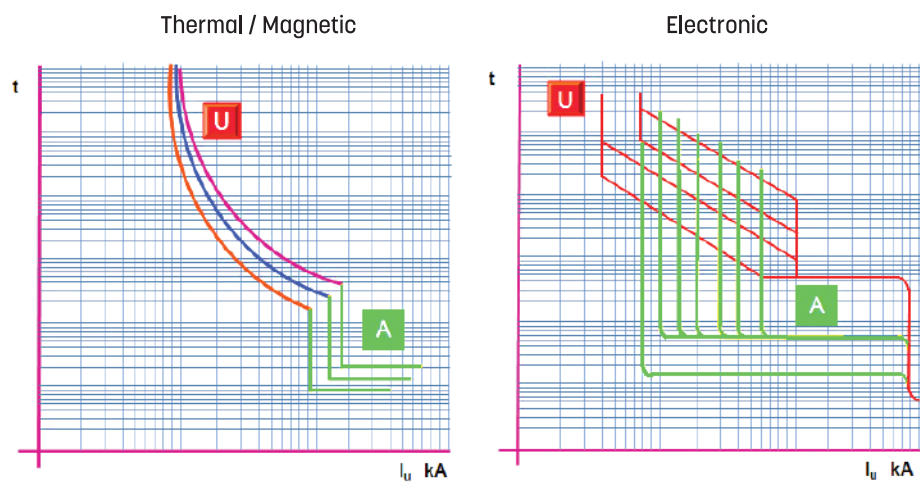


Operating conditions

- **Altitude:** maksimum 2000m
- **Usage Temperature:** -20°C to +60°C
- **Storage Temperature:** -40°C to +80°C
- **Moisture:** It should not exceed 90% at 20°C and 50% at 40°C.



Curves for Thermal - Magnetic and Electronic Trip Units:



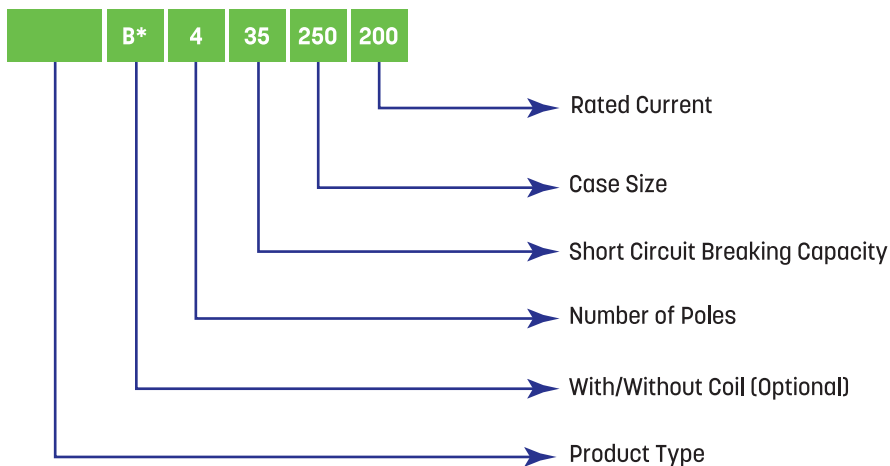
COMPACT CIRCUIT BREAKERS		XCB									
		160 Cases			250 Cases		400 Cases		630 Cases		
Rated Current	A	16,20,25,32,40,50,63,80,100,125,160			200,250		300,400		500,630		
Pole	P	3,4			3,4		3,4		3,4		
Setting Type		XF Type	FF Type	AF Type	FF Type	AF Type	FF Type	AF Type	FF Type	AF Type	
Thermal Adjustment		None	Still	(0,7-1)*In	Still	(0,7-1)*In	Still	(0,7-1)*In	Still	(0,7-1)*In	
Magnetic Adjustment		Still	Still	Still	Still	Still	Still	Still	Still	Still	
Trip Unit		Magnetic	Thermal / Magnetic		Thermal / Magnetic		Thermal / Magnetic		Thermal / Magnetic		
Rated Operating Voltage (Ue)	V AC	690	690	415	690	415	690	415	690	415	
Rated Insulation Voltage (Ui)	V	690	690	750	690	750	690	750	690	750	
Rated Impulse Withstand Voltage (Uimp)	kV	8	8	8	8	8	8	8	8	8	
Ultimate Short Circuit Breaking Capacity (Icu)	kA	AC 220-240V	70	70	35	70	35	100	50	100	50
		AC 380-415V	50	50	25	50	25	70	35	70	35
		AC 690V	5	5	3	5	3	7	4	7	4
		DC 500V	5	5	3	5	3	7	4	7	4
Operating Short Circuit Breaking Capacity (Ics)%Icu		75	75	50	75	75	75	75	75	75	
Standards		IEC60947-2			IEC60947-2		IEC60947-2		IEC60947-2		
Electrical Life	op.	5000			5000		6000		5000		
Mechanical Life	op.	10000			10000		15000		15000		
Accessories											
Trip Coil (Plug-in)		—	✓	✓	✓	✓	✓	✓	✓	✓	
Under Voltage Coil		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Auxiliary Contact (Plug-in)		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Alarm Contact (Plug-in)		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Engine Mechanism		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Rotary Handle (Direct)		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Rotary Handle (Extended)		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Terminal Protective Cover		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Phase Pitch		✓	✓	✓	✓	✓	✓	✓	✓	✓	

COMPACT CIRCUIT BREAKERS		XCB				
		800 Cases		1600 Cases		
Rated Current	A	800		1000,1250,1600		
Pole	P	3,4		3,4		
Setting Type		FF Type	AF Type	FF Type	AF Type	
Thermal Adjustment		Still	(0,4-1)*In	Still	(0,4-1)*In	
Magnetic Adjustment		Still	Still	Still	Still	
Trip Unit		Therm/Magn.	Electronic	Eelectronic		
Rated Operating Voltage (Ue)	V AC	690	415	690	415	
Rated Insulation Voltage (Ui)	V	690	750	690	750	
Rated Impulse Withstand Voltage (Uimp)	kV	8	8	8	8	
Ultimate Short Circuit Breaking Capacity (Icu)	kA	AC 220-240V	100	50	115	115
		AC 380-415V	70	35	80	80
		AC 690V	7	4	8	8
		DC 500V	7	4	8	8
Operating Short Circuit Breaking Capacity (Ics) %Icu		100	100	100	100	
Standards		IEC60947-2		IEC60947-2		
Electrical Life	op.	3000		2000		
Mechanical Life	op.	10000		8000		
Accessories						
Trip Coil (Plug-in)		✓	✓	✓	✓	
Under Voltage Coil		✓	✓	✓	✓	
Auxiliary Contact (Plug-in)		✓	✓	✓	✓	
Alarm Contact (Plug-in)		✓	✓	✓	✓	
Engine Mechanism		✓	✓	✓	✓	
Rotary Handle (Direct)		✓	✓	✓	✓	
Rotary Handle (Extended)		✓	✓	✓	✓	
Terminal Protective Cover		✓	✓	✓	✓	
Phase Pitch		✓	✓	✓	✓	

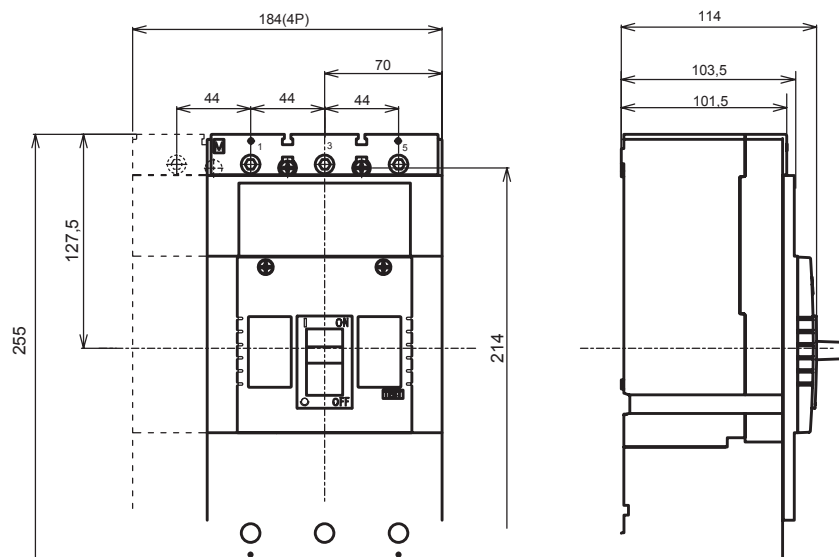
XFC Series;

XKoren Electric XFC series residual current protected compact type circuit breakers are used in high performance, high breaking capacity, high coordination, high life, and high scope applications.

- * High performance
- * Reliability with highest breaking capacity
- * High level of electrical and mechanical life
- * Ability to respond to high-level applications
- * Possibility of staggering and selectivity with optimum functional features
- * It provides high performance and reliability control and protection against residual current.
- Product range in 3 cases in total (3 case types from 32A to 400: 160/250/400A)
- * High breaking capacity 415VAC: 25, 50,70kA
- * Compliance with specifications for different applications $I_{cs}=\%I_{cs}$ options; ($I_{cu}- I_{cs}$ 75%)
- * High impact withstand voltage level ($U_{imp} = 8kV, U_i =690V$)
- * XFC series Electromechanical tripping unit against overcurrent and short circuit currents, electronic tripping unit against RESIDUAL currents
- * Accessories that can be used compatible with different cases (AX, AL, SHT, UVT)



COMPACT CIRCUIT BREAKERS WITH RESIDUAL CURRENT PROTECTION		XFC					
		160 Cases		250 Cases		400 Cases	
Rated Current	A	32,40,50,63,80,100,125		160,200,250		300,350,400	
Pole	P	4		4		4	
Trip Type		with coil	without coil	with coil	without coil	with coil	without coil
Thermal Adjustment		Still		Still		Still	
Magnetic Adjustment		Still		Still		Still	
Trip Unit		Thermal / Magnetic					
Rated Operating Voltage (Ue)	V AC	400		400		400	
Rated Insulation Voltage (Ui)	V	690		690		690	
Rated Impulse Withstand Voltage (Uimp)	kV	6		6		6	
Rated Residual Current (I Δ n)	mA	100,300,500		100,300,500		100,300,500	
Residual Current Switching on Time	ms	0,1		0,1		0,1	
Delay Time Setting	sn	0,1/0,2/0,4/0,6		0,1/0,2/0,4/0,6		0,1/0,2/0,4/0,6	
Ultimate Short Circuit Breaking Capacity (Icu)	kA	AC 220-240V		75		100	
		AC 380-415V		50		70	
		AC 690V		5		7	
		DC 500V		5		7	
Operating Short Circuit Breaking Capacity (Ics) %Icu		75		75		75	
Standarts							
Electrical Life	op.	8000		8000		6000	
Mechanical Life	op.	25000		25000		15000	
Mechanical Life							
Trip Coil (Plug-in)		✓	✓	✓	✓	✓	✓
Low Voltage Coil		✓	✓	✓	✓	✓	✓
Auxiliary Contact (Plug-in)		✓	✓	✓	✓	✓	✓
Alarm Contact (Plug-in)		✓	✓	✓	✓	✓	✓
Engine Mechanism		✓	✓	✓	✓	✓	✓
Rotary Handle (Direct)		✓	✓	✓	✓	✓	✓
Rotary Handle (Extended)		✓	✓	✓	✓	✓	✓
Terminal Protective Cover		✓	✓	✓	✓	✓	✓
Protective Cover		✓	✓	✓	✓	✓	✓



XNV SERIES AIR CIRCUIT BREAKERS



Open Type Switches - Motorized (3 Poles)

Model	Rated Current (A)	Thermal A. Field(A)	Cutting Capacity	Type Code	Explanation
XNV-10A-3P-FPC-M	1000A	400-1000	65kA	XNV-10A-3P-FPC	3P, FIXED, 65kA, (400-1000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-12A-3P-FPC-M	1250A	500-1250	65kA	XNV-12A-3P-FPC	3P, FIXED, 65kA, (500-1250A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-16A-3P-FPC-M	1600A	640-1600	65kA	XNV-16A-3P-FPC	3P, FIXED, 65kA, (640-1600A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-20A-3P-FPC-M	2000A	800-2000	85kA	XNV-20A-3P-FPC	3P, FIXED, 85kA, (800-2000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-25A-3P-FPC-M	2500A	1000-2500	85kA	XNV-25A-3P-FPC	3P, FIXED, 85kA, (1000-2500A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-32A-3P-FPC-M	3200A	1280-3200	85kA	XNV-32A-3P-FPC	3P, FIXED, 85kA, (1280-3200A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-40A-3P-FPC-M	4000A	1600-4000	100kA	XNV-40A-3P-FPC	3P, FIXED, 100kA, (1600-4000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-50A-3P-FPC-M	5000A	2000-5000	100kA	XNV-50A-3P-FPC	3P, FIXED, 100kA, (2000-5000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-63A-3P-FPC-M	6300A	2520-6300	100kA	XNV-63A-3P-FPC	3P, FIXED, 150kA, (2500-6300A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM

Open Type Switches - Motorized (4 Poles)

Model	Rated Current (A)	Thermal A. Field (A)	Cutting Capacity	Type Code	Explanation
XNV-10A-4P-FPC-M	1000A	400-1000	65kA	XNV-10A-4P-FPC	4P, FIXED, 65kA, (400-1000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-12A-4P-FPC-M	1250A	500-1250	65kA	XNV-12A-4P-FPC	4P, FIXED, 65kA, (500-1250A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-16A-4P-FPC-M	1600A	640-1600	65kA	XNV-16A-4P-FPC	4P, FIXED, 65kA, (640-1600A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-20A-4P-FPC-M	2000A	800-2000	85kA	XNV-20A-4P-FPC	4P, FIXED, 85kA, (800-2000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-25A-4P-FPC-M	2500A	1000-2500	85kA	XNV-25A-4P-FPC	4P, FIXED, 85kA, (1000-2500A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-32A-4P-FPC-M	3200A	1280-3200	85kA	XNV-32A-4P-FPC	4P, FIXED, 85kA, (1280-3200A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-40A-4P-FPC-M	4000A	1600-4000	100kA	XNV-40A-4P-FPC	4P, FIXED, 100kA, (1600-4000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-50A-4P-FPC-M	5000A	2000-5000	100kA	XNV-50A-4P-FPC	4P, FIXED, 100kA, (2000-5000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-63A-4P-FPC-M	6300A	2520-6300	100kA	XNV-63A-4P-FPC	4P, FIXED, 150kA, (2500-6300A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM

Open Type Switches - Motorized (3 Poles) (Withdrawable)

Model	Rated Current (A)	Thermal A. Field (A)	Cutting Capacity	Type Code	Explanation
XNV-10A-3P-FPD-M	1000A	400-1000	65kA	XNV-10A-3P-FPD	3P, WITHDRAWABLE 65kA, (400-1000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-12A-3P-FPD-M	1250A	500-1250	65kA	XNV-12A-3P-FPD	3P, WITHDRAWABLE 65kA, (500-1250A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-16A-3P-FPD-M	1600A	640-1600	65kA	XNV-16A-3P-FPD	3P, WITHDRAWABLE 65kA, (640-1600A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-20A-3P-FPD-M	2000A	800-2000	85kA	XNV-20A-3P-FPD	3P, WITHDRAWABLE 85kA, (800-2000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-25A-3P-FPD-M	2500A	1000-2500	85kA	XNV-25A-3P-FPD	3P, WITHDRAWABLE 85kA, (1000-2500A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-32A-3P-FPD-M	3200A	1280-3200	85kA	XNV-32A-3P-FPD	3P, WITHDRAWABLE 85kA, (1280-3200A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-40A-3P-FPD-M	4000A	1600-4000	100kA	XNV-40A-3P-FPD	3P, WITHDRAWABLE 100kA, (1600-4000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-50A-3P-FPD-M	5000A	2000-5000	100kA	XNV-50A-3P-FPD	3P, WITHDRAWABLE 100kA, (2000-5000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-63A-3P-FPD-M	6300A	2520-6300	100kA	XNV-63A-3P-FPD	3P, WITHDRAWABLE 150kA, (2500-6300A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM

Open Type Switches - Motorized (4 Poles) (Withdrawable)

Model	Rated Current (A)	Thermal A. Field (A)	Cutting Capacity	Type Code	Explanation
XNV-10A-4P-FPD-M	1000A	400-1000	65kA	XNV-10A-4P-FPD	4P, WITHDRAWABLE 65kA, (400-1000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-12A-4P-FPD-M	1250A	500-1250	65kA	XNV-12A-4P-FPD	4P, WITHDRAWABLE 65kA, (500-1250A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-16A-4P-FPD-M	1600A	640-1600	65kA	XNV-16A-4P-FPD	4P, WITHDRAWABLE 65kA, (640-1600A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-20A-4P-FPD-M	2000A	800-2000	85kA	XNV-20A-4P-FPD	4P, WITHDRAWABLE 85kA, (800-2000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-25A-4P-FPD-M	2500A	1000-2500	85kA	XNV-25A-4P-FPD	4P, WITHDRAWABLE 85kA, (1000-2500A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-32A-4P-FPD-M	3200A	1280-3200	85kA	XNV-32A-4P-FPD	4P, WITHDRAWABLE 85kA, (1280-3200A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-40A-4P-FPD-M	4000A	1600-4000	100kA	XNV-40A-4P-FPD	4P, WITHDRAWABLE 100kA, (1600-4000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-50A-4P-FPD-M	5000A	2000-5000	100kA	XNV-50A-4P-FPD	4P, WITHDRAWABLE 100kA, (2000-5000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-63A-4P-FPD-M	6300A	2520-6300	100kA	XNV-63A-4P-FPD	4P, WITHDRAWABLE 150kA, (2500-6300A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM



Open Type Switches - Motorized (3 Poles)

Model	Rated Current (A)	Thermal Setting Field (A)	Cutting Capacity	Type Code	Explanation
XNV-E-08A-3P-FPC-M	800A	320-800	42kA	XNV-E-08A-3P-FPC	3 KTP, SABIT, 42KA, (400-1000A), Hand Wound - Fixed Type - Motorized
XNV-E-10A-3P-FPC-M	1000A	400-1000	42kA	XNV-E-10A-3P-FPC	3 KTP, SABIT, 42KA, (400-1000A), Hand Wound - Fixed Type - Motorized
XNV-E-12A-3P-FPC-M	1250A	500-1250	42kA	XNV-E-12A-3P-FPC	3 KTP, SABIT, 42KA, (500-1250A), Hand Wound - Fixed Type - Motorized
XNV-E-16A-3P-FPC-M	1600A	640-1600	42kA	XNV-E-16A-3P-FPC	3 KTP, SABIT, 42KA, (640-1600A), Hand Wound - Fixed Type - Motorized

Open Type Switches - Motorized (4 Poles)

Model	Rated Current (A)	Thermal Setting Field (A)	Cutting Capacity	Type Code	Explanation
XNV-E-08A-4P-FPC-M	800A	320-800	42kA	XNV-E-08A-4P-FPC	4P, FIXED, 42kA, (400-1000A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-10A-4P-FPC-M	1000A	400-1000	42kA	XNV-E-10A-4P-FPC	4P, FIXED, 42kA, (400-1000A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-12A-4P-FPC-M	1250A	500-1250	42kA	XNV-E-12A-4P-FPC	4P, FIXED, 42kA, (500-1250A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-16A-4P-FPC-M	1600A	640-1600	42kA	XNV-E-16A-4P-FPC	4P, FIXED, 42kA, (640-1600A), HAND WOUND - FIXED TYPE - MOTORIZED

Open Type Switches - Motorized (3 Poles) (Withdrawable)

Model	Rated Current (A)	Thermal Setting Field (A)	Cutting Capacity	Type Code	Explanation
XNV-E-08A-3P-FPD-M	800A	320-800	42kA	XNV-E-08A-3P-FPD	3P, WITHDRAWABLE 42kA, (400-1000A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-10A-3P-FPD-M	1000A	400-1000	42kA	XNV-E-10A-3P-FPD	3P, WITHDRAWABLE, 42kA, (400-1000A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-12A-3P-FPD-M	1250A	500-1250	42kA	XNV-E-12A-3P-FPD	3P, WITHDRAWABLE, 42kA, (500-1250A), HAND WOUND - FIXED TYPE - MOTORIZED
XNV-E-16A-3P-FPD-M	1600A	640-1600	42kA	XNV-E-16A-3P-FPD	3P, WITHDRAWABLE, 42kA, (640-1600A), HAND WOUND - FIXED TYPE - MOTORIZED

Open Type Switches - Motorized (4 Poles) (Withdrawable)

Model	Rated Current (A)	Thermal Setting Field (A)	Cutting Capacity	Type Code	Explanation
XNV-E-08A-4P-FPD-M	800A	320-800	42kA	XNV-E-08A-4P-FPD	4P, DRAWER, 42kA, (400-1000A), AIR CIRCUIT BREAKER - FIXED TYPE - MOTORIZED
XNV-E-10A-4P-FPD-M	1000A	400-1000	42kA	XNV-E-10A-4P-FPD	4P, DRAWER 65kA, (400-1000A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-E-12A-4P-FPD-M	1250A	500-1250	42kA	XNV-E-12A-4P-FPD	4P, DRAWER 65kA, (500-1250A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM
XNV-E-16A-4P-FPD-M	1600A	640-1600	42kA	XNV-E-16A-4P-FPD	4P, DRAWER 65kA, (640-1600A), AIR CIRCUIT BREAKER WITH MOTOR MECHANISM



Engine Mechanism

Motor Operation	Type Code	Explanation
AC200~250V	XNV-MOT	MOTOR MECHANISM

Closing Coil

Coil Operation	Type Code	Explanation
AC/DC 200~250V	XNV-NC	CLOSING COIL

Trip Coil

Coil Operation	Type Code	Explanation
AC200~250V	XNV-NA	TRIP COIL

Low Voltage Coil

Coil Operation	Type Code	Explanation
AC 200~250V	XNV-LVS	LOW VOLTAGE COIL
AC 200~250V	XNV-LVT	LOW VOLTAGE COIL (TIME DELAY)
AC380~480V	XNV-LVTM	TIME DELAY MODULE

Auxiliary Contact Blocks

Model	Auxiliary Contacts	Type Code	Explanation
BX	5A5K	XNV-AC	AUXILIARY CONTACT

XKoren Open Type Power Circuit Breakers are used to distribute electrical energy and protect electrical equipment in circuits from overload, low voltage, short circuit and single-phase grounding faults. With smart and selective protection functions, XKoren Open Type Power Circuit Breakers increase the reliability of the power supply and prevent unnecessary power outages. It is used for power plants, factories, mines (690V) and high modern buildings, especially for the distribution systems of smart buildings.

XKoren ACB series Air Circuit Breakers are suitable for AC circuits at 50/60 Hz frequency with nominal voltage of 400V - 690V and nominal current up to 6300A.

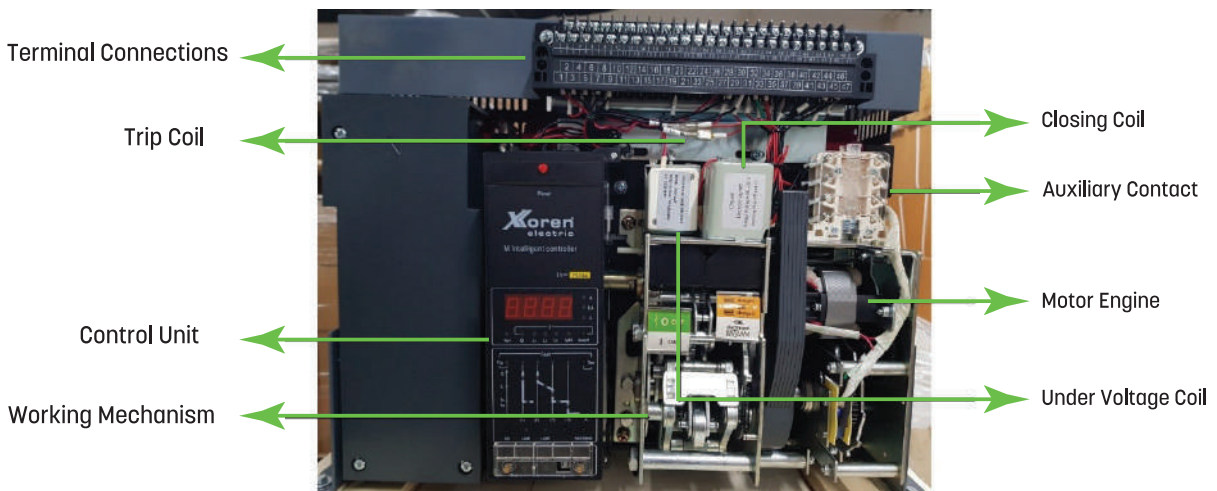
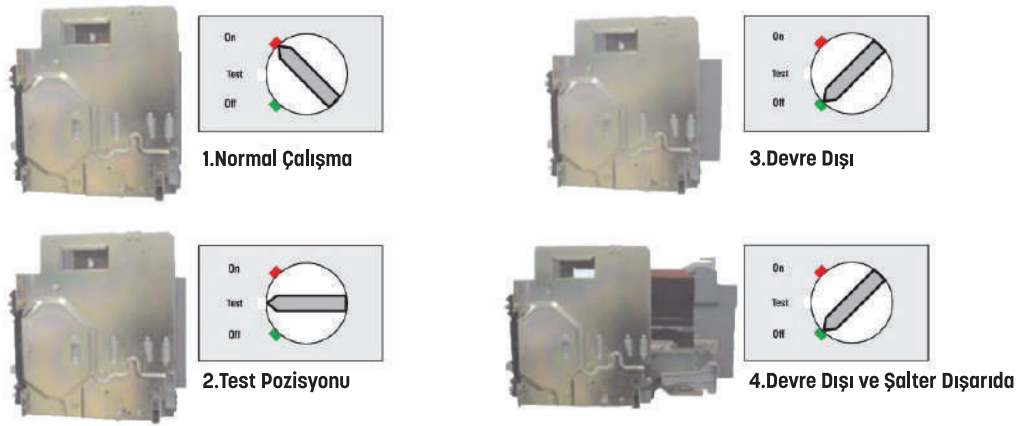
XKoren Open Type Power Circuit Breakers are produced as slot and Constant type, in accordance with CE standards, from 800 A to 6300 A.

XKoren Open Type Power Circuit Breakers have 4NO+4NC auxiliary contact, motor mechanism, Switching on coil and closing coil as standard.

Open Type Air Circuit Breakers with slot

There is no difference between the Slot Open Type Power Switches and the Constant Open Type Power Switches in terms of operation and protection, the only difference is that in the Slot Type Switches, the slot case and the main body are separated from each other by pulling with the help of the handle, and maintenance and repair operations in the electrical system are carried out quickly and easily.

In case of Slot Type Switches, when they are put into test mode, the maintenance of the switch and the control of its functions are ensured without the system losing power.



Protection Features of Overcurrent Control

Long Delay (Ir1)

Current Set.(Ir 1)	Fault	Current passing through the circuit	Switching on Time						Fault
(0.4~1)I _n	±%10	1.05xI _{r1}	Should not open for <2 hours						
		1.30xI _{r1}	<1 hour should open						
		1.5xI _{r1} (tt)	15 sn	30 sn	60 sn	120 sn	240 sn	480 sn	±10%
		2.0xI _{r1}	8.4 sn	16.9 sn	33.7 sn	67.5 sn	135 sn	270 sn	±10%

Short Delay (Ir2)

Current Set.(Ir 2)	Fault	Current passing through the circuit	Switching on Time				Fault
(0.4~15)I _{r2}	±%10	≤0.9xI _{r2}	No tripping				
		>1.1xI _{r2}	Delayed turn on				
		Gecikme Ayarı (ts)	0.1 sn	0.2 sn	0.3 sn	0.4 sn	±15%
		>8xI _{r2}	0.06 sn	0.14 sn	0.23 sn	0.35 sn	±15%

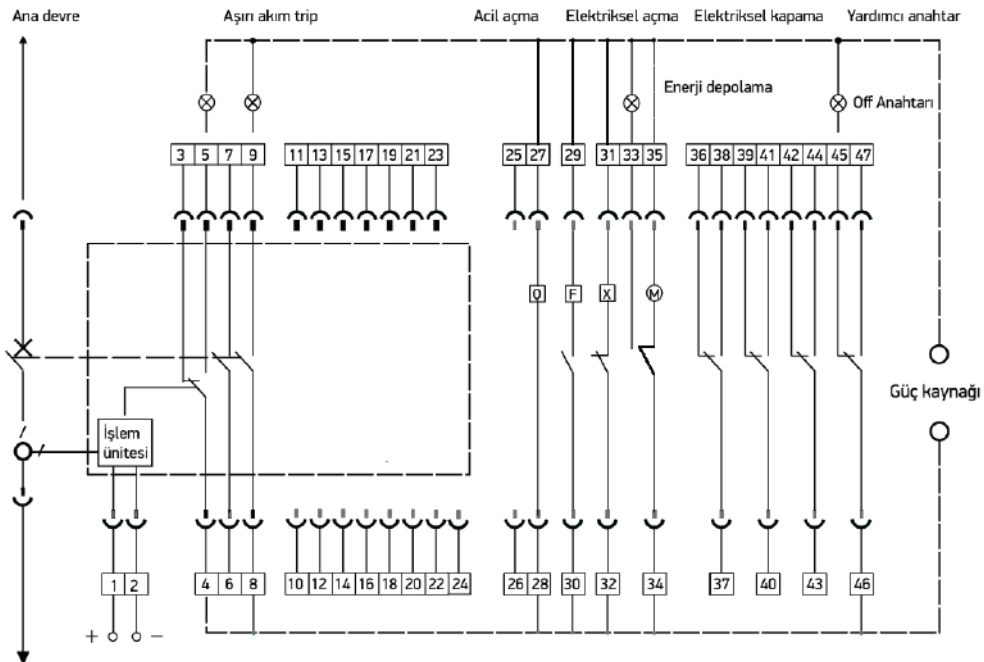
Immediate Cutoff (Ir3)

Current Set. (Ir 3)	Fault	Current passing through the circuit	Sudden Tripping
1.0 I _n ~50kA	±%15	≤0.85I _{r3}	No tripping
		>1.15I _{r3}	Tripping

Basic Error (Ir4)

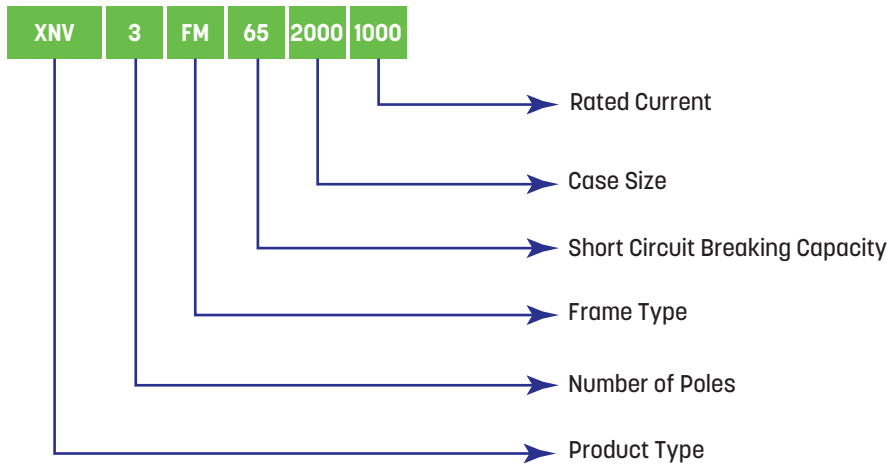
Current Set.(Ir 4)	Fault	Current passing through the circuit	Switching on Time				Fault
(0.2~0.8)I _{r4}	±%10	≤0.9xI _{r4}	Açma yok				
		>1.10I _{r4}	Açma var				
		Ayar Süresi (TG)	0.1 sn	0.2 sn	0.3 sn	0.4 sn	±15%

Wiring Diagram



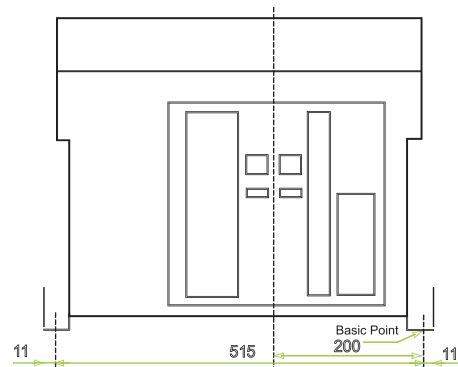
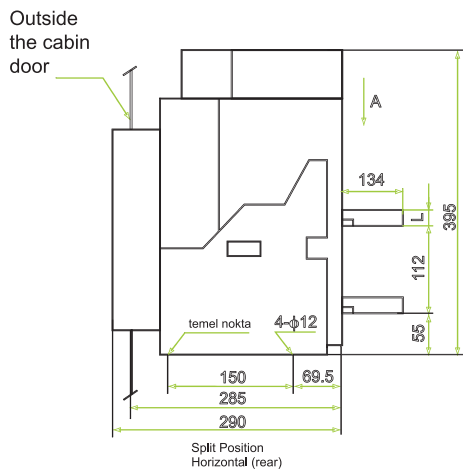
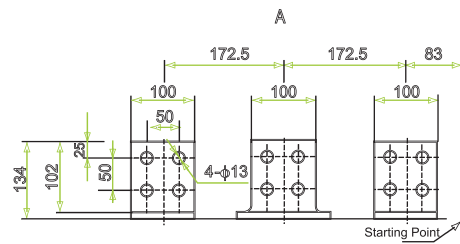
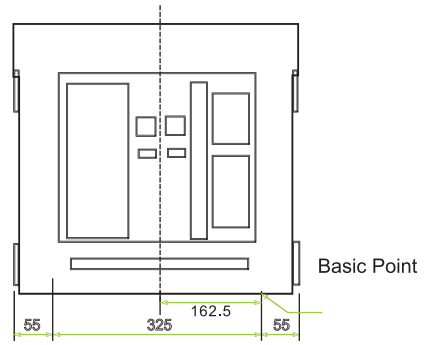
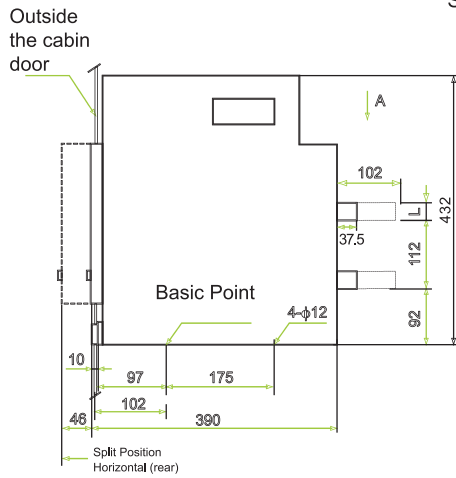
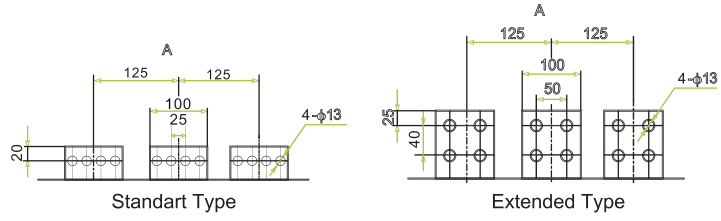
M: Motor Mechanism
Q: Under Voltage Coil
X: Closing Coil
F: Trip Coil

If a low voltage coil is installed in the circuit, the ends (27-28) of the low voltage coil must be energized in order for the open type power switch to give output.

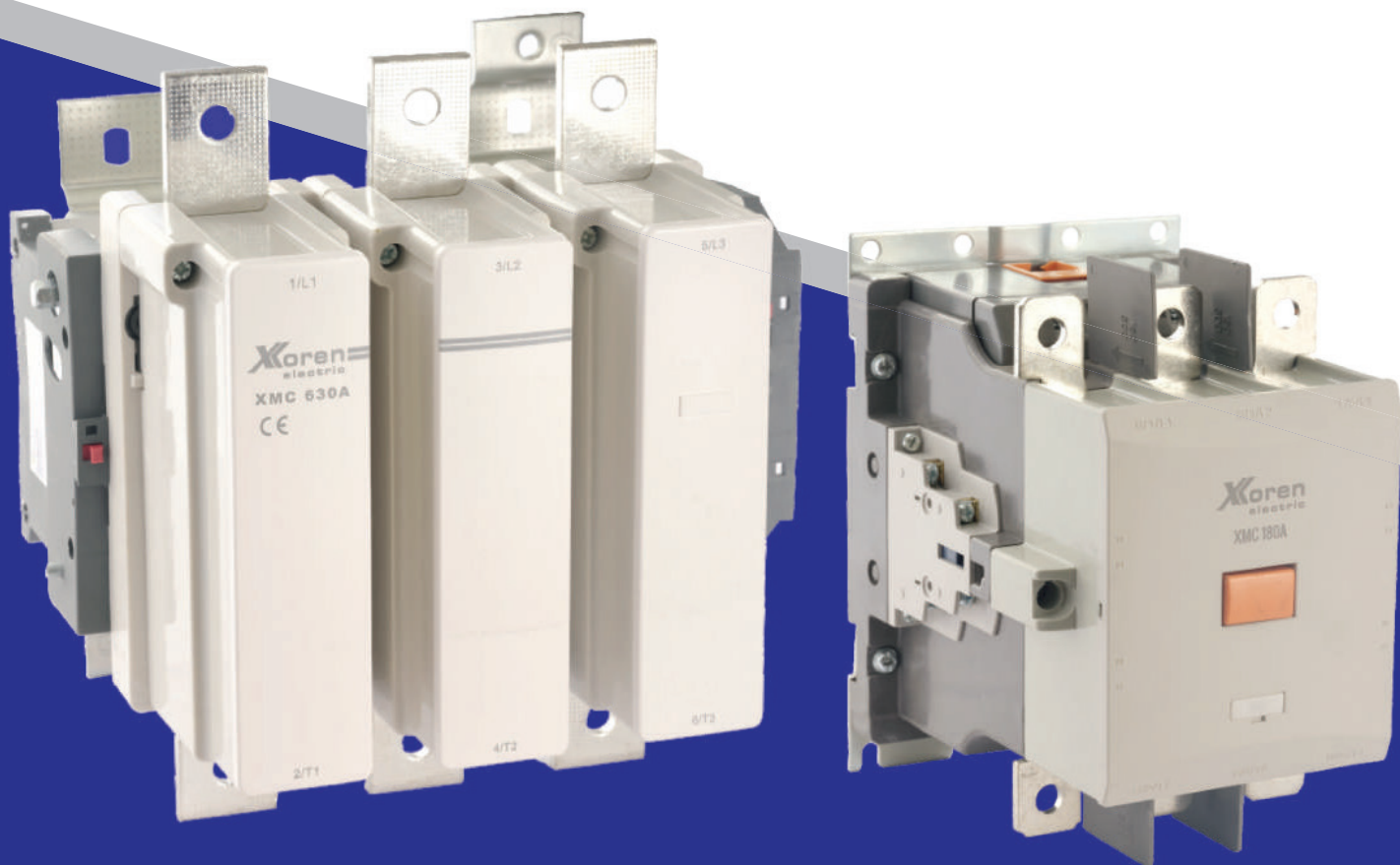


AIR CIRCUIT BREAKER			XNV							
			2000 Cases							
Rated Current (A)			800	1000	1250	1600	2000			
Pole (P)			3,4							
Type			XNV-E-03	XNV-E-10X	NV10	XNV-E-12X	NV12	XNV-E-16X	NV16	XNV20
Setting Range (...xIn)			0.4~1.0							
Rated Operating Voltage (Ue) VAC			690							
Rated Insulation Voltage (Ui)V			800							
Rated Impulse Withstand Voltage (Uimp) kV			12							
Operating Frequency Hz			50/60							
Ultimate Short Circuit Breaking Capacity (Icu) kA	400V		42	42	65	42	65	42	65	65
	690V		42	42	50	42	50	42	50	50
Business Short Circuit Cutting Capacity (Ics) %o x Icu			75	75	100	75	100	75	100	100
Rated Short Circuit Making Capacity (Icm) kA	400V		176/02							
	690V		105/0.25							
Rated Short-Term Withstand Current (Icw) kA	1 sn		65	65	65	65	65	65	65	65
	2 sn		60	60	50	60	50	60	50	50
	3 sn		50	50	42	50	42	50	42	42
Switching on Time ms			40							
Closing Time ms			80							
Electrical Life op			5000							
Mechanical Life op			20000							
Trip Unit Type	Op.V.: AC/DC 100~250V		L / S / I / G							
Power Consumption	3P	W	350							
	4P	W	450							
Resistance per Pole	Constant Type	μΩ	11							
	Slot Type	μΩ	20							
Dimensions (L*W*H)	3P Constant Type	mm	362*323*402							
	3P Slot Type	mm	375*461*402							
	4P Constant Type	mm	457*323*402							
	4P Slot Type	mm	470*461*402							
Weight	3P Constant Type	kg	41							
	3P Slot Type	kg	71							
	4P Constant Type	kg	51,5							
	4P Slot Type	kg	86							
Accessories										
Shunt Trip (Plug-in)			✓							
Under Voltage Coil			✓							
Auxiliary Contact (Plug-in)			✓							
Alarm Contact (Plug-in)			✓							
Engine Mechanism			✓							
Rotary Handle (Direct)			✓							
Rotary Handle (Extended)			✓							
Phase Pitch			✓							

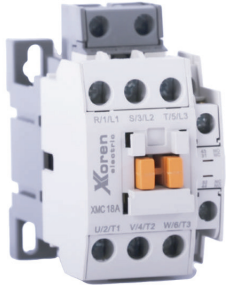
AIR CIRCUIT BREAKER XNV			XNV					
			3200 Cases		4000 Cases		6300 Cases	
Rated Current	(A)		2500	3200	4000	5000	6300	
Pole	P		3,43		,4	3,4		
Type			XNV25	XNV32	XNV40	XNV50	XNV63	
Setting Range	(...xIn)		0.4~1.0		0.4~1.0	0.4~1.0		
Rated Operating Voltage (Ue)	VAC		690		690	690		
Rated Insulation Voltage (U _{IV})			800		800	1000		
Rated Impulse Withstand Voltage (U _{imp})	kV		12		12	12		
Operating Frequency	Hz		50/60		50/60	50/60		
Ultimate Short Circuit Breaking Capacity (I _{cu})	kA	400V	85	85	100	100	100	
		690V	65	65	75	65	65	
Business Short Circuit Cutting Capacity (I _{cs})	% _o xI _{cu}		1001	00	1001	00	100	
Rated Short Circuit Making Capacity (I _{cm})	kA	400V	220/02					
		690V	143/02					
Rated Short-Term Withstand Current (I _{cw})	kA	1 sn	85	85	85	1001	00	
		2 sn	75	75	75	85	85	
		3 sn	65	65	65	75	75	
Switching on Time	ms		40					
Closing Time	ms		80					
Electrical Life	op		5000	5000	2000	2000	2000	
Mechanical Life	op		15000	150001	10000	5000	15000	
Trip Unit Type	Op.V.: AC/DC 100 ~ 250V		L / S / I / G					
Power Consumption	3P	W	1200	1200	1500	200	200	
	4P	W	1750	1750	1700	2300	2300	
Resistance per Pole	Constant Type	μΩ	9		9	9		
	Slot Type	μΩ	14		14	10		
Dimensions (L*W*H)	3P Constant Type	mm	422*323*402		422*323*402			
	3P Slot Type	mm	435*471*422		435*471*422	837*569*422		
	4P Constant Type	mm	537*323*402		537*323*402			
	4P Slot Type	mm	550*471*422		550*471*422	952*569*422		
Weight	3P Constant Type	kg	55		55			
	3P Slot Type	kg	95		95	245		
	4P Constant Type	kg	65		65			
	4P Slot Type	kg	1151		15	260		
Accessories								
Shunt Trip (Plug-in)			✓		✓		✓	
Under Voltage Coil			✓		✓		✓	
Auxiliary Contact (Plug-in)			✓		✓		✓	
Alarm Contact (Plug-in)			✓		✓		✓	
Motor Mechanism			✓		✓		✓	
Rotary Handle (Direct)			✓		✓		✓	
Rotary Handle (Extended)			✓		✓		✓	
Phase Pitch			✓		✓		✓	



XMC - XLC SERIES CONTACTORS



3 Pole XMC Series 220V AC Power Contactors



Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9	4kW	25A	9A	1NA + 1NK	XMC 9A-11S/220V	XMC-9 4kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-12	5,5kW	27A	12A	1NA + 1NK	XMC 12A-11S/220V	XMC-12 5,5kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-18	7,5kW	40A	18A	1NA + 1NK	XMC 18A-11S/220V	XMC-18 7,5kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-22	11kW	45A	22A	1NA + 1NK	XMC 22A-11S/220V	XMC-22 11kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-32	15kW	55A	32A	2NA + 2NK	XMC 32A-22S/220V	XMC-32 15kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-40	18,5kW	60A	40A	2NA + 2NK	XMC 40A-22S/220V	XMC-40 18,5kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-50	22kW	100A	50A	2NA + 2NK	XMC 50A-22S/220V	XMC-50 22kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-65	30kW	115A	65A	2NA + 2NK	XMC 65A-22S/220V	XMC-65 30kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-75	37kW	125A	75A	2NA + 2NK	XMC 75A-22S/220V	XMC-75 37kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-85	45kW	135A	85A	2NA + 2NK	XMC 85A-22S/220V	XMC-85 45kW 220VAC 3P XMC Series 220V AC POWER CONTACTORS
XMC-100	55kW	160A	105A	2NA + 2NK	XMC 100A-22S/220V	XMC-100 55kW AC/DC 110-220V 3P XMC Series 220V AC POWER CONTACTORS
XMC-125	60kW	200A	130A	2NA + 2NK	XMC 125A-22S/220V	XMC-125 60kW AC/DC 110-220V 3P XMC Series 220V AC POWER CONTACTORS
XMC-150	75kW	250A	150A	2NA + 2NK	XMC 150A-22S/220V	XMC-150 75kW AC/DC 110-220V 3P XMC Series 220V AC POWER CONTACTORS
XMC-180	90kW	300A	185A	2NA + 2NK	XMC 180A-22S/220V	XMC-180 90kW AC/DC 110-220V 3P XMC Series 220V AC POWER CONTACTORS
XMC-220	132kW	350A	225A	2NA + 2NK	XMC 220A-22S/220V	XMC-220 132kW AC/DC 110-220V 3P XMC Series 220V AC POWER CONTACTORS

3 Pole XMC Series 24V AC Power Contactors



Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9	4kW	25A	9A	1NA+1NK	XMC 9A-11S/24V	XMC-9 4kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-12	5,5kW	27A	12A	1NA+1NK	XMC 12A-11S/24V	XMC-12 5,5kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-18	7,5kW	40A	18A	1NA+1NK	XMC 18A-11S/24V	XMC-18 7,5kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-22	11kW	45A	22A	1NA+1NK	XMC 22A-11S/24V	XMC-22 11kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-32	15kW	55A	32A	2NA+2NK	XMC 32A-22S/24V	XMC-32 15kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-40	18,5kW	60A	40A	2NA+2NK	XMC 40A-22S/24V	XMC-40 18,5kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-50	22kW	100A	50A	2NA+2NK	XMC 50A-22S/24V	XMC-50 22kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-65	30kW	115A	65A	2NA+2NK	XMC 65A-22S/24V	XMC-65 30kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-75	37kW	125A	75A	2NA+2NK	XMC 75A-22S/24V	XMC-75 37kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR
XMC-85	45kW	135A	85A	2NA+2NK	XMC 85A-22S/24V	XMC-85 45kW 24VAC 3P XMC Series 24V AC POWER CONTACTOR

3 Pole XMC Series 24V DC Power Contactors



Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9	4kW	25A	9A	1NA + 1NK	XMC 9A-11S/48V	XMC-9 / 24DC 4kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-12	5,5kW	27A	12A	1NA + 1NK	XMC 12A-11S/48V	XMC-12 / 24DC 5,5kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-18	7,5kW	40A	18A	1NA + 1NK	XMC 18A-11S/48V	XMC-18 / 24DC 7,5kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-22	11kW	45A	22A	1NA + 1NK	XMC 22A-11S/48V	XMC-22 / 24DC 11kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-32	15kW	55A	32A	2NA + 2NK	XMC 32A-22S/48V	XMC-32 / 24DC 15kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-40	18,5kW	60A	40A	2NA + 2NK	XMC 40A-22S/48V	XMC-40 / 24DC 18,5kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-50	22kW	100A	50A	2NA + 2NK	XMC 50A-22S/48V	XMC-50 / 24DC 22kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-65	30kW	115A	65A	2NA + 2NK	XMC 65A-22S/48V	XMC-65 / 24DC 30kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-75	37kW	125A	75A	2NA + 2NK	XMC 75A-22S/48V	XMC-75 / 24DC 37kW 3P XMC Series 24V DC POWER CONTACTOR
XMC-85	45kW	135A	85A	2NA + 2NK	XMC 85A-22S/48V	XMC-85 / 24DC 45kW 3P XMC Series 24V DC POWER CONTACTOR

4 Pole XMC Series 220V AC Power Contactors



Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9/4	4kW	25A	9	-	XMC 9A-220V/4	XMC-9/4 4kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-12/4	5,5kW	25A	12	-	XMC 12A-220V/4	XMC-12/4 5,5kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-18/4	7kW	40A	18	-	XMC 18A-220V/4	XMC-18/4 7kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-22/4	11kW	40A	22	-	XMC 22A-220V/4	XMC-22/4 11kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-32/4	15kW	50A	32	-	XMC 32A-220V/4	XMC-32/4 15kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-40/4	18,5kW	60A	40	-	XMC 40A-220V/4	XMC-40/4 18,5kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-50/4	22kW	80A	50	-	XMC 50A-220V/4	XMC-50/4 22kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-65/4	30kW	100A	65	-	XMC 65A-220V/4	XMC-65/4 30kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-75/4	37kW	110A	75	-	XMC 75A-220V/4	XMC-75/4 37kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR
XMC-85/4	45kW	125A	85	-	XMC 85A-220V/4	XMC-85/4 45kW 220VAC 4P XMC SERIES 220 AC POWER CONTACTOR

3 Pole XMC Series 48V AC Power Contactors


Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9	4kW	25A	9A	1NO + 1NC	XMC 9A-11S/48V	XMC-9 4kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-12	5,5kW	27A	12A	1NO + 1NC	XMC 12A-11S/48V	XMC-12 5,5kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-18	7,5kW	40A	18A	1NO + 1NC	XMC 18A-11S/48V	XMC-18 7,5kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-22	11kW	45A	22A	1NO + 1NC	XMC 22A-11S/48V	XMC-22 11kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-32	15kW	55A	32A	2NO + 2NC	XMC 32A-22S/48V	XMC-32 15kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-40	18,5kW	60A	40A	2NO + 2NC	XMC 40A-22S/48V	XMC-40 18,5kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-50	22kW	100A	50A	2NO + 2NC	XMC 50A-22S/48V	XMC-50 22kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-65	30kW	115A	65A	2NO + 2NC	XMC 65A-22S/48V	XMC-65 30kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-75	37kW	125A	75A	2NO + 2NC	XMC 75A-22S/48V	XMC-75 37kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR
XMC-85	45kW	135A	85A	2NO + 2NC	XMC 85A-22S/48V	XMC-85 45kW 48VAC 3P XMC SERIES 48V AC POWER CONTACTOR

3 Pole XMC Series 48V DC Power Contactors


Model	Rated Power (kW)	Thermal	Thermal	Auxiliary	Type Code	Explanation
	400 VAC	Current (A) AC1	Current (A) AC3	Contacts		
XMC-9	4kW	25A	9A	1NO + 1NC	XMC 9D-11S/48V	XMC-9 4kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-12	5,5kW	25A	12A	1NO + 1NC	XMC 12D-11S/48V	XMC-12 5,5kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-18	7,5kW	40A	18A	1NO + 1NC	XMC 18D-11S/48V	XMC-18 7,5kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-22	11kW	45A	22A	1NO + 1NC	XMC 22D-11S/48V	XMC-22 11kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-32	15kW	55A	32A	2NO + 2NC	XMC 32D-22S/48V	XMC-32 15kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-40	18,5kW	60A	40A	2NO + 2NC	XMC 40D-22S/48V	XMC-40 18,5kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-50	22kW	100A	50A	2NO + 2NC	XMC 50D-22S/48V	XMC-50 22kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-65	30kW	115A	65A	2NO + 2NC	XMC 65D-22S/48V	XMC-65 30kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-75	37kW	125A	75A	2NO + 2NC	XMC 75D-22S/48V	XMC-75 37kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR
XMC-85	45kW	135A	85A	2NO + 2NC	XMC 85D-22S/48V	XMC-85 45kW 48V DC 3P XMC SERIES 48V DC POWER CONTACTOR

Auxiliary Contact Blocks for XMC Series

Model	Product Used	Auxiliary Contacts	Assembly	Type Code	Explanation	
AC-T	(XMC9A-85A)	2NA,	Upside	AC-T/2 20	AC-T TOP 2NO AUXILIARY CONTACT BLOCKS XMC SERIES	
		1NA1NK,	Upside	AC-T/2 11	AC-T TOP 1NO+1NC AUXILIARY CONTACT BLOCKS XMC SERIES	
		2NK,	Upside	AC-T/2 02	AC-T TOP 2NO AUXILIARY CONTACT BLOCKS XMC SERIES	
	(XMC9A-85A)	,4A,	Upside	AC-T/4 40	AC-T TOP 4NO AUXILIARY CONTACT BLOCKS XMC SERIES	
		1NA3NK,	Upside	AC-T/4 13	AC-T TOP 1NO+3NC AUXILIARY CONTACT BLOCKS XMC SERIES	
		2NA2NK,	Upside	AC-T/4 22	AC-T TOP 2NO+2NC AUXILIARY CONTACT BLOCKS XMC SERIES	
		3A1NK,	Upside	AC-T/4 31	AC-T TOP 3NO+1NC AUXILIARY CONTACT BLOCKS XMC SERIES	
	AC-S	XMC125A-220A	1NA1NK	Upside	AC-T/2 11	AC-T TOP 1NO+1NC AUXILIARY CONTACT BLOCKS XMC SERIES
			2NA2NK	Upside	AC-T/4 22	AC-T TOP 2NO+2NC AUXILIARY CONTACT BLOCKS XMC SERIES
		(XMC9A-85A)	1NA1NK	Side	AC-S 65	AC-S SIDE 1NO+1NC AUXILIARY CONTACT BLOCKS XMC SERIES
XMC100A		1NA1NK	Side	AC-S 100	AC-S SIDE 1NO+1NC AUXILIARY CONTACT BLOCKS XMC SERIES	


Mechanical Interlock Units

Model	Contactor to be Used Together 3P	Type Code	Explanation
MC150M	XMC 100A-150A	XMR150A	XMC 100A 150A MECHANICAL LOCK AREA
MC220M	XMC 180A-220A	XMR220A	XMC 180A-220A MECHANICAL LOCK AREA

Spare Contact Kit For XMC Series

Model	Contactor to be Used Together 3P	Type Code	Explanation
RKT/XMC-9	XMC-9	XMC-RKT 9A	XMC-9 SPARE CONTACT KIT
RKT/XMC-12	XMC-12	XMC-RKT 12A	XMC-12 SPARE CONTACT KIT
RKT/XMC-18	XMC-18	XMC-RKT 18A	XMC-18 SPARE CONTACT KIT
RKT/XMC-22	XMC-22	XMC-RKT 22A	XMC-22 SPARE CONTACT KIT
RKT/XMC-32	XMC-32	XMC-RKT 32A	XMC-32 SPARE CONTACT KIT
RKT/XMC-40	XMC-40	XMC-RKT 40A	XMC-40 SPARE CONTACT KIT
RKT/XMC-50	XMC-50	XMC-RKT 50A	XMC-50 SPARE CONTACT KIT
RKT/XMC-65	XMC-65	XMC-RKT 65A	XMC-65 SPARE CONTACT KIT
RKT/XMC-75	XMC-75	XMC-RKT 75A	XMC-75 SPARE CONTACT KIT
RKT/XMC-85	XMC-85	XMC-RKT 85A	XMC-85 SPARE CONTACT KIT
RKT/ XMC-100	XMC-100	XMC-RKT 100A	XMC-100 SPARE CONTACT KIT
RKT/ XMC-125/150	XMC-125/150	XMC-RKT 150A	XMC-150 SPARE CONTACT KIT
RKT/ XMC-180	XMC-180	XMC-RKT 180A	XMC-180 SPARE CONTACT KIT
RKT/XMC-220	XMC-220	XMC-RKT 220A	XMC-220 SPARE CONTACT KIT

Thermal Relay Rail Mount Adapter

Model	Thermal Relay Used Together	Type Code	Explanation
RMA-22	XMTR 22K	XTR MA-22 A	XMTR 22K RELAY RAIL MOUNT ADAPTER
RMA-40	XMTR 40K	XTR MA-40 A	XMTR 40K RELAY RAIL MOUNT ADAPTER
RMA-85	XMTR 85K	XTR MA-85 A	XMTR 85K RELAY RAIL MOUNT ADAPTER

Compensation Contactor Unit

Model	Contactor to be Used Together	Type Code	Explanation
AC-9	XMC-9 dan XMC-40	XMC-C AC-9	XMC-9-XMC-40 COMPENSATION CONTACTOR UNIT
AC-50	XMC-50 den XMC-85	XMC-C AC-50	XMC-50-XMC 85 COMPENSATION CONTACTOR UNIT

XMC Series AC Spare Coil

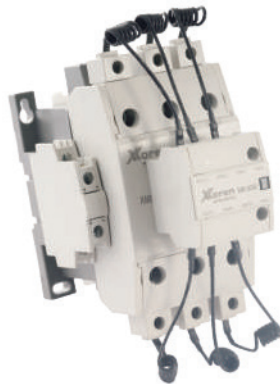
Model	Contactor to be Used Together 3P	Rated Coil Voltage V AC	Type Code	Explanation
XMCOL 22	XMC 9A-22A	220	XMCOL 22W/220V	XMC 9A-22A 220VAC AC BACKUP COILS XMC SERIES
XMCOL 22	XMC 9A-22A	24	XMCOL 22W/24V	XMC 9A-22A 24VAC AC BACKUP COILS XMC SERIES
XMCOL 22	XMC 9A-22A	48	XMCOL 22W/48V	XMC 9A-22A 48VAC AC BACKUP COILS XMC SERIES
XMCOL 40	XMC 32A-40A	220	XMCOL 40W/220V	XMC 32A-40A 220VAC AC BACKUP COILS XMC SERIES
XMCOL 40	XMC 32A-40A	24	XMCOL 40W/24V	XMC 32A-40A 24VAC AC BACKUP COILS XMC SERIES
XMCOL 40	XMC 32A-40A	48	XMCOL 40W/48V	XMC 32A-40A 48VAC AC BACKUP COILS XMC SERIES
XMCOL 85	XMC 50A-85A	220	XMCOL 85W/220V	XMC 50A-85A 220VAC AC BACKUP COILS XMC SERIES
XMCOL 85	XMC 50A-85A	24	XMCOL 85W/24V	XMC 32A-40A 24VAC AC BACKUP COILS XMC SERIES
XMCOL 85	XMC 50A-85A	48	XMCOL 85W/48V	XMC 32A-40A 48VAC AC BACKUP COILS XMC SERIES
XMCOL 150	XMC 100A-150A	220	XMCOL 150A	XMC 100A-150A 220VAC AC BACKUP COILS XMC SERIES
XMCOL 150	XMC 100A-150A	AC/DC 100-220V	XMCOL 150F	XMC 100A-150A AC/DC 100-220V FREE VOLTAGE AC BACKUP COILS XMC SERIES
XMCOL 220	XMC 180A-220A	AC/DC 100-220V	XMCOL 220F	XMC 180A-220A AC/DC 100-220V FREE VOLTAGE AC BACKUP COILS XMC SERIES

XMC Series DC Spare Coil

Model	Contactor to be Used Together 3P	Rated Coil Voltage V DC	Type Code	Explanation
XMCOL 22D	DC XMC-9 - XMC-22	24V DC	XMCOL 22D	DC XMC-9 - XMC-22 24V DC BACKUP COILS XMC SERIES
XMCOL 40D	DC XMC-32 - XMC-40	24V DC	XMCOL 40D	DC XMC-32 - XMC-40 24V DC BACKUP COILS XMC SERIES
XMCOL 85D	DC XMC-50 - XMC-85	24V DC	XMCOL 85D	DC XMC-50 - XMC-85 24V DC BACKUP COILS XMC SERIES

HIGH SOLUTION SERIES COMPENSATION CONTACTORS
Compensation Contactor

Model	Rated Power of Capacitor for 380/440V (kVAR) $\theta \leq 55^\circ \text{C}$	Auxiliary Contact	Type Code	Explanation
XMC-C 9	0,5	1NO + 1NC	XMC-C 9 32S/220V	0,5 kVAR - XMC-C 9 32S/220VCOMPENSATION CONTACTORS+B990.C1005
XMC-C 9	1	1NO + 1NC	XMC-C 9 32S/220V	1 kVAR - XMC-C 9 32S/220VCOMPENSATION CONTACTORS
XMC-C 9	1,5	1NO + 1NC	XMC-C 9 32S/220V	1,5 kVAR - XMC-C 9 32S/220VCOMPENSATION CONTACTORS
XMC-C 9	2,5	1NO + 1NC	XMC-C 9 32S/220V	2,5 kVAR - XMC-C 9 32S/220VCOMPENSATION CONTACTORS
XMC-C 9	5	1NO + 1NC	XMC-C 9 32S/220V	5 kVAR - XMC-C 9 32S/220VCOMPENSATION CONTACTORS
XMC-C 12	7,5	1NO + 1NC	XMC-C 12 32S/220V	7,5 kVAR - XMC-C 12 32S/220VCOMPENSATION CONTACTORS
XMC-C 12	10	1NO + 1NC	XMC-C 12 32S/220V	10 kVAR - XMC-C 12 32S/220VCOMPENSATION CONTACTORS
XMC-C 18	12,5	1NO + 1NC	XMC-C 18 32S/220V	12,5 kVAR - XMC-C 18 32S/220VCOMPENSATION CONTACTORS
XMC-C 18	15	1NO + 1NC	XMC-C 18 32S/220V	15 kVAR - XMC-C 18 32S/220VCOMPENSATION CONTACTORS
XMC-C 22	20	1NO + 1NC	XMC-C 22 32S/220V	20 kVAR - XMC-C 22 32S/220VCOMPENSATION CONTACTORS
XMC-C 32	25	2NO + 2NC	XMC-C 32 32S/220V	25 kVAR - XMC-C 32 32S/220VCOMPENSATION CONTACTORS
XMC-C 40	30	2NO + 2NC	XMC-C 40 32S/220V	30 kVAR - XMC-C 40 32S/220VCOMPENSATION CONTACTORS
XMC-C 50	40	2NO + 2NC	XMC-C 50 32S/220V	40 kVAR - XMC-C 50 32S/220VCOMPENSATION CONTACTORS
XMC-C 65	45,7	2NO + 2NC	XMC-C 65 32S/220V	45,7 kVAR - XMC-C 65 32S/220VCOMPENSATION CONTACTORS
XMC-C 75	50	2NO + 2NC	XMC-C 75 32S/220V	50 kVAR - XMC-C 75 32S/220VCOMPENSATION CONTACTORS
XMC-C 85	60	2NO + 2NC	XMC-C 85 32S/220V	60 kVAR - XMC-C 85 32S/220VCOMPENSATION CONTACTORS



3 Pole XLC Series 220V AC Power Contactors


Model	Rated Power (kW) 400 VAC	Thermal Current (A) AC1	Thermal Current (A) AC3	Auxiliary Contacts	Type Code	Explanation
XLC-9 1A	4kW	25A	9A	1NO	XMC-9W-10S/220V	XLC-9 1A 4kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-9 1B	4kW	25A	9A	1NC	XMC-9W-01S/220V	XLC-9 1B 4kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-12 1A	5.5kW	25A	12A	1NO	XMC-12W-10S/220V	XLC-12 1A 5.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-12 1B	5.5kW	25A	12A	1NC	XMC-12W-01S/220V	XLC-12 1B 5.5kW 220VAC 3P3POLE XLC SERIES 220V AC POWER CONTACTOR
XLC-18 1A	7.5kW	40A	18A	1NO	XMC-18W-10S/220V	XLC-18 1A 7.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-18 1B	7.5kW	40A	18A	1NC	XMC-18W-01S/220V	XLC-18 1B 7.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-25 1A	11kW	40A	22A	1NO	XMC-S-25W-10S/220V	XLC-25 1A 11kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-25 1B	11kW	40A	22A	1NC	XMC-S-25W-01S/220V	XLC-25 1B 11kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-25 1C	11kW	40A	22A	1NO	XMC-25W-10S/220V	XLC-25 1C 11kW 220VAC 3P3 XLC SERIES 220V AC POWER CONTACTOR
XLC-25 1D	11kW	40A	22A	1NC	XMC-25W-01S/220V	XLC-25 1D 11kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-32 1A	15kW	55A	32A	1NO	XMC-32W-10S/220V	XLC-32 1A 15kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-32 1B	15kW	55A	32A	1NC	XMC-32W-01S/220V	XLC-32 1B 15kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-40 1A	18.5kW	60A	40A	1NO	XMC-40W-10S/220V	XLC-40 1A 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-40 1B	18.5kW	60A	40A	1NC	XMC-40W-01S/220V	XLC-40 1B 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-50 1A	22kW	100A	50A	1NO	XMC-50W-10S/220V	XLC-50 1A 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-50 1B	22kW	100A	50A	1NC	XMC-50W-01S/220V	XLC-50 1B 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-65 1A	30kW	115A	65A	1NO	XMC-65W-10S/220V	XLC-65 1A 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-65 1B	30kW	115A	65A	1NC	XMC-65W-01S/220V	XLC-65 1B 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-75 1A	37kW	125A	75A	1NO	XMC-75W-10S/220V	XLC-75 1A 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-75 1B	37kW	125A	75A	1NC	XMC-75W-01S/220V	XLC-75 1B 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-85 1A	45kW	135A	85A	1NO	XMC-85W-10S/220V	XLC-85 1A 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-85 1B	45kW	135A	85A	1NC	XMC-85W-01S/220V	XLC-85 1B 18.5kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR

3 Pole XLC Series Power Contactors (Coil: 220V AC)


Model	Rated Power (kW) 400 VAC	Thermal Current (A) AC1	Thermal Current (A) AC3	Auxiliary Contacts	Type Code	Explanation
XLC-115	55kW	200A	115A	2NO + 2NC	XMC 115W-22S/220V	XLC-115 55kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-150	75kW	200A	150A	2NO + 2NC	XMC 150W-22S/220V	XLC-150 75kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-185	90kW	275A	185A	2NO + 2NC	XMC 185W-22S/220V	XLC-185 90kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-225	110kW	280A	225A	2NO + 2NC	XMC 225W-22S/220V	XLC-185 90kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-265	132kW	350A	265A	2NO + 2NC	XMC 265W-22S/220V	XLC-265 132kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-330	160kW	360A	330A	2NO + 2NC	XMC 330W-22S/220V	XLC-330 160kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-400	200kW	430A	400A	2NO + 2NC	XMC 400W-22S/220V	XLC-400 200kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-500	250kW	580A	500A	2NO + 2NC	XMC 500W-22S/220V	XLC-500 250kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-630	335kW	850A	630A	2NO + 2NC	XMC 630W-22S/220V	XLC-630 335kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-800	400kW	850A	800A	2NO + 2NC	XMC 800W-22S/220V	XLC-800 400kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR
XLC-1000	500kW	1200A	1000A	2NO + 2NC	XMC 1000W-22S/220V	XLC-1000 500kW 220VAC 3P XLC SERIES 220V AC POWER CONTACTOR

4 Pole XLC Series Power Contactors (Coil: 220V AC)


Model	Rated Power (kW) 400 AC3	Thermal Current (A) AC1	Thermal Current (A) AC3	Auxiliary Contacts	Type Code	Explanation
XLC-115/4	55kW	160A	100	2NO + 2NC	XMC 115W-22S/220V/4	XLC-115/4 55kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-150/4	75kW	250A	150	2NO + 2NC	XMC 150W-22S/220V/4	XLC-150/4 75kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-185/4	90kW	300A	185	2NO + 2NC	XMC 185W-22S/220V/4	XLC-185/4 90kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-225/4	132kW	350A	225	2NO + 2NC	XMC 225W-22S/220V/4	XLC-225/4 132kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-265/4	147kW	400A	265	2NO + 2NC	XMC 265W-22S/220V/4	XLC-265/4 147kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-330/4	160kW	500A	330	2NO + 2NC	XMC 330W-22S/220V/4	XLC-330/4 160kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-400/4	200kW	520A	400	2NO + 2NC	XMC 400W-22S/220V/4	XLC-400/4 200kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-500/4	265kW	700A	500	2NO + 2NC	XMC 500W-22S/220V/4	XLC-500/4 265kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-630/4	330kW	900A	630	2NO + 2NC	XMC 630W-22S/220V/4	XLC-630/4 330kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-800/4	440kW	1050A	800	2NO + 2NC	XMC 800W-22S/220V/4	XLC-800/4 440kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR
XLC-1000/4	-	-	-	2NO + 2NC	XMC 1000W-22S/220V/4	XLC-1000/4 500kW 220VAC 4P XLC SERIES 220V AC POWER CONTACTOR

Auxiliary Contact Blocks for XLC Series

Model	Contactor to be Used Together	Auxiliary Contact	Type Code	Explanation
AC-L	XLC-115 from XLC-1000	1NA1NK	AC-W1/2 11	XLC-115 - XLC-1000 1NO+1NC AUXILIARY CONTACT BLOCKS XLC SERIES
AC-L	XLC-115 from XLC-1000	2NA2NK	AC-W1/4 22	XLC-115 - XLC-1000 2NO+2NC AUXILIARY CONTACT BLOCKS XLC SERIES

Mechanical Interlock Units

Model	Contactor to be Used Together ^{3P}	Type Code	Explanation
LC150M	From XLC-115 to XLC-150	XMR150W	XLC-115 - XLC-150 MECHANICAL LOCK UNITS
LC225M	From XLC-185 to XLC-225	XMR225W	XLC-185 - XLC-225 MECHANICAL LOCK UNITS
LC265M	XLC-265	XMR265W	XLC-265 MECHANICAL LOCK UNITS
LC330M	XLC-330	XMR330W	XLC-330 MECHANICAL LOCK UNITS
LC400M	XLC-400	XMR400W	XLC-400 MECHANICAL LOCK UNITS
LC500M	XLC-500	XMR500W	XLC-500 MECHANICAL LOCK UNITS
LC630M	XLC-630	XMR630W	XLC-630 MECHANICAL LOCK UNITS
LC800M	XLC-800	XMR800W	XLC-800 MECHANICAL LOCK UNITS
LC1000M	XLC-1000	XMR1000W	XLC-1000 MECHANICAL LOCK UNITS

Spare Contact Kit XLC Series

Model	Contactor to be Used Together ^{3P}	Type Code	Explanation
RKT/XLC-115	XLC-115	XMC-RKT 115W	XLC-115 SPARE CONTACT KIT XLC SERIES
RKT/XLC-150	XLC-150	XMC-RKT 150W	XLC-150 SPARE CONTACT KIT XLC SERIES
RKT/XLC-185	XLC-185	XMC-RKT 185W	XLC-185 SPARE CONTACT KIT XLC SERIES
RKT/XLC-225	XLC-225	XMC-RKT 225W	XLC-225 SPARE CONTACT KIT XLC SERIES
RKT/XLC-265	XLC-265	XMC-RKT 265W	XLC-265 SPARE CONTACT KIT XLC SERIES
RKT/XLC-330	XLC-330	XMC-RKT 330W	XLC-330 SPARE CONTACT KIT XLC SERIES
RKT/XLC-400	XLC-400	XMC-RKT 400W	XLC-400 SPARE CONTACT KIT XLC SERIES
RKT/XLC-500	XLC-500	XMC-RKT 500W	XLC-500 SPARE CONTACT KIT XLC SERIES
RKT/XLC-630	XLC-630	XMC-RKT 630W	XLC-630 SPARE CONTACT KIT XLC SERIES
RKT/XLC-800	XLC-800	XMC-RKT 800W	XLC-800 SPARE CONTACT KIT XLC SERIES
RKT/XLC-1000	XLC-1000	XMC-RKT 1000W	XLC-1000 SPARE CONTACT KIT XLC SERIES

AC Spare Coil XLC Series

Model	Contactor to be Used Together ^{3P}	Raid Coil Voltage VAC	Type Code	Explanation
XLCOL 150	From XLC-115 to XLC-150	220	XMCOL 150W	XLC-115 - XLC-150 220VAC AC SPARE COIL XLC SERIES
XLCOL 225	From XLC-185 to XLC-225	220	XMCOL 225W	XLC-185 - XLC-225 220VAC AC SPARE COIL XLC SERIES
XLCOL 330	From XLC-265 to XLC-330	220	XMCOL 330W	XLC-265 - XLC-330 220VAC AC SPARE COIL XLC SERIES
XLCOL 400	XLC-400	220	XMCOL 400W	XLC-400 220VAC AC SPARE COIL XLC SERIES
XLCOL 500	XLC-500	220	XMCOL 500W	XLC-500 220VAC AC SPARE COIL XLC SERIES
XLCOL 630	XLC-630	220	XMCOL 630W	XLC-630 220VAC AC SPARE COIL XLC SERIES
XLCOL 800	XLC-800	220	XMCOL 800W	XLC-800 220VAC AC SPARE COIL XLC SERIES
XLCOL-1000	XLC-1000	220	XMCOL 1000W	XLC-1000 220VAC AC SPARE COIL XLC SERIES

XMC-M Mini Contactor 220VAC (3P)

380 / 400 V Güç (kW)	Rated Current (A) AC3 (Ith)	Rated Current (A) AC1 (Ith)	Auxiliary Contact	Type Code	Explanation
3kW	6A	20A	1NO	XMC-6M-10S/220V	XMC-6M 220VAC 3kW 1NOXMC-M MINI CONTACTOR 220VAC (3P)
3kW	6A	20A	1NC	XMC-6M-01S/220V	XMC-6M 220VAC 3kW 1NCXMC-M MINI CONTACTOR 220VAC (3P)
4kW	9A	20A	1NO	XMC-9M-10S/220V	XMC-9M 220VAC 4kW 1NOXMC-M MINI CONTACTOR 220VAC (3P)
4kW	9A	20A	1NC	XMC-9M-01S/220V	XMC-9M 220VAC 4kW 1NCXMC-M MINI CONTACTOR 220VAC (3P)
5,5kW	12A	20A	1NO	XMC-12M-10S/220V	XMC-12M 220VAC 5,5kW 1NOXMC-M MINI CONTACTOR 220VAC (3P)
5,5kW	12A	20A	1NC	XMC-12M-01S/220V	XMC-12M 220VAC 5,5kW 1NCXMC-M MINI CONTACTOR 220VAC (3P)
7,5kW	16A	20A	1NO	XMC-16M-10S/220V	XMC-16M 220VAC 7,5kW 1NOXMC-M MINI CONTACTOR 220VAC (3P)
7,5kW	16A	20A	1NC	XMC-16M-01S/220V	XMC-16M 220VAC 7,5kW 1NCXMC-M MINI CONTACTOR 220VAC (3P)

XMC-M Mini Contactor 24V AC (3P)

380 / 400 V Güç (kW)	Rated Current (A) AC3 (Ith)	Rated Current (A) AC1 (Ith)	Auxiliary Contact	Type Code	Explanation
3kW	6A	20A	1NO	XMC-6M-10S/24V AC	XMC-6M 24VAC 3kW 1NOXMC-M MINI CONTACTOR 24V AC (3P)
3kW	6A	20A	1NC	XMC-6M-01S/24V AC	XMC-6M 24VAC 3kW 1NCXMC-M MINI CONTACTOR 24V AC (3P)
4kW	9A	20A	1NO	XMC-9M-10S/24V AC	XMC-9M 24VAC 4kW 1NOXMC-M MINI CONTACTOR 24V AC (3P)
4kW	9A	20A	1NC	XMC-9M-01S/24V AC	XMC-9M 24VAC 4kW 1NCXMC-M MINI CONTACTOR 24V AC (3P)
5,5kW	12A	20A	1NO	XMC-12M-10S/24V AC	XMC-12M 24VAC 5,5kW 1NOXMC-M MINI CONTACTOR 24V AC (3P)
5,5kW	12A	20A	1NC	XMC-12M-01S/24V AC	XMC-12M 24VAC 5,5kW 1NCXMC-M MINI CONTACTOR 24V AC (3P)
7,5kW	16A	20A	1NO	XMC-16M-10S/24V AC	XMC-16M 24VAC 7,5kW 1NOXMC-M MINI CONTACTOR 24V AC (3P)
7,5kW	16A	20A	1NC	XMC-16M-01S/24V AC	XMC-16M 24VAC 7,5kW 1NCXMC-M MINI CONTACTOR 24V AC (3P)

XMC-MD Mini Contactor 24V DC (3P)

380 / 400 V Güç (kW)	Rated Current (A) AC3 (Ith)	Rated Current (A) AC1 (Ith)	Auxiliary Contact	Type Code	Explanation
3kW	6A	20A	1NO	XMC-6MD-10S/24V	XMC-6MD 24VDC 3kW 1NOXMC-MD MINI CONTACTOR 24V DC (3P)
3kW	6A	20A	1NC	XMC-6MD-01S/24V	XMC-6MD 24VDC 3kW 1NCXMC-MD MINI CONTACTOR 24V DC (3P)
4kW	9A	20A	1NO	XMC-9MD-10S/24V	XMC-9MD 24VDC 4kW 1NOXMC-MD MINI CONTACTOR 24V DC (3P)
4kW	9A	20A	1NC	XMC-9MD-01S/24V	XMC-9MD 24VDC 4kW 1NCXMC-MD MINI CONTACTOR 24V DC (3P)
5,5kW	12A	20A	1NO	XMC-12MD-10S/24V	XMC-12MD 24VDC 5,5kW 1NOXMC-MD MINI CONTACTOR 24V DC (3P)
5,5kW	12A	20A	1NC	XMC-12MD-01S/24V	XMC-12MD 24VDC 5,5kW 1NCXMC-MD MINI CONTACTOR 24V DC (3P)
7,5kW	16A	20A	1NO	XMC-16MD-10S/24V	XMC-16MD 24VDC 7,5kW 1NOXMC-MD MINI CONTACTOR 24V DC (3P)
7,5kW	16A	20A	1NC	XMC-16MD-01S/24V	XMC-16MD 24VDC 7,5kW 1NCXMC-MD MINI CONTACTOR 24V DC (3P)



XTR-16M (Mini Series Thermal Relay) - 3 POLES


Thermal Setting Range	Related Contactors	Type Code	Explanation
0.1~0.16A	XMC-M / XMC-MD 6,9,12,16	XMTR-16M-0.16	XMTR-16M 0.1~0.16AXTR-16M MINI SERIES THERMAL RELAY - 3P
0.16~0.25A	XMC-M / XMC-MD 6,9,12,16	XMTR-16M-0.25	XMTR-16M 0.16~0.25AXTR-16M MINI SERIES THERMAL RELAY - 3P
0.25~0.4A	XMC-M / XMC-MD 6,9,12,16	XMTR-16M-0.4	XMTR-16M 0.25~0.4AXTR-16M MINI SERIES THERMAL RELAY - 3P
0.4~0.63A	XMC-M / XMC-MD 6,9,12,16	XMTR-16M-0.63	XMTR-16M 0.4~0.63AXTR-16M MINI SERIES THERMAL RELAY - 3P
0.63~1.0A	XMC-M / XMC-MD 6,9,12,16	XMTR-16M-1.0	XMTR-16M 0.63~1.0AXTR-16M MINI SERIES THERMAL RELAY - 3P
1.0~1.6A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-1,6	XMTR-16M 1.0~1.6AXTR-16M MINI SERIES THERMAL RELAY - 3P
1.6~2.5A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-2,5	XMTR-16M 1.6~2.5AXTR-16M MINI SERIES THERMAL RELAY - 3P
2.5~4A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-4	XMTR-16M 2.5~4AXTR-16M MINI SERIES THERMAL RELAY - 3P
4~6A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-6	XMTR-16M 4~6AXTR-16M MINI SERIES THERMAL RELAY - 3P
5~8A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-8	XMTR-16M 5~8AXTR-16M MINI SERIES THERMAL RELAY - 3P
6~9A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-9	XMTR-16M 6~9AXTR-16M MINI SERIES THERMAL RELAY - 3P
7~10A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-10	XMTR-16M 7~10AXTR-16M MINI SERIES THERMAL RELAY - 3P
9~13A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-13	XMTR-16M 9~13AXTR-16M MINI SERIES THERMAL RELAY - 3P
12~16A	XMC-M / XMC-MD 6,9,12,16	XTR-16M-16	XMTR-16M 12~16AXTR-16M MINI SERIES THERMAL RELAY - 3P

ACCESSORIES FOR MINI CONTACTORS
Auxiliary Contact 2 Poles

Model	Note	Ignition	Type Code	Explanation
AU-1M 01	Side	1NC	AC-S/1M 01	AU-1M 01 (1NC) SIDE AUXILLARY CONTACT 2 POLE
AU-1M 10	Side	1NO	AC-S/1M 10	AU-1M 10 (1NO) SIDE AUXILLARY CONTACT 2 POLE
AU-2M 02	Top	2NC	AC-T/2M 02	AU-2M 02 (2NC) TOP AUXILLARY CONTACT 2 POLE
AU-2M 11	Top	1NO+1NC	AC-T/2M 11	AU-2M 11 (1NO+1NC) TOP AUXILLARY CONTACT 2 POLE
AU-2M 20	Top	2NO	AC-T/2M 20	AU-2M 20 (2NO) TOP AUXILLARY CONTACT 2 POLE

Auxiliary Contact 4 Poles

Model	Note	Ignition	Type Code	Explanation
AU-4M 04	Top	4NC	AC-T/4M 04	AU-4M 04 (4NC) TOP AUXILLARY CONTACT 4 POLE
AU-4M 13	Top	1NO+3NC	AC-T/4M 13	AU-4M 13 (1NO+3NC) TOP AUXILLARY CONTACT 4 POLE
AU-4M 22	Top	2NO+2NC	AC-T/4M 22	AU-4M 22 (2NO+2NC) TOP AUXILLARY CONTACT 4 POLE
AU-4M 31	Top	3NO+1NC	AC-T/4M 31	AU-4M 31 (3NO+1NC) TOP AUXILLARY CONTACT 4 POLE
AU-4M 40	Top	4NO	AC-T/4M 40	AU-4M 40 (4NO) TOP AUXILLARY CONTACT 4 POLE

Replacement Coils for Mini Contactors

Model	Related Contactors	Related Coil Voltage	Type Code	Explanation
XMCOL-M	XMC-M	AC24V	XMCOL 16M/24V	AC Bobin 24V (XMC 6M-16M)EXTRA SHUNT COIL FOR MINI CONTACTOR
		AC220V	XMCOL 16M/220V	AC Bobin 220V (XMC 6M-16M)EXTRA SHUNT COIL FOR MINI CONTACTOR
XMCOL-MD	XMC-MD	DC24V	XMCOL 16D/24V	DC Bobin 24V (XMC 6MD-16MD)EXTRA SHUNT COIL FOR MINI CONTACTOR



Xkoren Electric low voltage contactors are produced as 3 and 4 poles according to IEC 60947-4-1 and TS EN 60947-4-1 norms and can be used safely in switching and controlling motors, lighting systems, compensation systems and various inductive loads in various usage categories.

Xkoren Electric low voltage contactors are produced as 3 and 4 poles according to IEC 60947-4-1 and TS EN 60947-4-1 norms and can be used safely in switching and controlling motors, lighting systems, compensation systems and various inductive loads in various usage categories.

When used together with thermal relays, they protect the circuit against overload currents.

According to usage categories; They are produced in rated current ranges from 20 A to 1200 A in AC1 and from 6 A to 1000 A in AC3. In contactors with a wide range of coil supply voltages from 24 V to 500 V; A 220 V powered coil is used as standard.

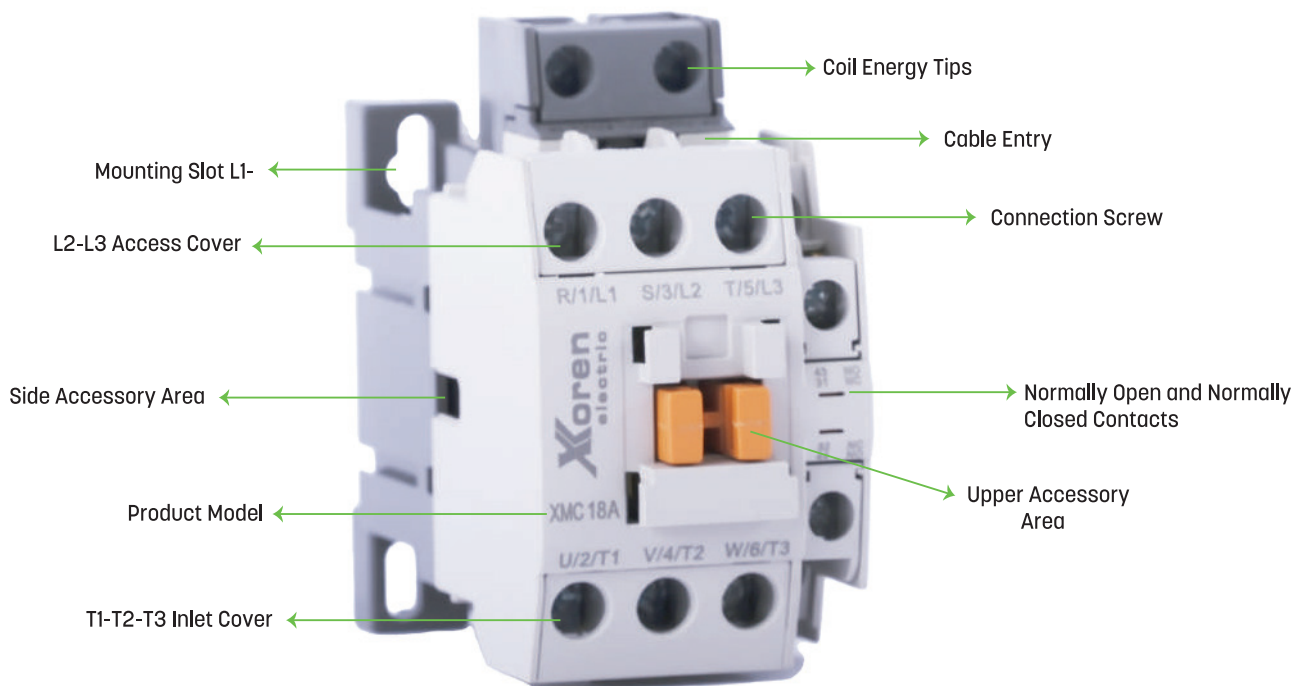
Auxiliary contacts that can be attached to the side are offered as 1NO or 1NC auxiliary contact up to 40 A, and 1NO+1NC in contactors larger than 40 A. Auxiliary contact, spare main contact sets, mechanical lock and spare coils that can be installed on it are also offered as accessories..

The contactor must be selected correctly according to the rated currents and the type of load that will pass through it. If the contactor selection is made correctly and there is no disturbance in the operating conditions, contactors are switching elements that can open and close millions of times without malfunctioning.

If they are used together with capacitors in compensation solutions, compensation blocks can also be installed and used as "compensation contactors". It limits the starting currents of the capacitors thanks to their current limiting contact blocks. Thus, the life of capacitors and contactors is extended and adhesion on the contactor contacts is prevented. In addition, compensation block and resistance cable are also offered to the user as accessories.

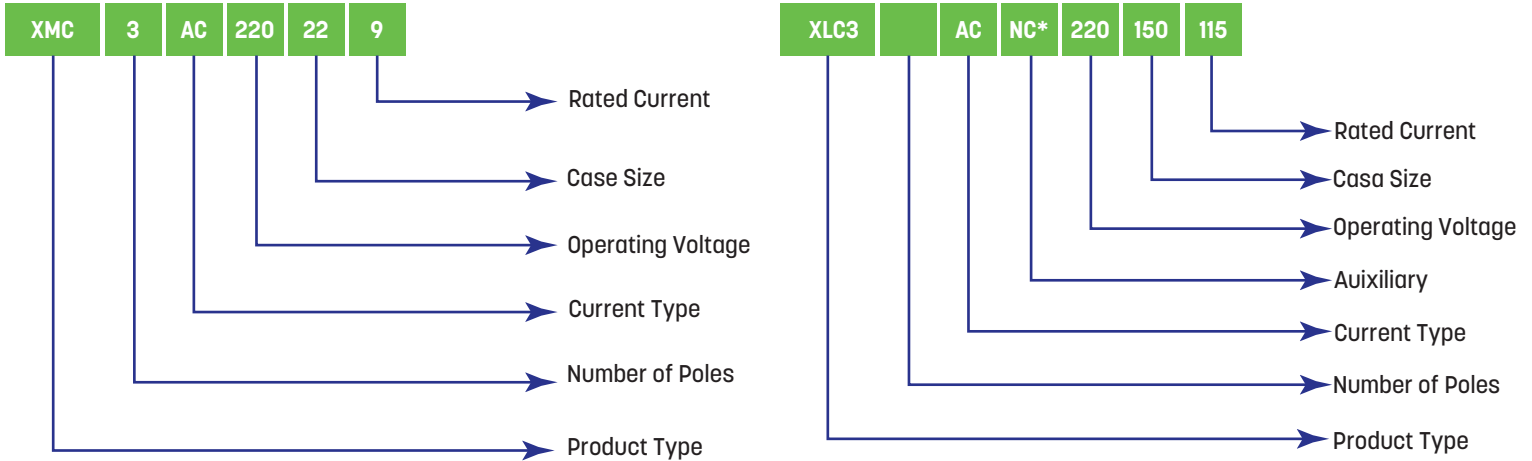
When a capacitor is activated, the presence of harmonic currents and the tolerance of the mains voltage can cause a continuous current flow of approximately 1.3 times the nominal current (In) of the capacitors. The presence of harmonic currents and the tolerance of the mains voltage can cause a continuous current flow of approximately 1.3 times the nominal current (In) of the capacitors. Depending on the manufacturing tolerance, the maximum power of a capacitor can reach 1.15 times its nominal power. Contactors should be selected with the capacity to carry thermal current $I_{th}=1.3 \times 1.15 \times I_n = 1.50 I_n$.

When choosing contactors to be used for various applications, the usage category in which the load controlled by the contactor is defined is essential. The usage categories determine the making current, breaking current and power factor depending on the application. The correct selection of a contactor for an application is that the contactor can reliably supply that current to the load, operate for the full intended service life, without overheating or causing the main poles to be utilized at a lower level.



Usage Categories Where Contactors Are Most Used

- **AC-1** Non-inductive loads, heating systems (When a 3-pole contactor is used to control single-phase heater circuits, the poles must be connected in series. If 2 poles are connected in series, the rated operating current can be taken as 1.6 times the contactor operating current, and if 3 poles are connected in series, it can be taken as 2.25 times.)
- **AC-2** Starting of ring-mounted asynchronous motors, starting in reverse direction, step starting, crane and metallurgical applications, wire and cable pulling machines
- **AC-3** Starting squirrel cage asynchronous motors For Ie<100 A Compressors, pumps, fans, valves, elevators, conveyors, air conditioners
- **AC-4** Starting of squirrel cage asynchronous motors, reverse operation, printing and printing machines, wire and cable machines, intermittent machine tools
- **AC-5a** AC current Switching of discharge lamps



3P MAGNETIC POWER CONTACTORS / XMC SERIES			XMC						
			22 Cases			40 Cases			
Type			XMC 9A	XMC 12A	XMC 18A	XMC 22A	XMC 32A	XMC 40A	
Number of Poles	p		3			3			
Rated Operating Voltage (Ue)	V		690			1000			
Rated Insulation Voltage (Ui)	V		690			1000			
Operating Frequency	Hz		50/60						
Rated Impulse Withstand Voltage (Uimp)	kV		6			8			
Standard			IEC/EN 60947-4-1			IEC/EN 60947-4-1			
Maximum Operating Period			1800			1800			
Electrical Life	op.		2500000			2000000			
Mechanical Life	op.		15000000			12000000			
Current and Power Values	AC-1	Rated Current	A	25	27	32	45	55	60
		200/240V	kW	2,5	3,5	4,5	5,5	7,5	11
	AC-3	380/440V	A	11	13	18	22	32	40
			kW	4	5,5	7,5	11	15	18,5
		500/550V	A	9	12	18	22	32	40
			kW	4	7,57	10,5	15	18,5	22
		690V	A	7	12	13	20	28	32
			kW	4	7,5	7,5	15	18,5	22
	1000V	A	6	9	9	18	20	23	
		kW	-	--	-	-	22	22	
	A	-	--	-	-	17	17		
AC-5	Rated Current	A	12	18	22	32	40	55	
Accessories (Standard)			1NO 1NC2			NO 2NC			
Accessory	Side		✓			✓			
	Top		✓			✓			
Type			XMTR 22K			XMTR 40K			
Rated Operating Voltage (Ue)	v		690			1000			
Rated Insulation Voltage (Ui)	v		690			1000			
Rated Impulse Withstand Voltage (Uimp)	kV		6			8			
Setting Range			0.1~22A			7~40A			

3P MAGNETIC POWER CONTACTORS / XMC SERIES				XMC									
				85 Cases				150 Cases			220 Cases		
Type				XMC 50	XMC 65	XMC 75	XMC 85	XMC 100	XMC 125	XMC 150	XMC 180	XMC 220	
Number of Poles	P			3				3			3		
Rated Operating Voltage (Ue)	V			1000				1000			1000		
Rated Insulation Voltage (Ui)	V			1000				1000			1000		
Operating Frequency	Hz			50/60				50/60			50/60		
Rated Impulse Withstand Voltage (Uimp)	kV			8				8			8		
Standard				IEC/EN 60947-4-1				IEC/EN 60947-4-1			IEC/EN 60947-4-1		
Maximum Operating Period				1800				1800			1800		
Electrical Life	op.			2000000				1000000			1000000		
Mechanical Life	op.			12000000				5000000			5000000		
Current and Power Values	AC-1	Rated Current	A	100	115	125	135	160	200	250	300	350	
			kW	15	18,5	22	25	30	37	45	55	75	
		AC-3	200/240V	A	55	65	75	85	105	130	150	185	225
				kW	22	30	37	45	55	60	75	90	132
			380/440V	A	50	65	75	85	105	130	150	185	225
				kW	30	33	37	45	55	60	70	110	132
	500/550V	A	43	60	64	75	85	90	100	180	200		
		kW	30	33	37	45	55	55	55	110	140		
	690V	A	28	35	42	45	65	60	60	120	150		
		kW	30	30	37	37	37	75	75	132	132		
	1000V	A	23	23	28	28	28	50	50	90	90		
		kW	23	23	28	28	28	50	50	90	90		
AC-5	Rated Current	A	75	85	100	105	125	145	180	220	250		
		kW	75	85	100	105	125	145	180	220	250		
Accessories (Standard)				1NO 1NC				2NO 2NC			2NO 2NC		
Accessory	Side			✓				✓			✓		
	Top			✓				✓			✓		
Type				XMTR 85K				XMTR 100K		XMTR 150K		XMTR 220K	
Rated Operating Voltage (Ue)	V			1000				1000		1000		1000	
Rated Insulation Voltage (Ui)	V			1000				1000		1000		1000	
Rated Impulse Withstand Voltage (Uimp)	kV			8				8		8		8	
Setting Range				24~85A				34~150A		34~150A		100~240A	

4P MAGNETIC POWER CONTACTORS XMC SERIES				XMC										
				22 Cases				40 Cases			85 Cases			
Type				XMC 9/4	XMC 12/4	XMC 18/4	XMC 22/4	XMC 32/4	XMC 40/4	XMC 50/4	XMC 65/4	XMC 75/4	XMC 85/4	
Number of Poles	P			4P										
Rated Operating Voltage (Ue)	V			690										
Rated Insulation Voltage (Ui)	V			1000										
Working Frequency	Hz			50/60										
Rated Impulse Withstand Voltage (Uimp) kV				6										
Maximum Operating Period AC1	Op/h			1800			1800			1200				
Electrical Life	op.			800000			1000000			12000000				
Mechanical Life	op.			15000000			15000000			15000000				
Current and Power Values	AC-1	Rated C.	A	25	25	40	40	50	60	80	100	110	135	
			kW	9	9	15	15	18	22	30	35	40	50	
		AC-3	200/240V	A	40	40	40	40	50	60	80	100	110	135
				kW	17	17	27	27	35	42	55	70	75	95
			380/400V	A	9	12	18	22	32	40	50	65	75	85
				kW	21	21	35	35	43	52	70	88	95	120
	500/550V	A	25	25	40	40	50	60	80	100	110	135		
		kW	27	27	44	44	55	52	88	110	120	150		
	690V	A	25	25	40	40	50	60	80	100	110	135		
		kW	25	25	40	40	50	60	80	100	110	135		
	Accessory	Side			✓				✓			✓		
		Top			✓				✓			✓		

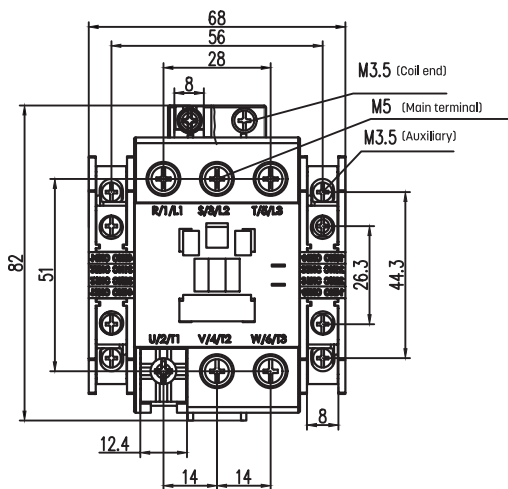
3P MAGNETIC POWER CONTACTORS / XLC SERIES				XLC		
				115 Case	150 Case	185 Case
Type				XLC-115	XLC-150	XLC-185
Number of Poles P				3		
Rated Operating Voltage (Ue) V				690		
Rated Insulation Voltage (Ui) V				1000		
Operating Frequency Hz				50/60		
Rated Impulse Withstand Voltage (Uimp) kV				8		
Standard				IEC/EN 60947-4-1		
Maximum Operating Period AC1 Op/h				1200		
Electrical Life op.				1000000	10000001	000000
Mechanical Life op.				5000000	5000000	5000000
Current and Power Values	AC-1		A	200	200	275
			AC-3	380/400V	kW	55
	A	115			150	185
	690V	kW		80	100	110
		A		70	90	108
					2NO 2NC2	NO 2NC2
Accessory		Side	✓	✓	✓	
		Top	✓	✓	✓	
Type				XLTR 185K	XLTR 185K	XLTR 185K XLTR 400K

3P MAGNETIC POWER CONTACTORS / XLC SERIES				XLC							
				225 Case	265 Case	330 Case	400 Case	500 Case	630 Case	800 Case	1000 Case
Type				XLC-225	XLC-265	XLC-330	XLC-400	XLC-500	XLC-630	XLC-800	XLC-1000
Number of Poles P				3							
Rated Operating Voltage (Ue) V				690							
Rated Insulation Voltage (Ui) V				1000							
Operating Frequency Hz				50/60							
Rated Impulse Withstand Voltage (Uimp) kV				8							
Standard				IEC/EN 60947-4-1							
Maximum Operating Period AC3 Op/h				1200	1200	1200	1200	1200	1200	1200	300
Electrical Life op.				1000000	1000000	1000000	1000000	500000	5000005	000005	00000
Mechanical Life op.				5000000	5000000	5000000	5000000	2500000	2500000	2500000	2500000
Akım ve Güç Değerleri	AC-1	Rated Current	A	280	350	360	430	580	850	850	1200
			AC-3	380/400V	kW	110	132	160	200	250	335
	A	225			265	330	400	500	630	800	1000
	690V	kW		140	160	220	280	330	450	475	670
		A		115	170	190	235	290	360	486	-
	Accessories (Standard)				2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
		Side	ok	ok	ok	ok	ok	ok	ok	ok	ok
		Top	ok	ok	ok	ok	ok	ok	ok	ok	ok
				XLTR 400K XLTR 500K	XLTR 400K XLTR 500K	XLTR 400K XLTR 500K	XLTR 400K XLTR 500K XLTR 800K	XLTR 500K XLTR 800K	XLTR 630K	XLTR 800K	LTR 1000K

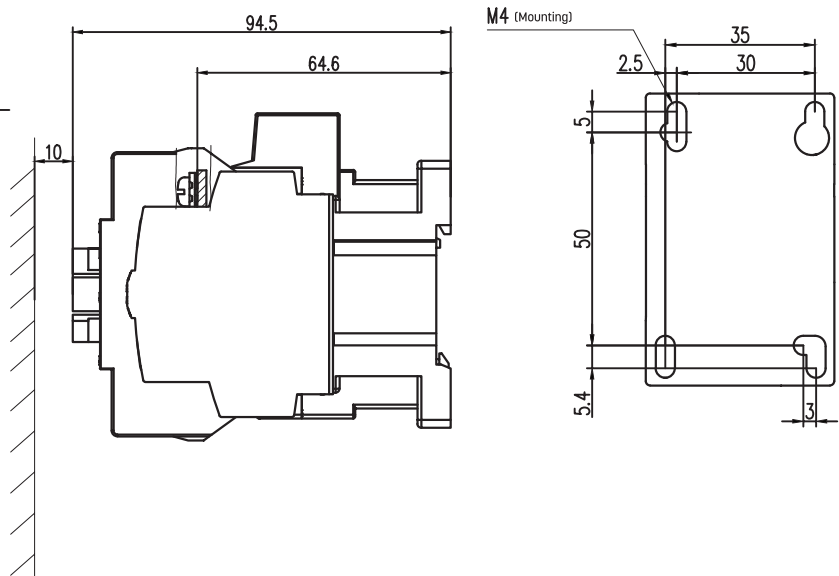
4P MAGNETIC POWER CONTACTORS XLC SERIES				XLC				
				115 Case	150 Case	185 Case	225 Case	265 Case
Type				XLC-115/4	XLC-150/4	XLC-185/4	XLC-225/4	XLC-265/4
Number of Poles		P		4				
Rated Operating Voltage (Ue)		V		690				
Rated Insulation Voltage (Ui)		V		1000				
Operating Frequency		Hz		50/60				
Rated Impulse Withstand Voltage (Uimp) kV				8				
Maximum Operating Period AC1				1200				
Electrical Life		op.		800000	800000	800000	800000	500000
Mechanical Life		op.		5000000	5000000	5000000	5000000	2500000
Durability (Number of Operations)	AC-1	Rated Current	A	200	200	275	280	350
		380/400V	kW	55	75	90	110	132
	AC-3		A	115	150	185	225	265
		690V	kW	80	100	110	140	160
			A	70	90	108	115	170
Accessory		Side		✓	✓	✓	✓	✓
		Top		✓	✓	✓	✓	✓

4P MAGNETIC POWER CONTACTORS XLC SERIES				XLC					
				330 Case	400 Case	500 Case	630 Case	800 Case	1000 Case
Type				XLC-330/4	XLC-400/4	XLC-500/4	XLC-630/4	XLC-800/4	XLC-1000/4
Number of Poles		P		4					
Rated Operating Voltage (Ue)		V		690					
Rated Insulation Voltage (Ui)		V		1000					
Operating Frequency		Hz		50/60					
Rated Impulse Withstand Voltage (Uimp) kV				8					
Maximum Operating Period AC1		(Op/H)		1200					
Electrical Life op.		op.		2500000					
Mechanical Life op.		op.		500000					
Durability (Number of Operations)	AC-1	Rated Current	A	360	430	580	850	850	1200
		380/400V	kW	160	200	250	400	400	500
	AC-3		A	330	400	500	800	800	1000
		690V	kW	220	280	330	475	475	670
			A	190	235	290	486	486	-
Accessory		Side		✓	✓	✓	✓	✓	✓
		Top		✓	✓	✓	✓	✓	✓

XMC 32~40 External Dimension (mm)

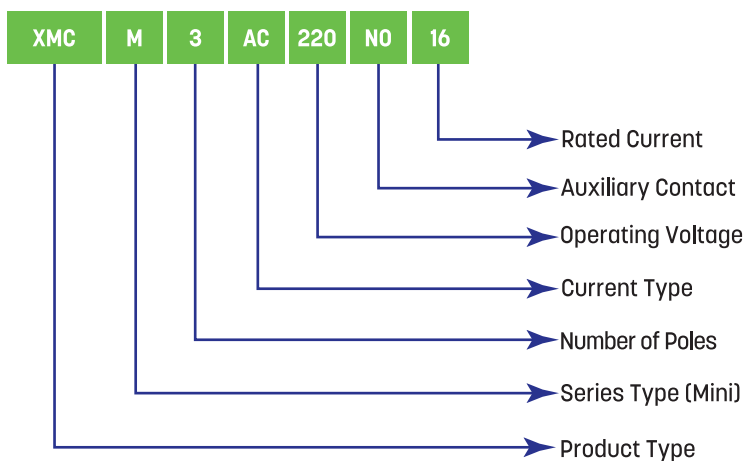
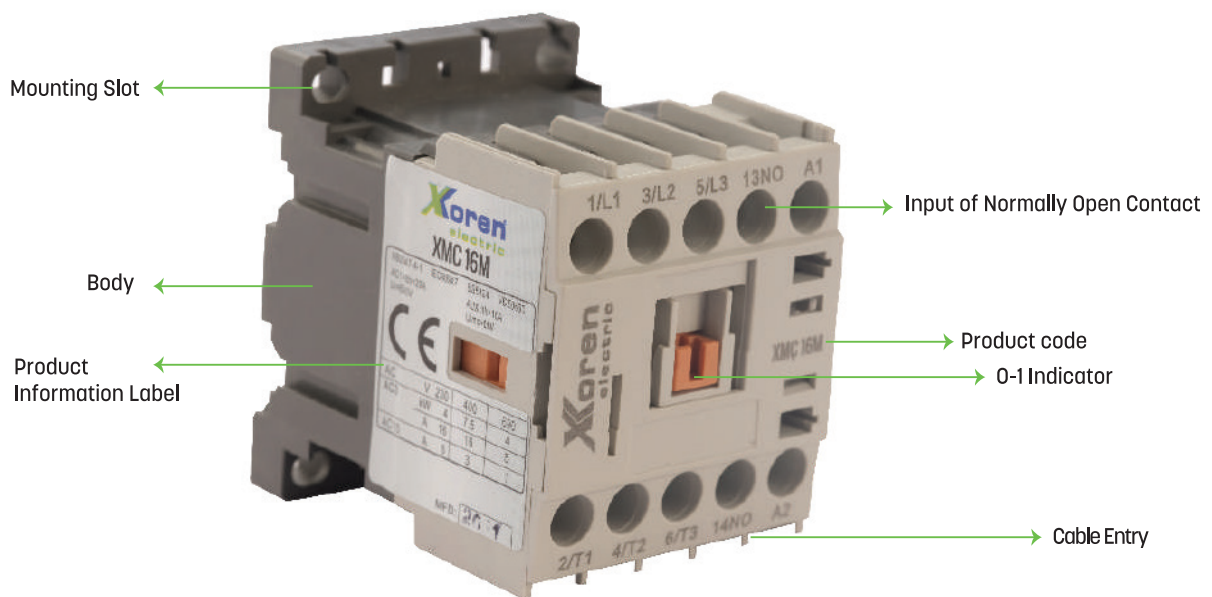


XMC 32~40 Loading Dimension



More compact in size than power contactors, it is used for remote switching and control of power circuits. They can be used together with the XTR-16M mini thermal relay.

It is widely used in gas stations, capacitor systems, protection of motors, lighting circuits, elevator systems and electric vending machines. XKoren Electric Mini Contactors are widely used in entrance-exit doors, shutter systems, coffee, laundry, saw machines, air conditioners, PCB cards, cooling and heating systems, water heaters, pump and railway applications, boat and conveyor systems, and escalators.



XMTR Series Thermal Relay

Model	Thermal Setting Range (A)	Contactor to be Used Together	Type Code	Explanation
XMTR 22K	0.1~0.16	XMC9A-22A	XTR 22K 0.16S A	XMTR 22KXMTR SERIES THERMAL RELAY 0.1~0.16A
	0.16~0.25	XMC9A-22A	XTR 22K 0.25S A	XMTR 22KXMTR SERIES THERMAL RELAY 0.16~0.25A
	0.25~0.4	XMC9A-22A	XTR 22K 0.40S A	XMTR 22KXMTR SERIES THERMAL RELAY 0.25~0.4A
	0.4~0.63	XMC9A-22A	XTR 22K 0.63S A	XMTR 22KXMTR SERIES THERMAL RELAY 0.4~0.63A
	0.63~1	XMC9A-22A	XTR 22K 1S A	XMTR 22KXMTR SERIES THERMAL RELAY 0.63~1A
	1~1.6	XMC9A-22A	XTR 22K 1.60S A	XMTR 22KXMTR SERIES THERMAL RELAY 1~1.6A
	1.6~2.5	XMC9A-22A	XTR 22K 2.5S A	XMTR 22KXMTR SERIES THERMAL RELAY 1.6~2.5A
	2.5~4	XMC9A-22A	XTR 22K 4S A	XMTR 22KXMTR SERIES THERMAL RELAY 2.5~4A
	4~6	XMC9A-22A	XTR 22K 6S A	XMTR 22KXMTR SERIES THERMAL RELAY 4~6A
	5~8	XMC9A-22A	XTR 22K 8S A	XMTR 22KXMTR SERIES THERMAL RELAY 5~8A
	6~9	XMC9A-22A	XTR 22K 9S A	XMTR 22KXMTR SERIES THERMAL RELAY 6~9A
	7~10	XMC9A-22A	XTR 22K 10S A	XMTR 22KXMTR SERIES THERMAL RELAY 7~10A
	9~13	XMC9A-22A	XTR 22K 13S A	XMTR 22KXMTR SERIES THERMAL RELAY 9~13A
	12~18	XMC9A-22A	XTR 22K 18S A	XMTR 22KXMTR SERIES THERMAL RELAY 12~18A
16~22	XMC9A-22A	XTR 22K 22S A	XMTR 22KXMTR SERIES THERMAL RELAY 16~22A	
XMTR 40K	7~10	XMC32A-40A	XTR 40K 10S A	XMTR 40KXMTR SERIES THERMAL RELAY 7~10A
	9~13	XMC32A-40A	XTR 40K 13S A	XMTR 40KXMTR SERIES THERMAL RELAY 9~13A
	12~18	XMC32A-40A	XTR 40K 18S A	XMTR 40KXMTR SERIES THERMAL RELAY 12~18A
	16~22	XMC32A-40A	XTR 40K 22S A	XMTR 40KXMTR SERIES THERMAL RELAY 16~22A
	18~25	XMC32A-40A	XTR 40K 26S A	XMTR 40KXMTR SERIES THERMAL RELAY 18~25A
	22~32	XMC32A-40A	XTR 40K 36S A	XMTR 40KXMTR SERIES THERMAL RELAY 22~32A
XMTR 85K	28~40	XMC32A-40A	XTR 40K 40S A	XMTR 40KXMTR SERIES THERMAL RELAY 28~40A
	24~36	XMC50A-85A	XTR 85K 36S A	XMTR 85KXMTR SERIES THERMAL RELAY 24~36A
	28~40	XMC50A-85A	XTR 85K 40S A	XMTR 85KXMTR SERIES THERMAL RELAY 28~40A
	34~50	XMC50A-85A	XTR 85K 50S A	XMTR 85KXMTR SERIES THERMAL RELAY 34~50A
	45~65	XMC50A-85A	XTR 85K 65S A	XMTR 85KXMTR SERIES THERMAL RELAY 45~65A
	54~75	XMC50A-85A	XTR 85K 75S A	XMTR 85KXMTR SERIES THERMAL RELAY 54~75A
XMTR 100K	63~85	XMC50A-85A	XTR 85K 85S A	XMTR 85KXMTR SERIES THERMAL RELAY 63~85A
	34~50	XMC100A-125A	XTR 100K 50S A	XMTR 100KXMTR SERIES THERMAL RELAY 34~50A
	39~57	XMC100A-125A	XTR 100K 57S A	XMTR 100KXMTR SERIES THERMAL RELAY 39~57A
	43~65	XMC100A-125A	XTR 100K 65S A	XMTR 100KXMTR SERIES THERMAL RELAY 43~65A
	54~80	XMC100A-125A	XTR 100K 80S A	XMTR 100KXMTR SERIES THERMAL RELAY 54~80A
XMTR 150K	65~100	XMC100A-125A	XTR 100K 100S A	XMTR 100KXMTR SERIES THERMAL RELAY 65~100A
	85~125	XMC100A-125A	XTR 100K 125S A	XMTR 100KXMTR SERIES THERMAL RELAY 85~125A
	34~50	XMC150A	XTR 150K 50S A	XMTR 100KXMTR SERIES THERMAL RELAY 34~50A
	54~80	XMC150A	XTR 150K 80S A	XMTR 150KXMTR SERIES THERMAL RELAY 54~80A
	65~100	XMC150A	XTR 150K 100S A	XMTR 150KXMTR SERIES THERMAL RELAY 65~100A
XMTR 220K	85~125	XMC150A	XTR 150K 125S A	XMTR 150KXMTR SERIES THERMAL RELAY 85~125A
	100~150	XMC150A	XTR 150K 150S A	XMTR 150KXMTR SERIES THERMAL RELAY 100~150A
	100~160	XMC180A-220A	XTR 220K 160S A	XMTR 220KXMTR SERIES THERMAL RELAY 100~160A
	120~180	XMC180A-220A	XTR 220K 180S A	XMTR 220KXMTR SERIES THERMAL RELAY 120~180A
	160~240	XMC180A-220A	XTR 220K 240S A	XMTR 220KXMTR SERIES THERMAL RELAY 160~240A



XLTR Series Thermal Relay


Model	Thermal Setting Range A	Contactors to be Used Together	Type Code	Explanation
XLTR 18K 2,5S W	1,6-2,5A	XLC-9 - XLC-25 from	XTR 18K 2,5S W	XLTR 18K 2,5S 1,6-2,5A XLTR SERIES THERMAL RELAY
XLTR 18K 4S W	2,5-4A	XLC-9 - XLC-25 from	XTR 18K 4S W	XLTR 18K 4S 2,5-4A XLTR SERIES THERMAL RELAY
XLTR 18K 6S W	4-6A	XLC-9 - XLC-25 from	XTR 18K 6S W	XLTR 18K 6S 4-6A XLTR SERIES THERMAL RELAY
XLTR 18K 8S W	5,5-8A	XLC-9 - XLC-25 from	XTR 18K 8S W	XLTR 18K 8S 5,5-8A XLTR SERIES THERMAL RELAY
XLTR 18K 10S W	7-10A	XLC-9 - XLC-25 from	XTR 18K 10S W	XLTR 18K 10S 7-10A XLTR SERIES THERMAL RELAY
XLTR 18K 13S W	9-13A	XLC-9 - XLC-25 from	XTR 18K 13S W	XLTR 18K 13S 9-13A XLTR SERIES THERMAL RELAY
XLTR 18K 18S W	12-18A	XLC-9 - XLC-25 from	XTR 18K 18S W	XLTR 18K 18S 12-18A XLTR SERIES THERMAL RELAY
XLTR 18K 25S W	17-25A	XLC-9 - XLC-25 from	XTR 18K 25S W	XLTR 18K 25S 17-25A XLTR SERIES THERMAL RELAY
XLTR 32K 32S W	23-32A	XLC-25 - XLC-32 from	XTR 32K 32S W	XLTR 32K 32S 23-32A XLTR SERIES THERMAL RELAY
XLTR 32K 36S W	28-36A	XLC-25 - XLC-32 from	XTR 32K 36S W	XLTR 32K 36S 28-36A XLTR SERIES THERMAL RELAY

XLTR Series Thermal Relay


Model	Thermal Setting Range A	Contactors to be Used Together	Type Code	Explanation
XLTR 185K 50	30-50A	XLC-115 - XLC-185 from	XTR 185K 50S W	XLTR 185K 50S 30-50A XLTR SERIES THERMAL RELAY
XLTR 185K 80	48-80A	XLC-115 - XLC-185 from	XTR 185K 80S W	XLTR 185K 80S 48-80A XLTR SERIES THERMAL RELAY
XLTR 185K 100	60-100A	XLC-115 - XLC-185 from	XTR 185K 100S W	XLTR 185K 100S 60-100A XLTR SERIES THERMAL RELAY
XLTR 185K 150	90-150A	XLC-115 - XLC-185 from	XTR 185K 150S W	XLTR 185K 150S 90-150A XLTR SERIES THERMAL RELAY
XLTR 400K 220	132-220	XLC-185A - XLC-400 from	XTR 400K 220S W	XLTR 400K 220S 132-220A XLTR SERIES THERMAL RELAY
XLTR 500K 330	200-330A	XLC-225 - XLC-500 from	XTR 500K 330S W	XLTR 500K 330S 200-330A XLTR SERIES THERMAL RELAY
XLTR 500K 500	300-500A	XLC-225 - XLC-500 from	XTR 500K 500S W	XLTR 500K 500S 300-500A XLTR SERIES THERMAL RELAY
XLTR 800K 630	380-630	XLC-400 - XLC-800 from	XTR 800K 630S W	XLTR 800K 630S 380-630 XLTR SERIES THERMAL RELAY

Sometimes excessive currents occur in electrical lines or systems. The resulting excessive currents and resulting heat damage the product connected to the power line or system or cause the cables to burn. XKoren Electric thermal relays are used to minimize this damage.

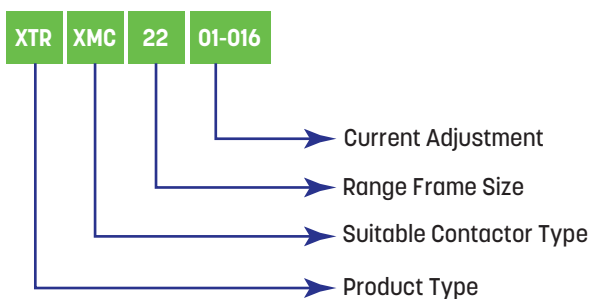
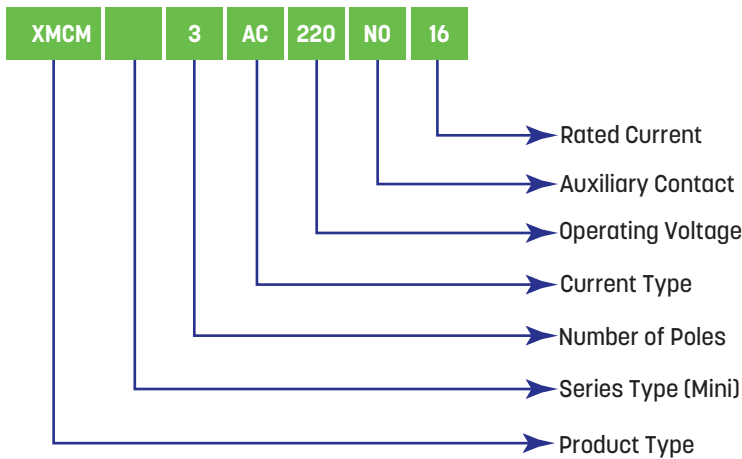
XKoren Electric thermal relays disable the motor through the contactor in case of overload or phase interruption, and together with the thermal relay, the contactor becomes a much more useful and highly protected product. Because, together with the thermal relay connected to the contactor, both the contactor is damaged due to overcurrent.

It avoids overheating and the user is protected against overcurrent. XKoren Electric thermal relays up to 630A in accordance with IEC60947 standard and CE; It is produced to be compensated against the environmental temperature.

Auxiliary contacts: The thermal relay activates two contacts, one closing and the other breaking. The breaking contact deactivates the contactor and cuts off the energy to the motor. The closing contact can be used for different purposes. (1NO + 1NC)

XKoren Electric Mini Thermal Relays perform the same function as a normal thermal relay. It is used together with mini contactors.

Thermal Setting Range	Type Code	Related Contactor
1 - 1.6A	XTR-16M-1.6	XMC-M/XMC-MD 6, 9,12, 16A
1.6 - 2.5A	XTR-16M-2.5	
2.5 - 4A	XTR-16M-4	
4 - 6A	XTR-16M-6	
5 - 8A	XTR-16M-8	
6 - 9A	XTR-16M-9	
7 - 10A	XTR-16M-10	
9 - 13A	XTR-16M-13	
12 - 16A	XTR-16M-16	

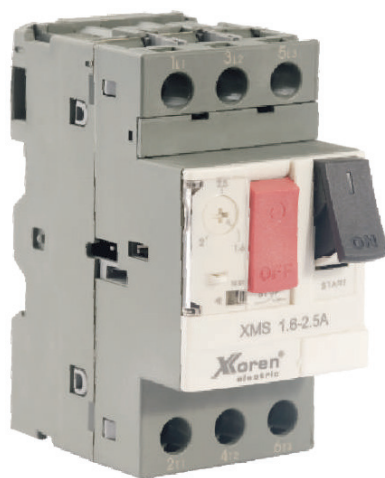


XMS SERIES MOTOR PROTECTION SWITCHES



Motor Protection Switches

Model	Rated Power (kW) AC-3 400 V	Rated Current (A)	Thermal Setting Range (A)	Cutting Capacity Icu (kA) 400 V	Type Code	Explanation
XMS-32K	0,02	0,16	0.1-0.16	100	XMS-32K/0.16S	XMS-32K 0,02W (0.1~0.16A) MOTOR PROTECTION SWITC
XMS-32K	0,06	0,25	0.16-0.25	100	XMS-32K/0.25S	XMS-32K 0,06W (0.16~0.25A) MOTOR PROTECTION SWITC
XMS-32K	0,09	0,4	0.25-0.4	100	XMS-32K/0.4S	XMS-32K 0,09W (0.25~0.4A) MOTOR PROTECTION SWITC
XMS-32K	0,12	0,63	0.4-0.63	100	XMS-32K/0.63S	XMS-32K 0,12W (0.4~0.63A) MOTOR PROTECTION SWITC
XMS-32K	0,25	1	0.63-1	100	XMS-32K/1S	XMS-32K 0,25W (0.63-1A) MOTOR PROTECTION SWITC
XMS-32K	0,55	1,6	1-1.6	100	XMS-32K/1.6S	XMS-32K 0,55W (1-1.6A) MOTOR PROTECTION SWITC
XMS-32K	0,75	2,5	1.6-2.5	100	XMS-32K/2.5S	XMS-32K 0,75W (1.6~2.5A) MOTOR PROTECTION SWITC
XMS-32K	1,5	4	2.5-4	100	XMS-32K/4S	XMS-32K 1,5W (2.5-4A) MOTOR PROTECTION SWITC
XMS-32K	2,2	6,3	4-6,3	100	XMS-32K/6S	XMS-32K 2,2W (4-6,3A) MOTOR PROTECTION SWITC
XMS-32K	4	10	6-10	50	XMS-32K/10S	XMS-32K 4W (6-10A) MOTOR PROTECTION SWITC
XMS-32K	5,5	14	9-14	50	XMS-32K/14S	XMS-32K 5,5W (9-14A) MOTOR PROTECTION SWITC
XMS-32K	7,5	18	13-18	20	XMS-32K/18S	XMS-32K 7,5W (13-18A) MOTOR PROTECTION SWITC
XMS-32K	9	23	17-23	15	XMS-32K/23S	XMS-32K 9W (17-23A) MOTOR PROTECTION SWITC
XMS-32K	11	25	20-25	15	XMS-32K/25S	XMS-32K 11W (20-25A) MOTOR PROTECTION SWITC
XMS-32K	15	32	24-32	15	XMS-32K/32S	XMS-32K 15W (24-32A) MOTOR PROTECTION SWITC
XMS-80K	18,5	40	25-40	50	XMS-80K/40S	XMS-80K 18,5W (25-40A) MOTOR PROTECTION SWITC
XMS-80K	30	63	40-63	50	XMS-80K/63S	XMS-80K 30W (40-63A) MOTOR PROTECTION SWITC
XMS-80K	40	80	56-80	50	XMS-80K/80S	XMS-80K 40W (56-80A) MOTOR PROTECTION SWITC



Auxiliary Contacts

Model	Assembly	Auxiliary Contacts	Type Code	Explanation
FX-T20	Top	2NO	XMS-32K-AC-T20	FX-T20 Top 2NO AUXILIARY CONTACT
FX-T11	Top	1NO1NC	XMS-32K-AC-T11	FX-T11 Top 1NO1NC AUXILIARY CONTACT
FX-T02	Top	2NC	XMS-32K-AC-T02	FX-T02 Top 2NC AUXILIARY CONTACT
FX-S20	Side	2NC	XMS-32K-AC-S20	FX-S20 Side 2NO AUXILIARY CONTACT
FX-S11	Side	1NO1NC	XMS-32K-AC-S11	FX-S11 Side 1NO1NC AUXILIARY CONTACT
FX-S02	Side	2NC	XMS-32K-AC-S02	FX-S02 Side 2NC AUXILIARY CONTACT
FX-S11	Side	1NO1NC	XMS-80K-AC-S11	FX-S11 Side 1NO1NC AUXILIARY CONTACT
FX-S20	Side	2NO	XMS-80K-AC-S20	FX-S20 Side 2NO AUXILIARY CONTACT

Alarm Contact

Model	Assembly	Auxiliary Contact	Type Code	Explanation
AL-T20	Top	2NO	XMS-32K-AL-20	AL-T20 Top 2NO ALARM CONTACT
AL-T11	Top	1NO1NC	XMS-32K-AL-11	AL-T11 Top 1NO1NC ALARM CONTACT
AL-T02	Top	2NC	XMS-32K-AL-02	AL-T02 Top 2NC ALARM CONTACT

Shunt Trip

Model	Assemble	Auxiliary Contact	Type Code	Explanation
NC-240	Açtırma Bobini	AC220-230V	XMS-32K-NC-240	AL-T20 TOP 2NO

Under Voltage Coil

Model	Assemble	Auxiliary Contact	Type Code	Explanation
LV-240	Düşük Gerilim Bobini	AC220-230V	XMS-32K-LV-240	LV-240 AC220-230V UNDER VOLTAGE COIL



XKoren Electric Motor Protection Switches offer cost-effective solutions in different combinations to meet your engine protection needs in every field. It protects the motor and its circuit with thermal and magnetic protection units against phase losses, thermal overcurrents and short circuit currents.

They are used safely in all sectors with their ease of installation, compact size, wide amperage range and high performance.

It is used in engine applications in conveyors, ventilation, automatic control systems, compressors, crane panels, chemical industry, pharmaceutical industry, building automation, power stations, machines and benches. In XKoren motor protection switches, the XMS 32K model is used in motors up to 15 kW and the XMS 80K model is used in motors up to 40 kW.

Overcurrent Protection

In accordance with IEC 60947-1 standards; It applies to low voltage switchgear and control arrangements, referred to as equipment or devices, intended to be connected to circuits whose rated voltage does not exceed 1000 V AC or 1500 V DC.

Distribution Protection

Operating characteristics of the motor protection switch when the phases are balanced.

Current Multiple Adjustment	Switching on Time	Situation	Ambient Temperature
1.05	1 hour no switching on	Starting	+20°C, ±2 °C
1.3	1 hour switching on	After first power on	
1.5	<2 minutes on		

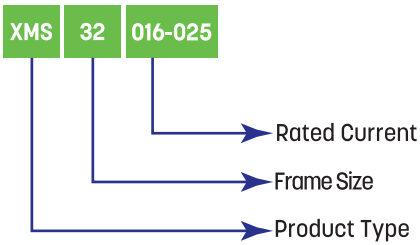
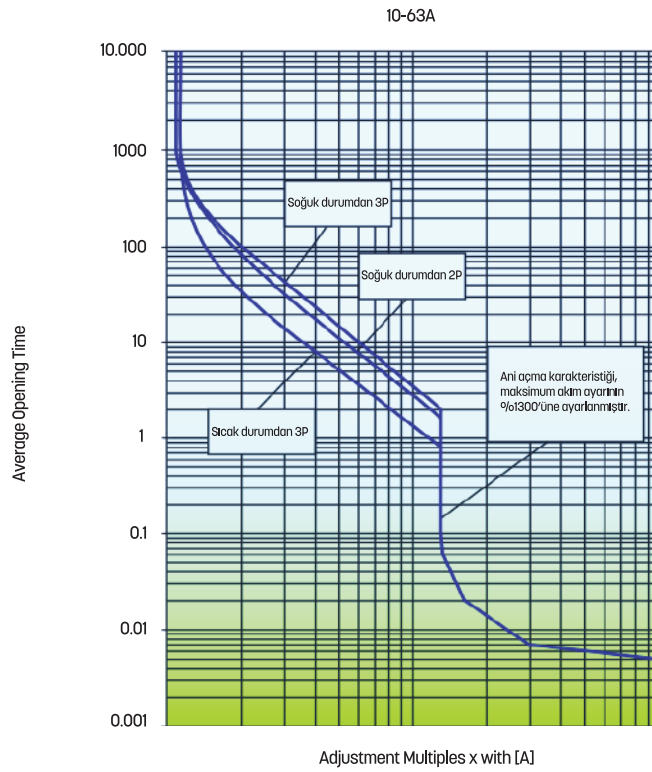
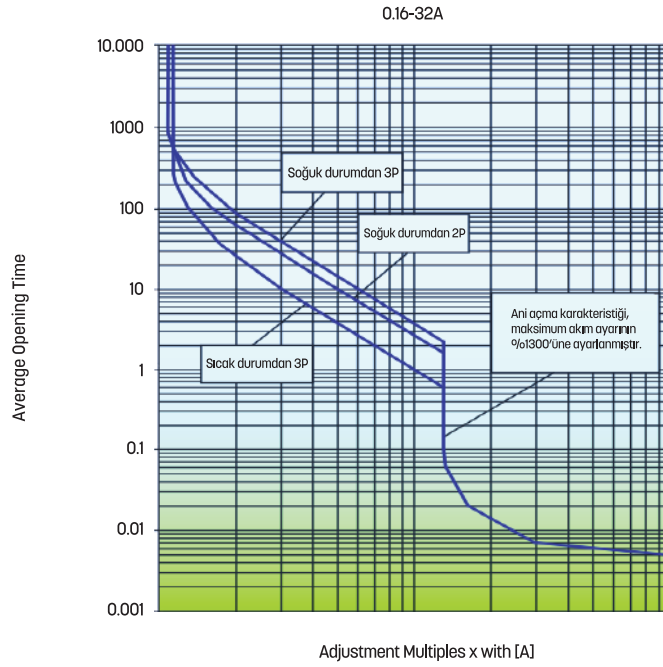
Motor Protection: Operating characteristics of balanced load of each phase of the motor protection switch.

Current Multiple Adjustment	Switching on Time	Situation	Ambient Temperature
1.05	2 hours no Switching on	Starting	+20°C, ±2 °C
1.2	2 hours switching on	After first power on	
1.5	2 minutes on		
7.2	2-10 seconds on	Starting	

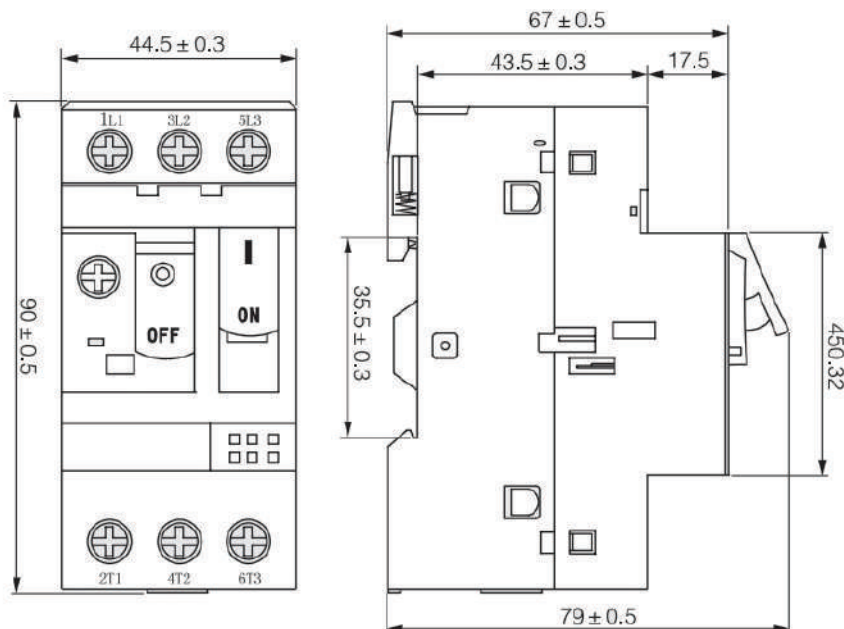
Phase Break: Operating characteristics of the motor protection switch when the load is unbalanced.

Current Multiple Adjustment		Switching on Time	Ambient Temperature
From any two phases	from phase 3		
1.0	0.9	2 hours no Switching on	+20°C, ±2 °C
1.15	0	Open before 2 hours	

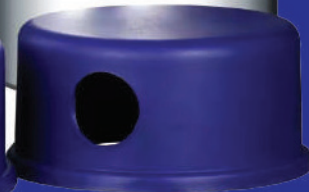
Operating Curves and Temperature Compensation



MOTOR PROTECTION SWITCH		32K Case						80K Case												
Available Adjustable Type		XMS 32 K						XMS 80 K												
Number of Poles	P	3						3												
Rated Operating Voltage (Ue)	V	690						690												
Rated Operating Frequency	Hz	50/60						50/60												
Rated Insulation Voltage (Ui)	V	690/1000						1000												
Rated Impulse Withstand Voltage (Uimp)	kV	6/8						8												
Usage Category	IEC EN 60947-2 (Circuit Breaker)	Cat. A						Cat. A												
	IEC EN 60947-4 (Motor Drive)	AC 3						AC 3												
Electrical Life	op	25000						25000												
Mechanical Life	op	50000						50000												
Maximum Operating Period	Op/h	25						25												
Operating Temperature	°C	-20 ~ +60						-20 ~ +60												
Instantaneous Short Circuit Trip Current		13 x Ie						13 x Ie												
Overload Protection		•						•												
Phase Error Function		•						•												
Trip Display Function		X						•												
Test Function		•						•												
Weight (g)		320 / 1000						2200												
Short Circuit Cutting Capacity (kA)	Rated Operating Current (Ie)	Thermal Release Adjustment Range (A)	220V 240V 230V		415V 400V		460V 440V		525V 500V		690V 600V		220V 240V 230V		415V 400V		460V 440V		525V 500V	
			Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
	0,16	0,1~0,16	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-
	0,25	0,16~0,25	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-
	0,4	0,25~0,4	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-
	0,63	0,4~0,63	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-
	1	0,63~1	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-
	1,6	1~1,6	100	100	100	100	100	100	100	100	100	3	3	-	-	-	-	-	-	-
	2,5	1,6~2,5	100	100	100	100	100	100	100	50	38	3	3	-	-	-	-	-	-	-
	4	2,5~4	100	100	100	100	50	100	15	11	3	3	-	-	-	-	-	-	-	-
	6	4~6,3	100	100	100	100	15	11	10	8	3	3	-	-	-	-	-	-	-	-
	10	6~10	100	100	50	38	15	11	6	5	3	3	-	-	-	-	-	-	-	-
	14	9~14	100	100	50	38	10	8	6	5	3	3	-	-	-	-	-	-	-	-
	18	13~18	50	38	20	15	10	8	6	5	3	3	-	-	-	-	-	-	-	-
	23	17~23	40	30	15	11	8	6	6	5	3	3	-	-	-	-	-	-	-	-
	25	20~25	40	30	15	11	8	6	6	5	3	3	-	-	-	-	-	-	-	-
	32	24~32	30	22	15	11	6	4	5	4	3	3	-	-	-	-	-	-	-	-
40	25~40	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	15	-	
63	40~63	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	12	-	
80	56~80	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	8	-	



XCM, XCT, XCF, XCK, XCAM SERIES CAPACITORS



LV POWER CAPACITORS

230V Monophase Capacitor

Product Code	230V (kVAR)	400V (kVAR)	Dimensions (mm)	Capitance (µF)	Current Drawn (A)
XCM-0.25	0,25	0,76	45*65	15.1 µF	1.1A
XCM-0.5	0,5	1,51	45*65	30.1 µF	2.2A
XCM-1	1	3,02	45*85	60.2µF	4.3A
XCM-1.5	1,5	4,54	50*105	90.3 µF	6.5A
XCM-2.5	2,5	7,56	55*130	151.5 µF	10.9A
XCM-5	5	15,12	76*240	301 µF	21.7A

400V Three Phase Capacitor

Product Code	400V (kVAR)	440V (kVAR)	Dimensions (mm)	Capitance (µF)	Current Drawn (A)
XCT-0.5	0,5	0,61	50*105	10 µF	0,7
XCT-1.0	1	1,21	50*105	19.9 µF	1,4
XCT-1.5	1,5	1,82	50*125	29.9 µF	2,2
XCT-2.5	2,5	3,03	76*175	49.8µF	3,6
XCT-5	5	6,05	76*175	99.5 µF	7,2
XCT-7.5	7,5	9,08	76*240	149.3µF	10,8
XCT-10	10	12,1	76*240	199 µF	14,4
XCT-12.5	12,5	15,12	96*240	248.8µF	18
XCT-15	15	18,15	96*240	298.6 µF	21,7
XCT-20	20	24,2	106*240	398.1 µF	28,9
XCT-25	25	30,25	116*240	497.6 µF	36,1
XCT-30	30	36,3	116*290	597.1µF	43,3
XCT-40	40	48,4	136*290	796.2 µF	57,7
XCT-50	50	60,5	136*290	995.2 µF	72,2

PERMANENT CIRCUIT MOTOR - FAN CAPACITORS



400-450V Motor - Fan Capacitor			
	Product Code	Capitance (μF)	Dimensions (mm)
Square Type	XCF-1.5M UF	1.5 μF	37*13*23
	XCF-2.5M UF	2.5 μF	38*15*25
Straight Type	XCAM-3S UF	3 μF	30*50
	XCAM-4S UF	4 μF	30*50
	XCAM-6S UF	6 μF	30*50
	XCAM-8S UF	8 μF	30*50
	XCAM-10S UF	10 μF	30*50
	XCAM-12S UF	12 μF	30*50
Straight Type	XCAM-8L UF	8 μF	30*50
	XCAM-10L UF	10 μF	30*50
	XCAM-16L UF	16 μF	40*70
	XCAM-20L UF	20 μF	40*70
	XCAM-25L UF	25 μF	40*70
	XCAM-35L UF	35 μF	45*93
	XCAM-40L UF	40 μF	45*93
	XCAM-45L UF	45 μF	50*92
	XCAM-50L UF	50 μF	50*92
	XCAM-60L UF	60 μF	50*100
	XCAM-70L UF	70 μF	50*120
	XCAM-80L UF	80 μF	55*120
XCAM-90L UF	90 μF	55*120	
XCAM-100L UF	100 μF	55*120	



4+4 Pin Air Conditioner Capacitor

Product Code	Capitance (µF)	Dimensions dxh (mm)
XCK-30UF	30 µF	50*85
XCK-35UF	35 µF	50*85
XCK-50UF	50 µF	50*100
XCK-55UF	55 µF	50*100
XCK-60UF	60 µF	50*110

2+3+4 Pin Air Conditioner

Product Code	Capitance (µF)	Dimensions dxh (mm)
XCK-30+5 UF	30+5 µF	50*100
XCK-35+5 UF	35+5 µF	50*100
XCK-50+5 UF	50+5 µF	50*125
XCK-55+5 UF	55+5 µF	50*125
XCK-60+5 UF	60+5 µF	50*130

In distribution systems, XKoren Electric Capacitors provide reactive power to balance inductive loading from devices such as motors, transformers, arc furnaces and lighting loads. While XCM single-phase and XCT three-phase capacitors are used for both starting and compensation in motors; CF square type and XCAM flat type XKoren capacitors are used in motor and fan systems. XCK is used in air conditioning systems. Including the inclusion of capacitors in a power distribution system, increasing system load capacity, reducing losses and improving power factor; Compensation systems are used to reduce the reactive energy drawn from the network by the motors connected to the system. By producing reactive power, capacitors enable the use of reactive power through themselves instead of the system. In this way, it offers economical and operational solutions such as low cable cross-section, use of smaller transformers and compact switches.

Low voltage power capacitors are designed for horizontal or vertical use. They are easily mounted to the panel with M12 bolts on the base. Connection terminals can be screwed or with cable lugs, but copper cable must be used. In addition, the area where power capacitors are used should be well ventilated and cool, and should be away from environments with objects that emit heat. If the area where the power capacitors are located is not cool enough and in panels consisting of high-power compensation capacitors, a forced ventilation fan must be used. There should be no switches, fuses or any separation equipment between the capacitor and the discharging device. In order to prevent explosion or burning due to the increase in internal pressure in low voltage power capacitors in case of overload, XKoren Electric capacitors separate themselves from the circuit to which they are connected by mechanically breaking the transmission line between the plates and terminals as the internal pressure increases.

Power Capacitor: XCM-XCT

Operating Voltage	230 V - 440 V
Operating Frequency (Hz)	50/60 Hz
Overcurrent	1,5 x In
Loss	<0,45 Watt/kVAr
Capacitor Tolerance	±5% / +10%
Lifetime	100.000 Hours
Ambient Temperature	-25C - +65C
Moisture	95%
Altitude	Max. 2000m
Mounting Position	Vertical - Horizontal
Body	Aluminum Body
Discharge Resistance	Discharge Resistance Drops Below 50 Volts in 60 Seconds.
Protection Feature	Dry Type Over Pressure Switching on, Self-Repairing
Impregnation	Non-PCB Resin Protection
Standard	IEC 60831 - 1-2

Motor Capacitor: XCAM

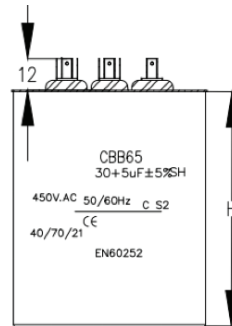
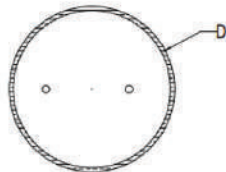
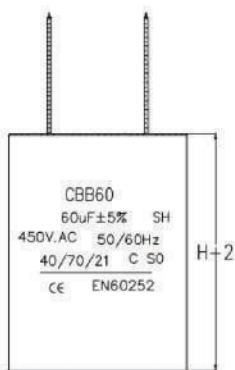
Nominal Voltage (Un)	400 - 450 V
Frequency (Hz)	50/60 Hz
Tolerance	+-%5
Operating Temperature	-25C -+85C
Loss Factor	<<0,002 (50 Hz)
Inter-Terminal Test	2Un for 2 sec.
Max. Allowable Voltage	1.1 Un
Max. Allowed Current	1.3 In
External Casing	Non-flammable
External Terminal	6.3mm Cable
Rosin	Polyurethane
Suitability	Non-PCB, No Risk of RESIDUAL
Withstand Voltage	3000 V 2 sn.
Lifetime	3000h (C) - 10000h (B)
Standart	EN 60252 - CE

Air Conditioner Condenser: XCK

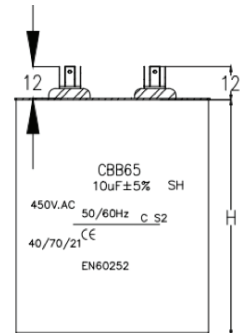
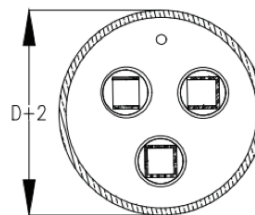
Rated Voltage	400V
Operating Frequency	50/60 Hz
Tolerance	±%5
Ut-Term	2xUn AC - 2sec.
Ut-Earth	3kV AC
Case Type	Aluminium
Loss Factor	<15x10 ⁻⁴
Max. Income	Unx1.1
Max. Flow	Inx1,3
θ min.	-25 °C
θ max.	+80 °C
Height Above Sea Level	<2000 mt
Protection Class	S0
Standart	IEC 60252-1
Type	A 30,000 Hours B 10,000 Hours C 3000 Hours

Fan Capacitor: XCF

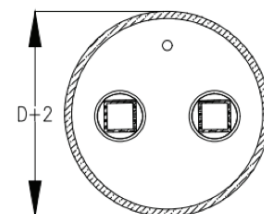
Nominal Voltage (Un)	450V
Frequency	50/60 Hz
Tolerance	+-%5
Operating Temperature	-25C - +85C
Loss Factor	<<0,002 (50 Hz)
External Casing	Plastic
External Terminal	6.3 mm Cable
Protection Class	S0
Standard	EN 60252 - CE
Standard	IEC 60252-1



KAPAKTA(2+3+4)



Kapakta(4+4)



XTS, XTFS SERIES AUTOMATIC TRANSFER SWITCHES



Switch Disconnecter Transfer Switches (XTS Series)

Model	Rated Current (A)	Type Code	Açıklama
XTS	63A	XTS-4P/63	4P 63A AUTOMATIC TRANSFER SWITCH
XTS	100A	XTS-4P/100	4P 100A AUTOMATIC TRANSFER SWITCH
XTS	125A	XTS-4P/125	4P 125A AUTOMATIC TRANSFER SWITCH


Automatic Transfer Switches (XTFS Series)

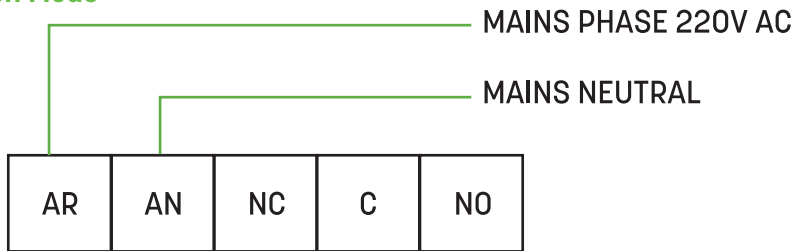
Model	Rated Current (A)	Type Code	Açıklama
XTFS	100A	XTFS-4P/100	4P 100A AUTOMATIC TRANSFER SWITCH
XTFS	160A	XTFS-4P/160	4P 160A AUTOMATIC TRANSFER SWITCH
XTFS	250A	XTFS-4P/250	4P 250A AUTOMATIC TRANSFER SWITCH
XTFS	400A	XTFS-4P/400	4P 400A AUTOMATIC TRANSFER SWITCH
XTFS	630A	XTFS-4P/630	4P 630A AUTOMATIC TRANSFER SWITCH
XTFS	800A	XTFS-4P/800	4P 800A AUTOMATIC TRANSFER SWITCH
XTFS	1000A	XTFS-4P/1000	4P 1000A AUTOMATIC TRANSFER SWITCH
XTFS	1250A	XTFS-4P/1250	4P 1250A AUTOMATIC TRANSFER SWITCH
XTFS	1600A	XTFS-4P/1600	4P 1600A AUTOMATIC TRANSFER SWITCH
XTFS	2000A	XTFS-4P/2000	4P 2000A AUTOMATIC TRANSFER SWITCH
XTFS	2500A	XTFS-4P/2500	4P 2500A AUTOMATIC TRANSFER SWITCH
XTFS	3200A	XTFS-4P/3200	4P 3200A AUTOMATIC TRANSFER SWITCH



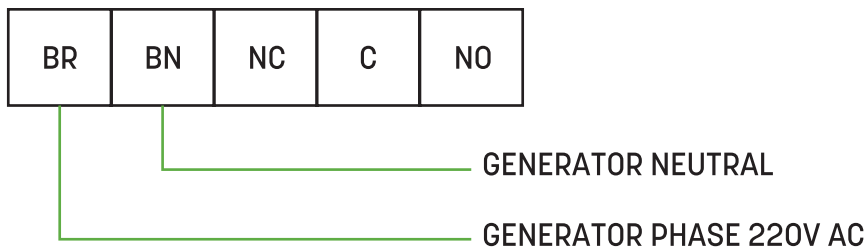
It is an electromechanical separator that allows switching electrical loads between two different sources such as mains/generator. Transferring energy from one power source to another automatically or manually; They are devices that perform the task of cutting and transmitting current.

Automatic Transfer Load Breakers are mainly used in electrical distribution or motor networks to ensure the switching between main grid and backup power system with AC415V rated voltage, 50Hz, rated current from 16A to 3200A. It is widely used in transmission, distribution and automation systems of important places such as hospitals, banks and high-rise buildings where power interruption is not desired. There are two models of transfer switches: XKoren Electric XTS and XTFS series. The XTS series is more compact in size and has smaller rated current values than the XTFS series. While the XTS series has 63, 100, 125A rated current values; XTFS series has rated current values of 100, 160, 250, 400, 630, 800, 1000, 1250, 1600, 2000, 2500 and 3200A.

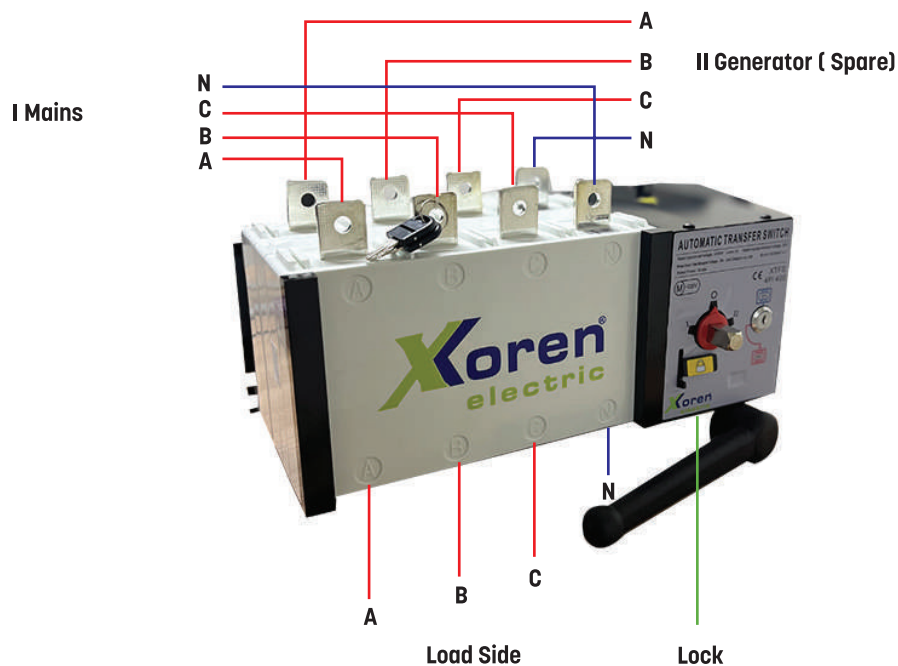
Terminal Terminals for Automatic Operation Mode



AR: Mains Phase 220V AC
MOMENT: Mains Neutral



BR: Generator Phase 220V AC
BN: Generator Neutral

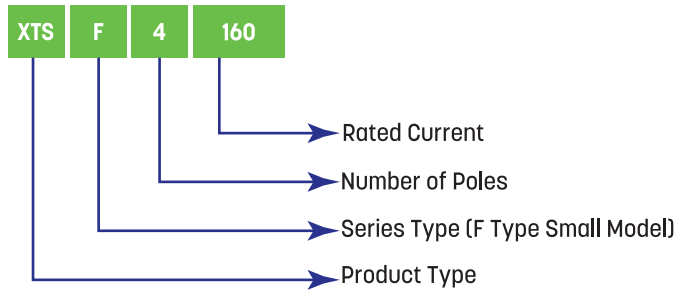


Operation Conditions

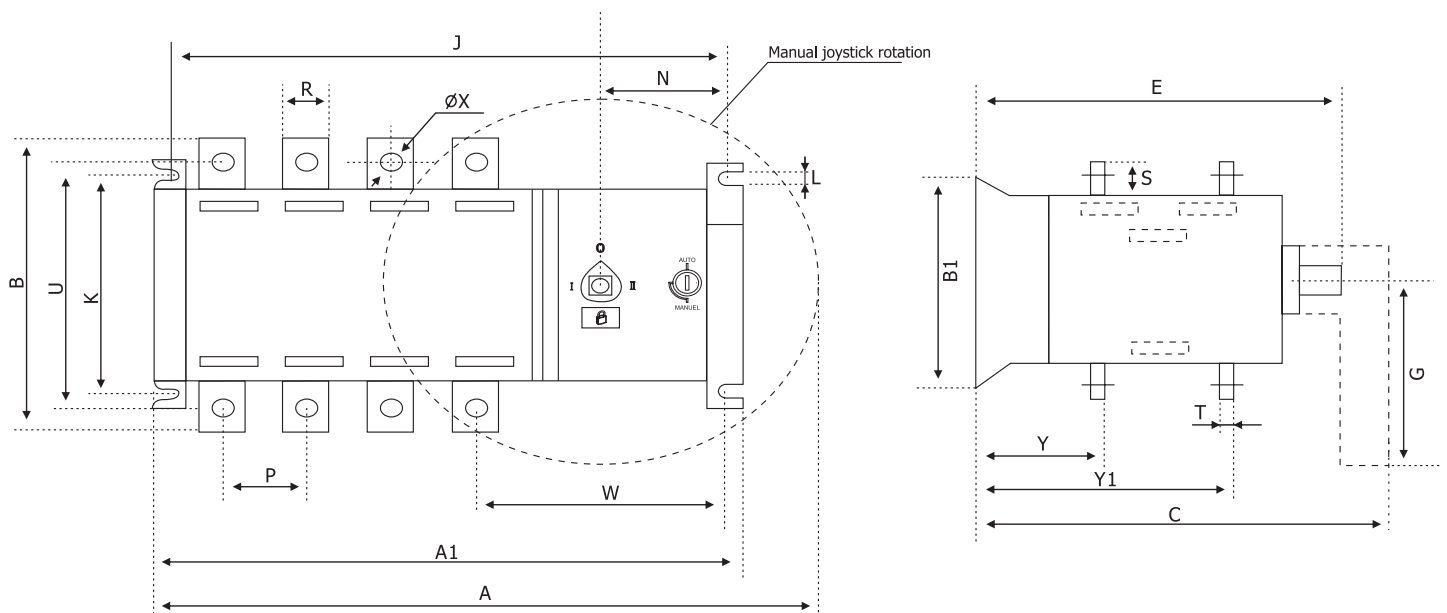
- Ambient temperature should be between -5°C and +40°C.
- The installation site altitude should be a maximum of 2000m.
- Moisture; Maximum 90% at -5°C, maximum 50% at +40°C

Connector - Terminal Connections

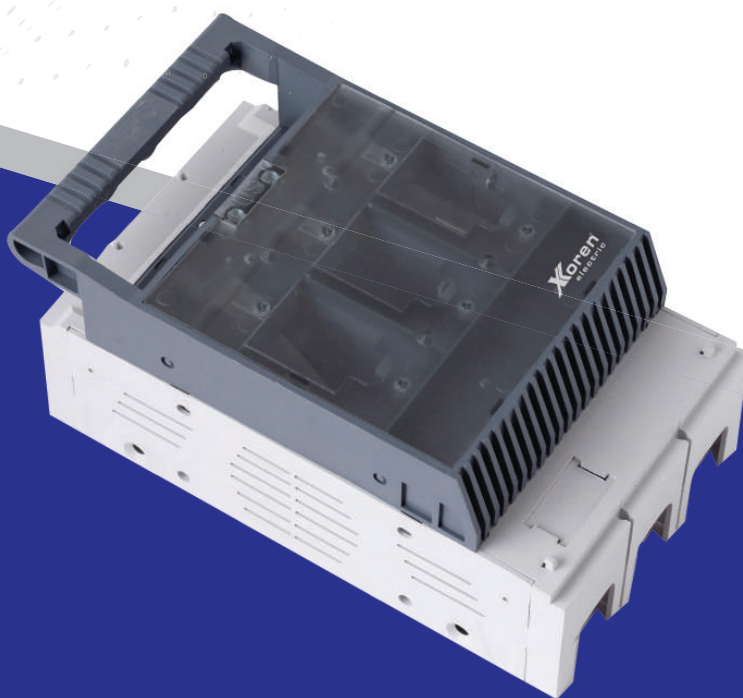
Output Connector	Terminal Explanation
	<p>Terminals</p>
	<p>Terminals</p>
	<p>Terminals</p>



MOTOR PROTECTION SWITCH	XTS			XTFS																	
	XTS-4P/63	XTS-4P/100	XTS-4P/125	XTFS-4P/100	XTFS-4P/160	XTFS-4P/250	XTFS-4P/400	XTFS-4P/630	XTFS-4P/800	XTFS-4P/1000	XTFS-4P/1250	XTFS-4P/1600	XTFS-4P/2000	XTFS-4P/2500	XTFS-4P/3200						
Number of Poles	4																				
Rated Operating Voltage (Ue)	AC 400																				
Rated Operating Frequency	50 / 60																				
Rated Insulation Voltage (Ui)	690																				
Rated Impulse Withstand Voltage (Uimp)	8			5			8			12											
Usage Category	IEC 60947-6-1																				
Control Voltage	230 AC																				
Electrical Life	2000																				
Mechanical Life	6000			5000			4000			3000											
Operating Temperature	-5°C.....+40°C																				
Storage Temperature	-20°C.....+60°C																				
Overload Protection	>1.3 x In																				
Short Circuit Protection	8 x In																				
Transfer Duration	<0.03			0.5			1			1.1			1.2			2.2					
Migration Options	automatic / manual																				
Rated Short-Time Withstanding Current	5			10			13			-			50			-			55		
Rated Operating Current (A)	AC-31A	63	100	125	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200					
	AC-35A	63	100	125	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200					
	AC-33B	63	100	125	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200					
Altitude	2000																				



FUSE DISCONNECTORS



Vertical Fuse Switch Disconnecter					
Model	Type Code	Rated Current (A)	Explanation	NH Insurance	
XVF-160	XVF-A-160	160 A	XVF-A-160 VERTICAL FUSE-DISCONNECTOR	NH00	
	XVF-B-160	160 A	XVF-B-160 VERTICAL FUSE-DISCONNECTOR		
XVF-250	XVF-A-250	250 A	XVF-A-250 VERTICAL FUSE-DISCONNECTOR	NH1	
	XVF-B-250	250 A	XVF-B-250 VERTICAL FUSE-DISCONNECTOR		
	XVF-AY-250	250 A	XVF-AY-250 VERTICAL FUSE-DISCONNECTOR		
	XVF-BY-250	250 A	XVF-BY-250 VERTICAL FUSE-DISCONNECTOR		
XVF-400	XVF-A-400	400 A	XVF-A-400 VERTICAL FUSE-DISCONNECTOR	NH2	
	XVF-B-400	400 A	XVF-B-400 VERTICAL FUSE-DISCONNECTOR		
	XVF-AY-400	400 A	XVF-AY-400 VERTICAL FUSE-DISCONNECTOR		
	XVF-BY-400	400 A	XVF-BY-400 VERTICAL FUSE-DISCONNECTOR		
XVF-630	XVF-A-630	630 A	XVF-A-630 VERTICAL FUSE-DISCONNECTOR	NH3	
	XVF-B-630	630 A	XVF-B-630 VERTICAL FUSE-DISCONNECTOR		



XKoren Electric vertical type fuse switch disconnectors provides safe separation of phases under load and protection against overload currents and short circuits. Three-phase load break switches that can be turned on and off separately or together; It has the privileges of

It ensures safe Switching on and closing of circuits in distribution panels and protection against overcurrents. In addition to protection against overcurrents, it is also used for measurement purposes with current transformer types.

- * Suitable for NHC00, NH00, NH1, NH2, NH3 fuses,
- * 3 phases open together or separately,
- * It has high cutting capacity,
- * The body material is made of heat-flame resistant BMC material.
- * Power losses are low,
- * It is possible to measure the currents of each phase with the current transformers placed on the rear busbars,
- * Thanks to the lower body designed to provide ease of installation in panels, there is no depth difference between 160A and 250A, 400A, 630A.
- * All fasteners are made of stainless steel.

Vertical Fuse Disconnectors; Three phases can be turned on and off separately or together, and can be used at the desired rated current or operating class by changing the blade fuses according to changes in the current drawn and load. It produces its technical features and dimensions in accordance with TS EN 60947-3 standard.

XKoren Electric Vertical Fuse Disconnectors stand out with the advantage of being able to integrate the current transformer in a single body size, thus taking up minimum space in the panels and making detailed measurements from all outputs; At the same time, it has successfully passed all type tests carried out in accredited laboratories and proven its high reliability.

VERTICAL FUSED LOAD DISCONNECTORS		XVF			
		XVF-160	XVF-250	XVF-400	XVF-630
Rated Voltage Ue	VAC	400	400	400	400
With Rated Current	A	160	250	400	630
Nominal Thermal Current Ith	A	160	250	400	630
Rated Insulation Voltage Ui	VAC	1000	1000	1000	1000
Rated Impulse Withstand Voltage Uimp	kV	8	8	8	8
Rated Short Circuit Breaking Capacity	kA	85	85	85	85
For Fuse Connection Max. Power Container Pv	W	12	23	34	48
Electrical Life	op.	200	200	200	200
Mechanical Life	op.	1400	1400	1400	800
Must Open Separately	A	✓	✓	✓	✓
Separate Switching on Side Outlet	AY	-	✓	✓	
Must Open Together	B	✓	✓	✓	✓
Must Open Together	BY	-	✓	✓	
Protection Class		IP20	IP20	IP20	IP20
Plating Type (Silver/Tin/NickeI)		Kalay	Kalay	Kalay	Kalay
Busbar Cross Section (mmxmm)		20x2	30x3	30x3	30x5
Weight	kg	2,2	4,5	4,5	5,9



They are used as circuit breakers and high short-circuit current, circuit breaker switches or emergency switches in motor circuits. Produced in accordance with IEC/EN 60947-3 standards, XKoren Electric horizontal type switch breakers are produced with 960°C heatresistant thermoplastic and flame-resistant, 99.9% pure electrolyte copper current-carrying materials, ensuring a long service life. While power losses are reduced in all sizes and current values with its silver-plated contacts, it also has the highest features in terms of energy efficiency. It is a functional product with easy installation, NH socket resistant to extreme heat tests, wide safety distance between connections, and terminal protection. XKoren Electric Horizontal Fuse Switch Disconnectors have more sensitive selectivity than thermal magnetic switches since they are used with NH blade fuses. Unlike thermal magnetic switches, they limit the short circuit current to smaller values.

- * High cutting capacity,
- * High mechanical and electrical strength
- * Safely interrupting the circuit in case of short circuit or overload current
- * Production in accordance with AC 22 B class according to TS EN 60947-3, IEC 60947-3 standards,
- * Cutting from two different points in the phases,
- * Compact Design
- * High quality raw material with VO class non-flammability, halogen-free and RohC compliant.

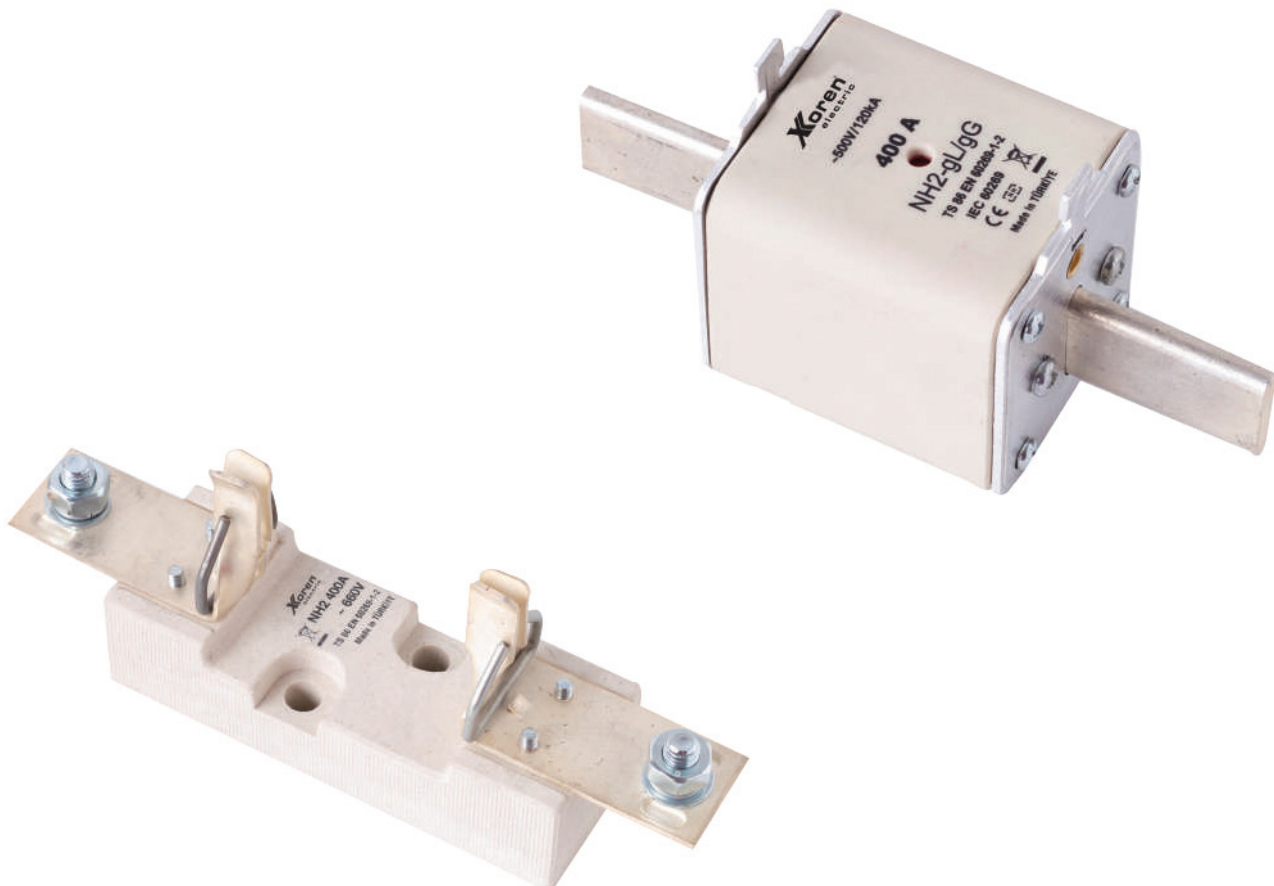


It breaks the current by melting the wire inside and protects the circuit to which it is connected from overcurrent. The high heat generated by the short circuit causes the copper conductor in the porcelain body to break at its weakened points, and thus the circuit is interrupted before the short circuit current increases. A fuse is a protective device. The blades are silver plated and the body material is steatite. XKoren Electric NH blade fuses in gG-gL operating class can be installed together with their bases and handles. If the rated current passes through the NH fuse, the power consumption spent on the fuse pin that has reached stable temperature is called power loss. The power loss of XKoren Electric NH fuse holders is very low. It is designed in accordance with IEC/EN 60269-1 standards.

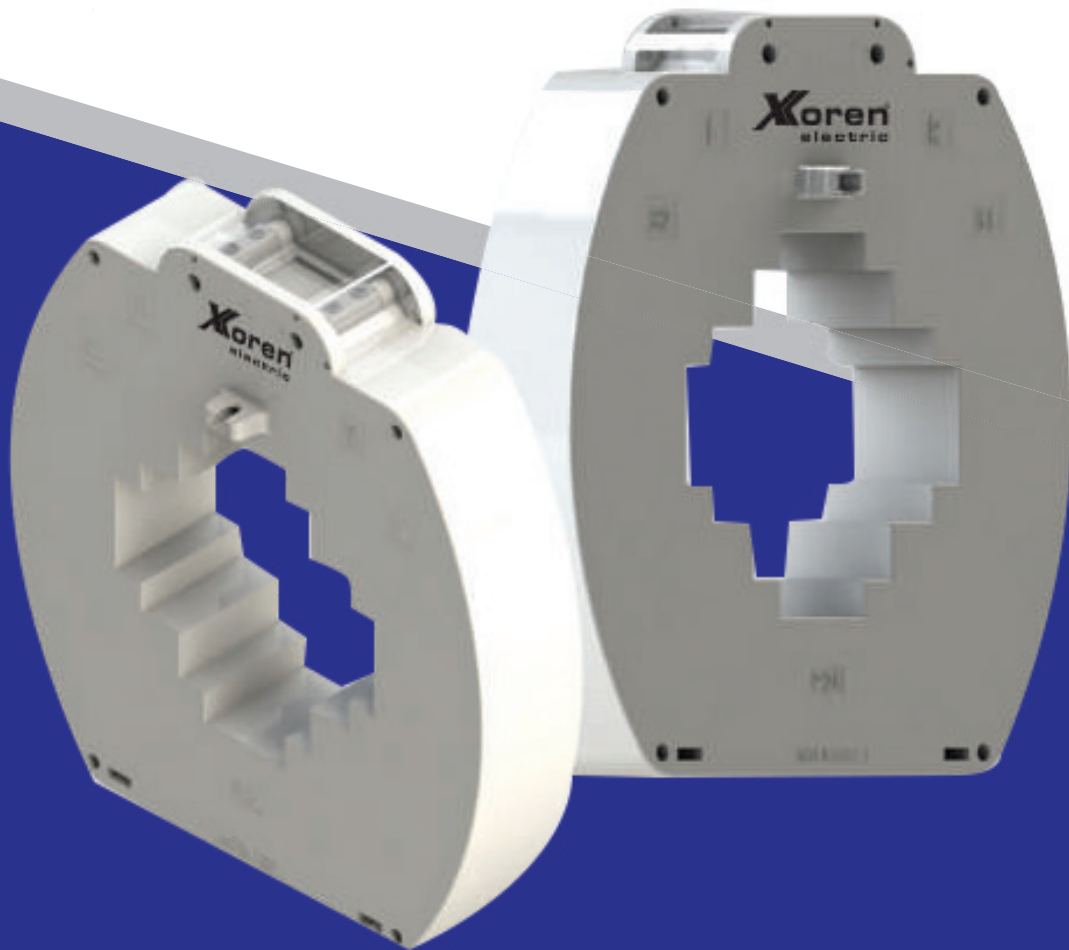
- * It is used in a vertical position
- * Relative humidity: 50% for 40°C, 90% for 20°C
- * Phase: three phases

NH fuse base contacts are produced as silver plated over copper.

	A	B	C	D	E	F	G	H	I	J	K
NH00C	50	48	54	79	2	15	8	40	21	6	35
NH00	50	48	54	79	2	15	13	43	30	6	35
NH1	56	62	72	137	2	20	11	46	46	6	40
NH2	66	62	72	151	2	25	15	57	57	6	48,5
NH3	66	62	72	151	2	32	17	72	72	6	60



XAT SERIES CURRENT TRANSFORMERS

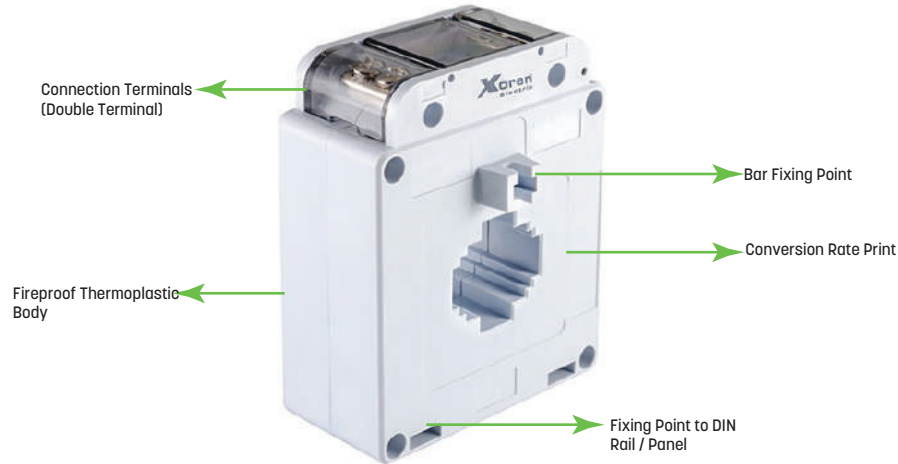


Current Transformers

Model	Type Code	Primary Current (A)	Explanation
XAT-30B	XAT-30B-30	30	30/5A, 5-10VA RATED LOAD
	XAT-30B-40	40	40/5A, 5-10VA RATED LOAD
	XAT-30B-60	60	60/5A, 5-10VA RATED LOAD
	XAT-30B-80	80	80/5A, 5-10VA RATED LOAD
	XAT-30B-100	100	100/5A, 5-10VA RATED LOAD
	XAT-30B-125	125	125/5A, 5-10VA RATED LOAD
	XAT-30B-150	150	150/5A, 5-10VA RATED LOAD
XAT-30	XAT-30-200	200	200/5A, 2.5-5-10VA RATED LOAD
	XAT-30-250	250	250/5A, 2.5-5-10VA RATED LOAD
	XAT-30-300	300	300/5A, 2.5-5-10VA RATED LOAD
XAT-40	XAT-40-400	400	400/5A, 5-10VA RATED LOAD
	XAT-40-600	600	600/5A, 5-10VA RATED LOAD
XAT-60	XAT-60-800	800	800/5A, 5-10VA RATED LOAD
	XAT-60-1000	1000	1000/5A, 5-10VA RATED LOAD
XAT-100	XAT-100-1250	1250	1250/5A, 10-15-30VA RATED LOAD
	XAT-100-1600	1600	1600/5A, 10-15-30VA RATED LOAD
	XAT-100-2500	2500	2500/5A, 10-15-30VA RATED LOAD
XAT-120	XAT-120-2000	2000	2000/5A, 10-15-30VA RATED LOAD
	XAT-120-3000	3000	3000/5A, 10-15-30VA RATED LOAD
XAT-3X100	XAT-3X100-4000	4000	4000/5A, 10-15-30VA RATED LOAD



They are measurement transformers used to convert the current values passing through the circuit to the desired value according to their conversion ratio and to measure the current passing through the circuit. Current magnitudes are measured with the help of leads removed from the primary winding. As the current value increases, the conversion ratio also increases. If one or more windings are passed through the primary of a transformer, the measuring range of the transformer is also expanded. In the low voltage circuit, as the current passing through the primary increases, its winding is a round or rectangular cross-section line busbar passing through the middle of the transformer core. This type of transformers are called busbar type current transformers. Current transformers are divided into 4 groups according to their voltage (LV, MV), cooling method (oil type, dry type), construction (winding, busbar) and place of use (internal, external). The value indicating the % error rate of the current transformer is called accuracy class.



Current transformer is used to supply receivers operating at low rated current (e.g. 1A, 5A) that will be used for measurement and protection purposes in systems where high rated currents pass (e.g. > 10 A). The internal resistances of receivers connected to current transformers are very small. Secondary ends of current transformers should never be left empty. If the secondary of a current transformer whose primary is connected to the network is left unloaded, the magnetic flux in the opposite direction to the primary winding flux of the secondary circuit disappears. This situation causes high voltages to be induced in the secondary, directly proportional to the number of secondary windings, resulting in deterioration of the winding insulation. In addition, due to the high magnetic flux, iron losses in the core increase and heat the core excessively. While current is flowing through the primary, if the secondary receiver needs to be replaced or the secondary terminals need to be opened due to repair, the secondary must be short-circuited. Otherwise, the voltage that will rise in the secondary may leave the operator in a dangerous situation. The following formula can be used to determine the power of the current transformer. The most important point here is that the determined power should not be more than the full load of the transformer power to be requested and should not be less than the quarter load. Otherwise, the requested transformer may not fully serve the need. It may cause incorrect measurements or incorrect protection signals.

Secondary power (PS) = Receiver power (PA) + Connection cable losses (PK) + Contact losses (PT) PT = Approximately 0.5 VA can be taken depending on the number of connections to be made between the secondary receiver.

Operation Condition

- **Altitude:** 1000 m (max)
- **Relative humidity:** %90
- **Operating temperature:** -25°C to +60°C
- **Assembly Position:** Free
- **Plant Voltage:** Voltage drop should not exceed 5%.

CURRENT TRANSFORMERS		XAT						
		XAT-30B	XAT-30	XAT-40	XAT-60	XAT-100	XAT-120	XAT-3X100
Rated Operating Voltage	v	720 V AC						
Rated Primary Current	A	30,40,60,80,100,125,150	200,250,300	400,600	800,1000	1250,1600,2500	2000,3000	4000
Rated Secondary Current	A	5						
Rated Load	VA	2,5-5-10	2,5-5-10	5-10	5-10	10-15-30		
Operating Frequency	Hz	50/60						
Network Withstand Voltage	kV	3						
Rated Continuous Thermal Current	Icth	1,2 x In						
Short Term Thermal Rated Current	Ith	60 x In						
Dynamic Rated Current	Idyn	2,5 x Ith						
Safety Factor	Fs	<5						
Accuracy Class	Cl	0,5						
Protection Class		IP20						
Operating temperature	°C	-25 Ø +75						
Insulation Class		E						

Earth Leakage Relay


Model	Product Code	Threshold Current (A)	Delay (sec.)	Explanation
	XKAR-30A	0.03-30	0.05-1	EARTH LEAKAGE RELAY

Toroidal Current Transformers


Model	Type Code	Inner Diameter Ø (mm)	Max. Current Supply (A)
	XT-80	80	630 A
	XT-100	100	630 A
	XT-150	150	800 A
	XT-200	200	1000 A

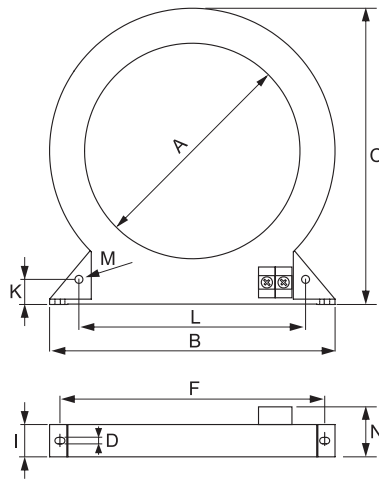


It instantly detects the residual current occurring in the circuit and opens it, protecting human life and the installation and preventing possible dangers. It measures the difference between the incoming current and the outgoing current and cuts the circuit if it is above the determined value. Toroidal current transformers; It measures the input and output currents, in cases where there is no equality, no contact output is given. Having 30 mA current sensitivity is the most important point in life protection, as in XFC and XKR.

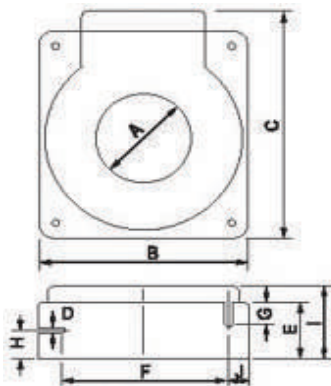


At this stage, XKoren Electric offers combined products such as thermal magnetic circuit breaker, toroidal current transformer, trip coil and compact switches. 3 phases and neutral are connected to the relay input. An overcurrent circuit breaker is connected to each phase output, and the neutral cable is connected to the busbar. The secondary ends of the toroidal current transformer are connected to the Residual current detection relay and when a leak is detected in the system, a signal is sent to the relay. The inner diameter measurement criterion determines the selection of toroidal current transformers. XKAR series operating at 50/60 Hz operating frequency; has an operational life of 100,000 electrical and 5,000,000 mechanical life. It has a DC power output current of 50 mA and a power consumption of 3 VA. XKoren residual current detection relay, which can open in a maximum of 15 ms; has the functions of remote test, remote reset, mounting on 35 mm DN rail and 50% before failure output contacts.

EARTH LEAKAGE RELAY		XKAR-30A
Protection		Residual current detection, circuit Switching on
Supply voltage	V	110 V ± %10 veya 240 V ± %10 AC 90-120V AC
Residual Current Value		30mA, 50mA, 75mA, 100mA, 125mA, 150mA, 200mA, 250mA, 300mA, 500mA, 1A, 1.25A, 1.5A, 2A, 2.5A, 3A, 5A, 7.5A, 10A, 12.5A, 15A, 20A, 25A, 30A
Operating Frequency	Hz	50/60
Electrical Life	op.	100000
Mechanical Life	op.	5000000
Time Delay		50 ms~1 sn
Power Consumption	VA	3
DC Power Output Current	mA	50
Switching on Time		max 15 ms
Functions		<ul style="list-style-type: none"> * Remote testing * Remote reset * 50% output contacts before failure * 50% output contacts before failure



Dimensions (mm)	XT-100	XT-150	XT-200
A	100	150	200
B	135	183	265
C	140	193	275
D	5	5	6
F	122	170	245
I	26	27	30
K	10	13	-
L	110	150	-
M	5	5	-
N	38	39	42



Dimensions (mm)	XT-80
A	80
B	120.5
C	138
D	3.5
E	35
F	94.5
G	17.5
H	17.5
I	37
J	10

MODULAR PRODUCTS



2P Modular Contactors (Silent Contactor)

Model	In (A) 220/230 V AC 50/60 Hz	Auxiliary Contact	Type Code	Explanation
XMSC-2P	25A	1NO+1NC	XMSC 25A-20S/220V 11	XMSC-2P 25A 1NO+1NC MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-2P	25A	2NO	XMSC 25A-20S/220V 20	XMSC-2P 25A 2NO MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-2P	40A	1NO+1NC	XMSC 40A-20S/220V 11	XMSC-2P 40A 1NO+1NC MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-2P	40A	2NO	XMSC 40A-20S/220V 20	XMSC-2P 40A 2NO MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-2P	63A	1NO+1NC	XMSC 63A-20S/220V 11	XMSC-2P 63A 1NO+1NC MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-2P	63A	2NO	XMSC 63A-20S/220V 20	XMSC-2P 63A 2NO MODULAR CONTACTORS (SILENT CONTACTOR)

3P Modular Contactors (Silent Contactor)

Model	In (A) 220/230 V AC 50/60 Hz	Auxiliary Contact	Type Code	Explanation
XMSC-3P	25A	3NC	XMSC 25A-30S/220V/03	XMSC-3P 25A 3NC MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-3P	40A	3NC	XMSC 40A-30S/220V/03	XMSC-3P 40A 3NC MODULAR CONTACTORS (SILENT CONTACTOR)
XMSC-3P	63A	3NC	XMSC 63A-30S/220V/03	XMSC-3P 63A 3NC MODULAR CONTACTORS (SILENT CONTACTOR)

4P Modular Contactors

Model	In (A) 220/230 V AC 50/60 Hz	Auxiliary Contact	Type Code	Explanation
XMSC-4P	25A	2NO+2NC	XMSC 25A-40S/220V 22	XMSC-4P 25A 2NO+2NC MODULAR CONTACTORS
XMSC-4P	25A	4NO	XMSC 25A-40S/220V 40	XMSC-4P 25A 4NO MODULAR CONTACTORS
XMSC-4P	40A	2NO+2NC	XMSC 40A-40S/220V 22	XMSC-4P 40A 2NO+2NC MODULAR CONTACTORS
XMSC-4P	40A	4NO	XMSC 40A-40S/220V 40	XMSC-4P 40A 4NO MODULAR CONTACTORS
XMSC-4P	63A	2NO+2NC	XMSC 63A-40S/220V 22	XMSC-4P 63A 2NO+2NC MODULAR CONTACTORS
XMSC-4P	63A	3NO+1NC	XMSC 63A-40S/220V 31	XMSC-4P 63A 3NO+1NC MODULAR CONTACTORS
XMSC-4P	63A	4NO	XMSC 63A-40S/220V 40	XMSC-4P 63A 4NO MODULAR CONTACTORS

Auxiliary Contact for Modular Contactors

Model	Auxiliary Contact	Type Code	Explanation
XMSC-YK	1NO+1NC	XMSC-YK 11	AUXILIARY CONTACT FOR XMSC-YK 11 MODULAR CONTACTORS

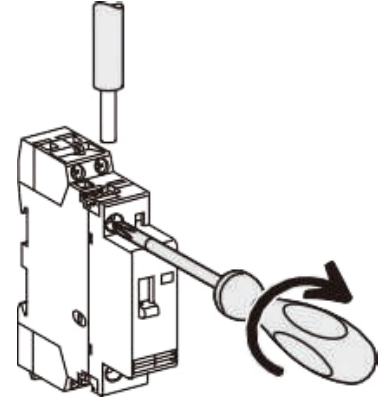


Due to their long-lasting and quiet operation features, they are also known as silent contactors. They are used in heating, lighting, ventilation, small motors, power supply, industrial control systems, among other contactors.

It provides great convenience to the user with its advantages such as side-mountable 1NO+1NC auxiliary contacts, high electrical and mechanical life, and easy mounting on DIN rail.

Modular Contactor Selection Parameters

- Rated operating voltage
- Rated operating current
- Control (or coil) voltage
- Ortam hava sıcaklığı
- Ambient air temperature
- Electrical and mechanical durability
- Compliant with IEC/EN 61095 - IEC/EN 60947-4-1 standards
- AC-7a, AC-7b, AC-1, AC-3 operating class
- Control coil rated operating voltage: 12V AC/DC, 24V AC/DC, 36V AC/DC ; 110VAC; 127VAC; 230VAC; 220-240VAC 50/60Hz
- Insulation voltage: 500VAC
- Rated withstand voltage Uimp: 2.5kV (4kV for 12/24/48V AC)
- Electrical Life: ≥ 100.000 op.



Pole	Rated Current (In)		Control Voltage (VAC) (50/60Hz)	Terms (VA)		Maks. Power (W)
	AC-7a	AC-7b		Constant	Moving	
	AC-1	AC-3				
2	25A	9A	24, 48, 220....240	3.8 2.7	15 9.2	1.3 1.2
2	40A	18A	220.....240	4.6	34	1.6
2	63A	25A	24, 220....240	4.6	34	1.6
4	25A	9A	24, 220....240	4.6	34	1.6
4	40A	18A	220.....240	6.5	53	2.1
4	63A	25A	24, 220....240	6.5	53	2.1

Auxiliary Contact

- Allows indication or control of the "on" or "closed" position
- Width: 9mm
- Operating Frequency: 50/60Hz
- VAC: 24.....240 V
- VDC: 24.....130 V
- Cutting Capacity: Min. at 24V DC/AC 10mA
- Number of Contacts: 1NO+1NC
- Operating Temperature: -10°C ile +65°C
- Storage Condition: -40°C ile +70°C



Impulse Relay Switches

Model	Rated Opr. Voltage (VAC)	Rated Current (A)	Auxiliary Contact	Type Code	Explanation
XDA	220 V	16A	1NO	XDA-16A	1P 16A 230V AC 1NO IMPULSE CURRENT SWITCH
XDA	220 V	32A	1NO	XDA-32A	1P 32A 230V AC 1NO IMPULSE CURRENT SWITCH


Time Relay

Model	Type Code	Explanation
XDZS-P1	XDZS-P1	PANEL TYPE DIGITAL TIME CLOCK - WITH RESERVE - WEEKLY PROGRAMMING
XAZS-01	XAZS-01	VENDING MACHINE TYPE ANALOG TIME CLOCK - WITH RESERVE - 15 MIN PER DAY. INTERVAL PROGRAMMING
XAZS-P1	XAZS-P1	SOCKET TYPE ANALOG TIME CLOCK - 24 HOUR PROGRAMMING - 15 MINUTES EACH. TIME RANGE
XAZS-P2	XAZS-P2	SOCKET TYPE DIGITAL TIME CLOCK WEEKLY PROGRAMMING



XAZS-01



XDZS-P1



XAZS-P2



XAZS-P1

XKoren Electric Impulse relay switches are used to control lighting from two or more points in residences, hotels, offices, commercial buildings, public buildings, factories and hospitals. It allows control of individual or group lighting. The most important advantage of impulse relay is that they provide an unlimited number of lighting control points with unilluminated push buttons. It controls lighting circuits from multiple points. It saves money by reducing cabling and installation costs.

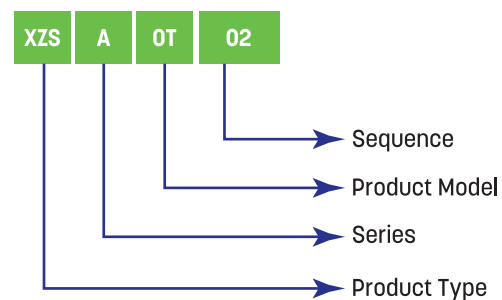
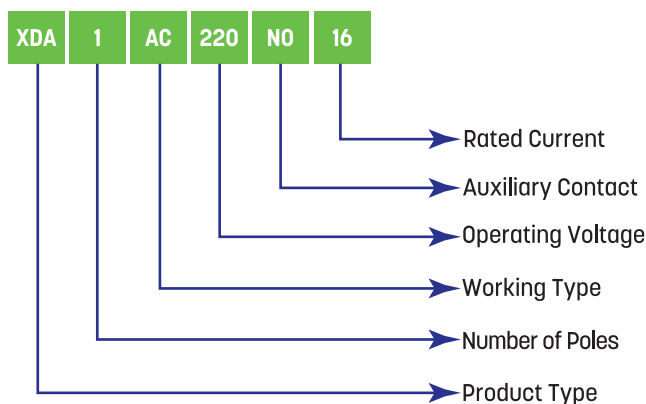
XKoren Electric time relayare control devices that enable the system or a device to be activated and deactivated by automatically Switching on and closing the electrical circuit on an hourly, daily or weekly basis according to a pre-planned program. Time relay ; In systems that are required to operate for certain periods of time and shut down at the end of a certain period of time in a wide variety of application areas such as park and garden irrigation systems, heating-cooling systems control, environment, building and road lighting systems, school-workplace bell control, agricultural irrigation systems, machine control and industrial applications. They are used easily. In this way, energy savings are achieved by operating the systems automatically and only for the desired period of time, without user intervention.

Technical Specifications for Impulse Relay Switches

Control Circuit	Distributed power	19 VA
	Illuminated PB control	Maksimum akam 3 mA
	Operating threshold	%85xUn
	Checking time	50 ms-1 s
	Reaction time	50 ms
Power Circuit	Voltage value (Ue)	24...250 VAC
	Frequency	50 / 60 Hz
	Maximum number of operations (op/min)	5
	Maximum number of switching operations (op/day)	100
Additional Features according to IEC/EN 60947-3	Insulation voltage (Ui)	440 VAC
	Rated impact withstand voltage (Uimp)	6 kV
Additional Endurance (OC) according to IEC/EN 60947-3	Electrical life	200.000 op. (AC21)
		100.000 op. (AC22)
	Overvoltage (V)	IV

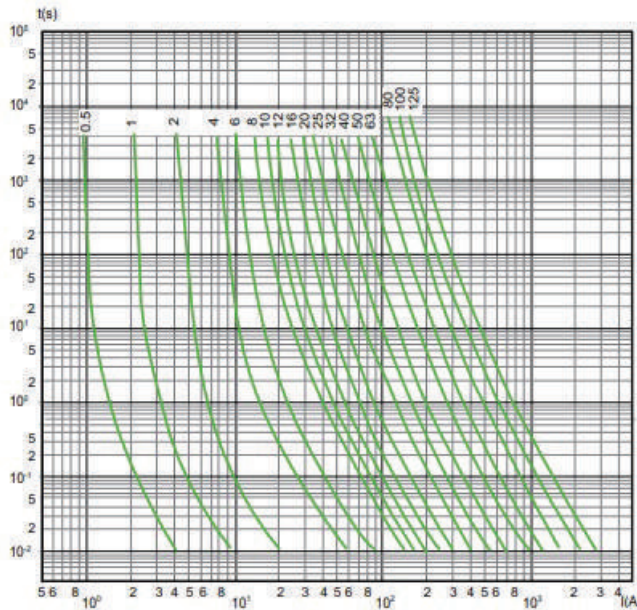
Technical Specifications for Time Relay

Model	XAZS-01, XAZS-P1, XAZS-P2, XDZS-P1
Rated Current	16 A
Rated Voltage	220 - 240 V
Operating Frequency	50 / 60 Hz
Electrical Life	5000
Mechanical Life	10.000
IP Rating	IP20
Standard	EN IEC60730 - EN IEC61000
Operating Temperature	-10°C.....+40°C



In case of overload current or short circuit at any point in the circuit, the wire inside the cartridge fuse melts and breaks due to the heat generated by the electric current. The sand inside fills the gaps at the melting points and ensures that the broken wires come into contact with each other, resulting in the interruption of current transmission in the circuit. It is a low voltage protection product used to protect the electrical installations and equipment of factories or households in industrial areas. It is produced from steatite body.

gG Protection Class XKoren Electric Cylindrical Cartridge Fuse Current - Time Graph



XKoren Electric Cylindrical Cartridge Fuses;

- Degree of protection: IP20
- Mounting type: DIN rail
- Power loss: 3 W per Mast at Rated Operating Conditions
- Rated Current (In): 20A
- Nominal Frequency (f): 50... 60Hz
- Rated Voltage (Ur): 690V
- Rated Operating Voltage: 690V AC
- Voltage range: 690VAC

Digital Multimeters

Model	Type Code	Explanation
	XKM-3M	72X72 DIGITAL MONOFAZE MULTIMETRE
	XKM-72	72X72 DIGITAL MULTIMETRE
	XKM-05	96X96 DIGITAL MULTIMETRE
	XKM-06	96X96 DIGITAL MULTIMETRE


Digital Voltmeters

Model	Type Code	Explanation
	XKV-36	36X58 DIGITAL VOLTMETRE
	XKV-72	72X72 DIGITAL VOLTMETRE
	XKV6-72	72X72 DIGITAL VOLTMETRE CHOOSEN
	XKVS-72	72X72 DIGITAL VOLTMETRE SETLİ
	XKV3-72	72X72 DIGITAL VOLTMETRE 3 PHASE DISPLAY
	XKV-96	96X96 DIGITAL VOLTMETRE
	XKV6-96	96X96 DIGITAL VOLTMETRE CHOOSEN
	XKVS-96	96X96 DIGITAL VOLTMETRE SET


Regulator Voltmeters

Model	Type Code	Explanation
	XKVR-72	72X72 REGULATOR MEASUREMENT VOLTMETER
	XKVR-72B	72X72 REGULATOR MEASUREMENT VOLTMETER
	XKVR-72S	72X72 REGULATOR MEASUREMENT VOLTMETER


Frequency Meters

Model	Type Code	Explanation
	XKF-36	36X58 FREQUENCY METER
	XKF-72	72X72 FREQUENCY METER
	XKFS-72	72X72 FREQUENCY METER
	XKF3-72	72X72 FREQUENCY METER
	XKF-96	96X96 FREQUENCY METER
	XKFS-96	96X96 FREQUENCY METER



Digital Ammeters

Model	Type Code	Explanation
	XKA-96	96x96 DIGITAL AMMETER
	XKAS-96	96x96 DIGITAL AMMETER SET
	XKA-72	72x72 DIGITAL AMMETER
	XKAS-72	72x72 DIGITAL AMMETER SET
	XKA-96A	96x96 DIGITAL AMMETER DIRECT 100A
	XKA-72A	72x72 DIGITAL AMMETER DIRECT 100A
	XKA-36A	36x58 DIGITAL AMMETER DIRECT 100A
	XKA-96B	96x96 DIGITAL AMMETER DIRECT 250A
	XKA-72B	72x72 DIGITAL AMMETER DIRECT 250A
	XKA-36B	36x58 DIGITAL AMMETER DIRECT 250A
	XKA3-72	72x72 DIGITAL AMMETER WITH 3 PHASE INDICATOR

Voltage Control Relay

Model	Type Code	Explanation
	XKGD-12	DIGITAL SINGLE PHASE VOLTAGE CONTROL RELAY (STD)
	XKGD-13	DIGITAL THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKGD-14	DIGITAL THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKGD-14F	DIGITAL THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKGD-15	DIGITAL THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKG-02	SINGLE PHASE VOLTAGE CONTROL RELAY (STD)
	XKG-03	THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKG-04	THREE PHASE VOLTAGE CONTROL RELAY (STD)
	XKG-05	THREEPHASE VOLTAGE CONTROL RELAY (STD)
	XKPV-12	SINGLE PHASE VOLTAGE CONTROL RELAY (W-OT)
	XKPV-13	THREE PHASE VOLTAGE CONTROL RELAY (W-OT)
	XKPV-14	THREE PHASE VOLTAGE CONTROL RELAY (W-OT)
	XKVD-22	SINGLE PHASE VOLTAGE CONTROL UNIT (DIN)
	XKVD-23	THREE PHASE VOLTAGE CONTROL UNIT (DIN)
	XKVD-24	THREE PHASE VOLTAGE CONTROL UNIT (DIN)
XKVD-25	THREE PHASE VOLTAGE CONTROL UNIT (DIN)	

Motor (Hydrophore) Sequencing Relays

Model	Type Code	Explanation
	XKHS-02	HYDROPHORE SEQUENCING RELAY, 10MIN(STD)
	XKHS-03	HYDROPHORE SEQUENCING RELAY, 10MIN(STD)
	XKHD-02	HYDROPHORE SEQUENCING RELAY, 10MIN(DIN)
	XKHS-04	HYDROPHORE SEQUENCING RELAY, 10MIN(STD)

Phase (Motor) Protection Relays

Model	Type Code	Explanation
	XKPD-10	DIGITAL PHASE PROTECTION RELAY (STD)
	XKPD-11	DIGITAL PHASE PROTECTION RELAY (STD)
	XKPD-14	DIGITAL PHASE PROTECTION RELAY (STD)
	XKPD-15	DIGITAL PHASE PROTECTION RELAY (STD)
	XKPD-15P	DIGITAL PHASE PROTECTION RELAY (STD)
	XKP-01	PHASE PROTECTION RELAY (STD)
	XKP-02	PHASE PROTECTION RELAY (STD)
	XKP-04	PHASE PROTECTION RELAY (STD)
	XKP-05	PHASE PROTECTION RELAY (W-OT)
	XKPV-20	PHASE PROTECTION RELAY (W-OT)
	XKPV-30	PHASE PROTECTION RELAY (W-OT)
	XKPV-40	PHASE PROTECTION RELAY (W-OT)
	XKPD-20	PHASE PROTECTION RELAY (20%Asymmetry)(DIN)
	XKPD-21	PHASE PROTECTION RELAY (DIN)
	XKPD-22	PHASE PROTECTION RELAY (DIN)
	XKPD-24	PHASE PROTECTION RELAY (DIN)
	XKPD-25	PHASE PROTECTION RELAY (DIN)

Liquid Level Relays

Model	Type Code	Explanation	Box Type
	XKL-01	5-50 kOhm ADJUSTABLE, 3 ELECTRODE INPUT	STD
	XKLV-03	5-50 kOhm ADJUSTABLE, 3 ELECTRODE INPUT	W-OT
	XKLE-10	LIQUID LEVEL ELECTRODE	SHORT

Time Relay

Model	Type Code	Explanation
	XKT-06	0.1 SEC -6 SEC ADJUSTABLE (STD)
	XKT-12	0.1 SEC-12 SEC ADJUSTABLE (STD)
	XKT-30	1 SEC-30 SEC ADJUSTABLE (STD)
	XKT-60	1 SEC-60 SEC ADJUSTABLE (STD)
	XKT-6M	0.1 MIN-6 MIN ADJUSTABLE (STD)
	XKT-12M	0.1 MIN-12 MIN ADJUSTABLE (STD)
	XKT-30M	1 MIN-30 MIN ADJUSTABLE (STD)
	XKT-60M	1 MIN-60 MIN ADJUSTABLE (STD)
	XKTV-30X	WITH DIGITAL DISPLAY 1 SEC-30 SEC ADJUSTABLE (W-OT)
	XKTV-60X	WITH DIGITAL DISPLAY 1 SEC-60 SEC ADJUSTABLE (W-OT)
	XKTD-06	0.1 SEC-6 SEC ADJUSTABLE (DIN)
	XKTD-12	0.1 SEC-12 SEC ADJUSTABLE (DIN)
	XKTD-30	1 SEC-30 SEC ADJUSTABLE (DIN)
	XKTD-60	1 SEC-60 SEC ADJUSTABLE (DIN) 0.1
	XKTD-6M	MIN-6 MIN ADJUSTABLE (DIN) 0.1
	XKTD-12M	MIN-12 MIN ADJUSTABLE (DIN) 1
	XKTD-30M	MIN-30 MIN ADJUSTABLE (DIN)
	XKTD-60M	1 MIN-60 MIN ADJUSTABLE (DIN)
	XKTD-M	1 MIN-100 HOURS MULTIMETER (DIN)
	XKTV-4T	DIGITAL 1 SEC-100 HOUR ADJUSTABLE, 4 TYPES OF OPERATION (Release Delay, SLOT Delay, Multi Time and Multi Flashing Feature (W-OT)

Flasher Relays

Model	Type Code	Explanation
	XKBV-2F	1-60 sec / 1-60 MIN DOUBLE ADJUSTMENT (On-Off)
	XKBV-8	sec-100 HOURS MULTITIME DUAL SETTING (On-Off)


Command Control Relay

Model	Type Code	Explanation
	XKVS-D	STAR DELTA RELAY, DOUBLE SETTING (DIN)
	XKRLV-2	LEFT-RIGHT (INVERTER) RELAY, 1.60 SEC/1.60 SEC DOUBLE ADJUSTMENT (W-OT)
	XKRLV-M	TIME RIGHTLEFT RELAY, 1 SEC-100 MIN/ 1 sec-100 MIN (W-OT)
	XKFD-04	PHOTOCELL RELAY, 1 -10 LUX ADJUSTABLE (DIN)
	XKF-G	PHOTOCELL EYE


Digital Thermostats

Model	Type Code	Explanation
	XKDT-96	DIGITAL THERMOSTAT, (FE-CONST)
	XKDT-72	DIGITAL THERMOSTAT, (FE-CONST)
	XKDT-48	DIGITAL THERMOSTAT, (FE-CONST)
	XKDT-36	DIGITAL THERMOSTAT, NTC INPUT (-50. +150 'C)



LV Current Transformers (Class 0.5)


Model	Type Code	Explanation
	XTC-30	30/5A 2.5VA CURRENT TRANSFORMER
	XTC-40	40/5A 2.5VA CURRENT TRANSFORMER
	XTC-50	50/5A 2.5VA CURRENT TRANSFORMER
	XTC-60	60/5A 2.5VA CURRENT TRANSFORMER
	XTC-75	75/5A 2.5VACURRENT TRANSFORMER
	XTC-100	100/5A 5VA CURRENT TRANSFORMER
	XTC-125	125/5A 5VA CURRENT TRANSFORMER
	XTC-150	150/5A 5VA CURRENT TRANSFORMER
	XTC-200	200/5A 10VA CURRENT TRANSFORMER
	XTC-250	250/5A 10VA CURRENT TRANSFORMER

Digital Thermal Relays


Model	Type Code	Explanation
	XKTER-03	0.1-3 DIGITAL THERMAL RELAY (DIRECT)
	XKTER-12	DIGITAL THERMAL RELAY (DIRECT)
	XKTER-25	DIGITAL THERMAL RELAY (DIRECT)
	XKTER-50	15-50 DIGITAL THERMAL RELAY
	XKTER-100	40-100 DIGITAL THERMAL RELAY
	XKTER-200	90-200 DIGITAL THERMAL RELAY
	XKTER-300	190-300 DIGITAL THERMAL RELAY
	XKTER-400	290-400 DIGITAL THERMAL RELAY

Relays used in monitoring, controlling and protecting systems enable rapid commissioning/deactivation with phase and frequency monitoring. Relays used to switch devices that draw high current using low currents, work based on the principle of energizing the coil in the circuit and activating the armature of the coil as a result of magnetization.

- * Star/Delta delayed time relay:
Time delay range: 0.1s-10min
Switching time t2: 0.1s-1s
- * Asymmetric loop time relay: 0.1s-100 days
- * Level control relay: 2 level control modes
- * Stair automatic: delaying response to ignition switch
- * Multi-function output relay: single/double contact
- * 3 phase voltage relay: overvoltage / asymmetry delay time relay / undervoltage / phase sequence / phase error

XKM, XKV, XKF, XKA, XKG, XHS, XKP, XKL, XKT, XKTER
72x72, 96x96
100, 250 A
digital, analog
1P, 3P



22 mm 220V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 22K / 220V	●	RED SIGNAL INDICATOR WITH 22 mm 220V AC/DC LED
XSL - 22Y / 220V	●	GREEN SIGNAL INDICATOR WITH 22 mm 220V AC/DC LED
XSL - 22B / 220V	○	WHITE SIGNAL INDICATOR WITH 22 mm 220V AC/DC LED
XSL - 22S / 220V	●	YELLOW SIGNAL INDICATOR WITH 22 mm 220V AC/DC LED
XSL - 22M / 220V	●	BLUE SIGNAL INDICATOR WITH 22 mm 220V AC/DC LED

22 mm 110V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 22K / 110V	●	22 mm RED SIGNAL INDICATOR WITH 110V AC/DC LED
XSL - 22Y / 110V	●	22 mm GREEN SIGNAL INDICATOR WITH 110V AC/DC LED
XSL - 22B / 110V	○	22 mm WHITE SIGNAL INDICATOR WITH 110V AC/DC LED
XSL - 22S / 110V	●	22 mm YELLOW SIGNAL INDICATOR WITH 110V AC/DC LED
XSL - 22M / 110V	●	22 mm 110V AC/DC BLUE SIGNAL INDICATOR WITH LED

22 mm 24V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 22K / 24V	●	RED SIGNAL INDICATOR WITH 22 mm 24V AC/DC LED
XSL - 22Y / 24V	●	GREEN SIGNAL INDICATOR WITH 22 mm 24V AC/DC LED
XSL - 22B / 24V	○	WHITE SIGNAL INDICATOR WITH 22 mm 24V AC/DC LED
XSL - 22S / 24V	●	YELLOW SIGNAL INDICATOR WITH 22 mm 24V AC/DC LED
XSL - 22M / 24V	●	BLUE SIGNAL INDICATOR WITH 22 mm 24V AC/DC LED

16 mm 220V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 16K / 220V	●	16 mm 220V AC/DC RED SIGNAL LAMP WITH LED
XSL - 16Y / 220V	●	16 mm 220V AC/DC LED GREEN SIGNAL LAMP
XSL - 16B / 220V	○	16 mm 220V AC/DC LED WHITE SIGNAL LAMP
XSL - 16S / 220V	●	16 mm 220V AC/DC LED YELLOW SIGNAL LAMP
XSL - 16M / 220V	●	BLUE SIGNAL LAMP WITH 16 mm 220V AC/DC LED

16 mm 110V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 16K / 110V	●	RED SIGNAL INDICATOR WITH 16 mm 110V AC/DC LED
XSL - 16Y / 110V	●	GREEN SIGNAL INDICATOR WITH 16 mm 110V AC/DC LED
XSL - 16B / 110V	○	WHITE SIGNAL INDICATOR WITH 16 mm 110V AC/DC LED
XSL - 16S / 110V	●	YELLOW SIGNAL INDICATOR WITH 16 mm 110V AC/DC LED
XSL - 16M / 110V	●	BLUE SIGNAL INDICATOR WITH 16 mm 110V AC/DC LED

16 mm 24V AC/DC LED Signal Indicator


Type Code	Color	Explanation
XSL - 16K / 24V	●	RED SIGNAL INDICATOR WITH 16 mm 24V AC/DC LED
XSL - 16Y / 24V	●	GREEN SIGNAL INDICATOR WITH 16 mm 24V AC/DC LED
XSL - 16B / 24V	○	WHITE SIGNAL INDICATOR WITH 16 mm 24V AC/DC LED
XSL - 16S / 24V	●	YELLOW SIGNAL INDICATOR WITH 16 mm 24V AC/DC LED
XSL - 16M / 24V	●	BLUE SIGNAL INDICATOR WITH 16 mm 24V AC/DC LED

Signal Lamp with 10 mm 220V AC/DC Armature and Silicone Cable



Type Code	Color	Explanation
XSL-AS-10K/220V	●	RED SIGNAL INDICATOR WITH 10 mm 220V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10Y/220V	●	GREEN SIGNAL INDICATOR WITH 10 mm 220V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10B/220V	○	WHITE SIGNAL INDICATOR WITH 10 mm 220V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10S/220V	●	YELLOW SIGNAL INDICATOR WITH 10 mm 220V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10M/220V	●	BLUE SIGNAL INDICATOR WITH 10 mm 220V AC/DC ARMATURE AND SILICONE CABLE

Signal Indicator with 10 mm 24V AC/DC Armature and Silicone Cable



Type Code	Color	Explanation
XSL-AS-10K/24V	●	RED SIGNAL INDICATOR WITH 10 mm 24V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10Y/24V	●	GREEN SIGNAL INDICATOR WITH 10 mm 24V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10B/24V	○	WHITE SIGNAL INDICATOR WITH 10 mm 24V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10S/24V	●	YELLOW SIGNAL INDICATOR WITH 10 mm 24V AC/DC ARMATURE AND SILICONE CABLE
XSL-AS-10M/24V	●	BLUE SIGNAL INDICATOR WITH 10 mm 24V AC/DC ARMATURE AND SILICONE CABLE

Signal Indicator with 22 mm Voltmeter




Type Code	Color	Explanation
XVSL - 22K	●	22 mm 24-550V RED VOLTMETER WITH LED
XVSL - 22Y	●	22 mm 24-550V GREEN VOLTMETER WITH LED
XVSL - 22B	○	24-550V WHITE VOLTMETER WITH LED
XVSL - 22S	●	22 mm 24-550V YELLOW VOLTMETER WITH LED
XVSL - 22M	●	22 mm 24-550V BLUE VOLTMETER WITH LED

Signal Indicator with 22 mm Ammeter




Type Code	Color	Explanation
XASL - 22K	●	22 mm 0-100A RED AMMETER WITH LED
XASL - 22Y	●	22 mm 0-100A GREEN AMMETER WITH LED
XASL - 22B	○	22 mm 0-100A WHITE AMMETER WITH LED
XASL - 22S	●	22 mm 0-100A YELLOW AMMETER WITH LED
XASL - 22M	●	22 mm 0-100A BLUE AMMETER WITH LED

22 mm LED Buzzers

Model	Type Code	Explanation
	XBZ - 22K / 220V	220V AC/DC LED WITH RED SOUND LED FLASHING WARNING BUZZER
	XBZ - 22K / 24V	24V AC/DC LED WITH RED SOUND LED FLASHING WARNING BUZZER

22 mm Spring Buttons

Model	Type Code	Color	Explanation
	XYB - K - 01	●	1NC CONTACT SPRING BUTTON RED
	XYB - Y - 10	●	1NO CONTACT SPRING BUTTON GREEN
	XYB - S - 10	●	1NO CONTACT SPRING BUTTON YELLOW
	XIB - YK - 11	● ●	1NO/1NC CONTACT TWIN BUTTON


40 mm Permanent Mushroom Button

Model	Auxiliary Contact	Type Code	Explanation
	1NK	XMB - K - 01	40 mm PERMANENT 1NC CONTACT

Permanent Latch Button

Model	Auxiliary Contact	Type Code	Explanation
	1NO (0-1 Contact)	XKBM - 10	1NO CONTACT 0-1
	2NO (1-0-2 Contact)	XKBM - 20	2NO CONTACT 1-0-2

Button Accessories

Model	Type Code	Explanation
	XMB - ETK	EMERGENCY STOP LABEL
	XKB - 01	CONTACT BLOCK FOR START BUTTON 1NO (GREEN)
	XKB - 02	CONTACT BLOCK FOR STOP BUTTON 1NC (RED)

600V Emergency Stop Button

Model	Type Code	Explanation
	XACS-01	EMERGENCY STOP BUTTON WITH 1 NC CONTACT



600V Short Latch Button

Model	Type Code	Explanation
	XKM-2-10	SHORT LATCH BUTTON WITH 1 NO CONTACT (2 POSITIONS)
	XKM-3-20	SHORT LATCH BUTTON WITH 2 NO CONTACTS (3 POSITIONS)
	XLKM-2-10	1 NO CONTACT LED SHORT LATCH BUTTON (2 POSITIONS)
	XLKM-3-20	2 NO CONTACT LED SHORT LATCH BUTTON (3 POSITIONS)
	XLUM-2-10	1 NO CONTACT LED LONG LATCH BUTTON (2 POSITIONS)
	XLUM-3-20	2 NO CONTACT LED LONG LATCH BUTTON (3 POSITIONS)
	XAKM-2-10	1 NO CONTACT MOMENTARY SHORT LATCH BUTTON (2 POSITIONS)
	XAKM-3-20	2 NO CONTACT MOMENTARY SHORT LATCH BUTTON (3 POSITIONS)



600V LED Start-Stop Button

Model	Type Code	Explanation
	XLSS-11	1 NO+1 NC CONTACT LED START STOP BUTTON




600 V Contact Permanent Switch Button


Model	Type Code	Explanation
	XKA-2-10	1 NO CONTACT PERMANENT KEYED BUTTON (2 POSITIONS)
	XKA-3-20	2 NO CONTACTED KEYED BUTTON (3 POSITIONS)




600V Mushroom Button

Model	Type Code	Explanation
	XMA-Y-10	1 NO CONTACT MOMENTARY MUSHROOM BUTTON
	XMK-Y-10	1 NO CONTACT PERMANENT MUSHROOM BUTTON


Mushroom Button with 600V LED

Model	Type Code	Explanation
	XLMA-Y-10	1 NO CONTACT LED MOMENTARY MUSHROOM BUTTON
	XLMK-Y-10	1 NO CONTACT LED PERMANENT MUSHROOM BUTTON

600V Flash Button

Model	Type Code	Explanation
	XAF-Y-10	MOMENTARY FLASH BUTTON WITH 1 NO CONTACT
	XKF-Y-10	PERMANENT FLASH BUTTON WITH 1 NO CONTACT

Flash Button with 600V LED

Model	Type Code	Explanation
	XAB-Y-10	1 NO CONTACT LED MOMENTARY FLASH BUTTON
	XKB-Y-10	1 NO CONTACT LED PERMANENT FLASH BUTTON

It is used to get feedback at the start, stop, finish of a job in electrical installations or in emergency situations. It facilitates device use and control. Wherever there are humans and machines; It ensures quality and safe work. Signals and buttons with different designs, depending on the facility to be used, are produced as non-flammable, with LEDs, and with long mechanical and electrical life.


Signal Indicator:

Panel signal indicator are electrical equipment with LED indicators designed to make the user aware of any power cut or malfunction in the electrical circuit connected to the panel. It comes in two different types to be mounted on the cover or rail system of the electrical panel. It notifies the user when the automation system is activated or deactivated in mechanisms operating based on PLC systems. Rail led signal indicators are used in the electrical panel. There are different color LED light options.

- * Signal lamps with voltmeter and ammeter are available in 22mm red, white, green, yellow and blue color options.
- * Compliant with IEC/EN 60947 standards

Buttons:

- * Spring loaded and mushroom 22mm buttons
- * Spring button types with red, green and yellow contacts
- * Latch button alternative
- * Emergency stop label available
- * 1NO Contact block for green start button
- * 1NC Contact block for red start button
- * Twin button with 1NO/1NC contact

24 / 110 / 220 / 250 / 550 / 600 V
AC / DC

voltmetre / ampermetre
1NC, 1NO, 2NO, 1NO+1NC



Change over switches (also known as main isolator switches) are devices or systems that isolate a particular circuit for maintenance purposes and prevent currents from passing through. These switches are used for a range of electrical devices and applications including power grids, kitchen appliances and much more. Moreover, it is also possible to see it in networks as they reserve a circuit within a system or network for repair or maintenance. Circuit breakers are very common electrical switches that cut off the circuit's power supply when excessive current or charging is detected. In a nutshell, they act as circuit shields to ensure that no damage occurs due to excessive currents trying to pass through.

Due to their method of operation, circuit breakers are very useful even when the load is on and can also be used when the load is off. Conversely, insulators are only useful when the circuit is in the 'no load' position and their use is not recommended when current is flowing through them.

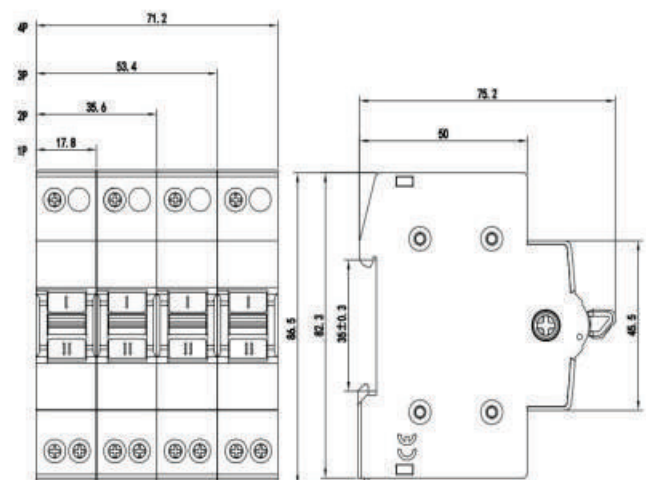
Most devices need an isolation switch; If you intervene while it is on, accidents may occur regardless of the device.

XKoren Electric Isolator Switches; It should be located separately from the device but in an accessible place to provide easy access and manipulation

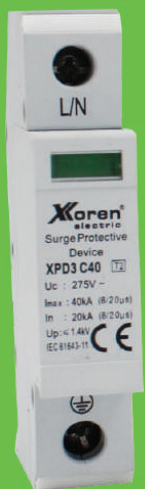
- **Unipolar:** This is a switch that provides power to an electrical circuit and is most often used in single-phase circuits. It is also usually located on the live leg of the circuit; Therefore, be sure to turn off the power to this section before repair work is carried out. However, they are mostly used for small devices such as lights and are not as safe as double-pole isolator switches. This is because when turning off the power of the live leg; The neutral leg is still connected and this can be dangerous in some situations.
- **Bipolar:** These are also used for single-phase circuits and are designed to isolate circuit breakers and transmission lines for maintenance purposes

XKoren Electric reversing switches are used to provide control between two power supplies. Rail type I-O-II provides positioning. It is an electrical switch that allows manual or automatic switching of a load from one electrical source to another or vice versa. It ensures that power supplies are properly isolated when not in use. If a generator is used in homes or workplaces, a generator changeover switch should be used so that the generator can be turned on quickly in case of a power outage. It is used in telecommunication and data networks, industrial systems, hospitals, educational buildings, shopping malls, warehouses and small businesses. Quick installation and ease of maintenance-repair provide user comfort as the On/Off position corresponds to the contacts.

PASS KEY		XCS
Number of Poles	P	1, 2, 3, 4
Rated Operating Voltage (Ue)	v	230/240
Rated Current	A	63.....125
Rated Operating Frequency	Hz	50 / 60
Rated Insulation Voltage (Ui)	v	500
Pollution Degree		2
Standard		IEC60947-3
Electrical Life	op.	1.500
Mechanical Life	op.	8.500
Max. Working Period	op./h	25
Terminal Connection Type		kablo barası
Nominal Short Circuit Capacity		20Ie, t=0.1 sn
Tightening Torque		3.May
Usage Category		AC-22A
Protection Class		IP20
On/Off Indicator		✓



DC PRODUCTS



Among the electric currents produced as AC and DC, DC direct current is a type of current that does not change direction and is formed as a result of the flow of electric charges from high potential to low potential.

Cutting DC fault currents with circuit breakers is not as easy as cutting AC fault currents since they do not exceed 0 value. Using AC breakers in DC circuits may cause fire as a result of failure to dampen the high arc that occurs. For this reason, DC circuit breakers are produced specifically for DC systems.

DC is obtained with a battery, dynamo, accumulator or rectifier circuit, and a direct current breaker is needed in every area where these circuits are used. The main application areas are metro-train-tram lines, DC electric motors, rectifier outputs, photovoltaic systems, electric vehicle charging stations, control units of gas or electric cars, control panels of large power systems.

Protection in DC systems is provided by DC automatic fuses, DC Compact Switches, DC cylindrical fuses, DC automatic fuses and DC Contactors.

In the solar panel system, DC current produced by solar panels connected in series is converted into AC current by connecting to the inverter. During this process, DC protective circuit breakers should be used in the system. The use of protective circuit breakers in DC systems is especially preferred for solar systems.

Solar panels, which are a long-term investment, may be exposed to lightning strikes since they are installed in open fields and on roofs. Since the inverters used in solar systems are electronic, the voltage protection elements and DC surge arresters to be used beforehand provide protection against instantaneous overvoltages and overvoltages caused by lightning.

As XKoren Elektrik, we produce special solutions for DC systems with DC Automatic Fuses, DC Compact Switches, DC Cylindrical Fuses, DC Contactors and DC Surge Arresters designed in accordance with international standards.

Compact circuit breakers with 1000V DC operating voltage and 36kA breaking capacity can be produced up to 250A and provide protection against overcurrents; XKoren DC Surge Arresters with 40kA discharge capacity provide protection by discharging high currents caused by switching and lightning to the ground. In addition, with its easy installation and replaceable cartridges, it fully fulfills its protection functions with XKoren DC cylindrical fuses with an operating voltage of up to 1500V DC, XKoren DC Automatic Fuses with 10kA breaking capacity and 1000V DC operating voltage, and 24V and 48V DC contactors.

Class I (Class B)

Model	Pole	Max. Operating Voltage Uc AC (V)	Voltage Protection Level Up (kW)	Iimp (kA)	In (kA)	Type Code	Explanation
XPD-B	1P	255V	2,5	50kA (10/350µs)	100kA (8/20µs)	XPD14-1P-B100	1P CLASS B 255V AC SURGE ARRESTER
	4P	400V	2,5	50kA (10/350µs)	100kA (8/20µs)	XPD14-4P/B100	BEFORE METER 4P CLASS B 400V AC SURGE ARRESTER BEFORE METER

Class I-II (Class B-C)

Model	Pole	Max. Operating Voltage Uc AC (V)	Voltage Protection Level Up (kW)	Iimp (kA)	Max. Discharge Current Imax (kA)	In (kA)	Type Code	Explanation
XPD-BC	3P+N	400V	1,4	12,5kA (10/350µs)	100kA (8/20µs)	20kA (8/20µs)	XPD3-3NP/BC20	3P+NB AND C CLASS 400V AC SURGE ARRESTER BEFORE THE METER
	3P+N	400V	1,4	12,5kA (10/350µs)	100kA (8/20µs)	50kA (8/20µs)	XPD3-3NP/BC50	3P+NB AND C CLASS 400V AC SURGE ARRESTER BEFORE THE METER
	4P	400V	2,5	50kA (10/350µs)	-	100kA (8/20µs)	XPD14-4P/BC100	4P B AND C CLASS 400V AC SURGE ARRESTER BEFORE THE METER

Class II (Class C)

Model	Pole	Max. Operating Voltage Uc AC (V)	Voltage Protection Level Up (kW)	Iimp (kA)	In (kA)	Type Code	Explanation
XPD-C	1P	275V	1,4	40kA (8/20µs)	40kA (8/20µs)	XPD3-1P/C40	1P CLASS C 275V AC SURGE ARRESTER POST METER
	1P+N	275V	1,4	40kA (8/20µs)	40kA (8/20µs)	XPD3-1NP/C40	1P+N POLE CLASS C 275V AC SURGE ARRESTER AFTER METER
	3P	400V	1,4	40kA (8/20µs)	40kA (8/20µs)	XPD3-3P/C40	3P CLASS C 400V AC SURGE ARRESTER POST METER
	3P+N	400V	1,4	40kA (8/20µs)	40kA (8/20µs)	XPD12-3NP/C40	3P+NC CLASS 400V AC SURGE ARRESTER AFTER METER
XPD-C-KARTUŞ	1P	275V	1,4	40kA (8/20µs)	40kA (8/20µs)	XPD3-B0-C40	1P CLASS C 275V AC REPLACEMENT CARTRIDGE

Class III (Class D)

Model	Pole	Max. Operating Voltage Uc AC (V)	Voltage Protection Level Up (kW)	Iimp (kA)	In (kA)	Type Code	Explanation
XPD-D	1P	275V	0,9	5kA (8/20µs)	5kA (8/20µs)	XPD3-1P/D5	1P CLASS D 275V AC SURGE ARRESTER AFTER METER

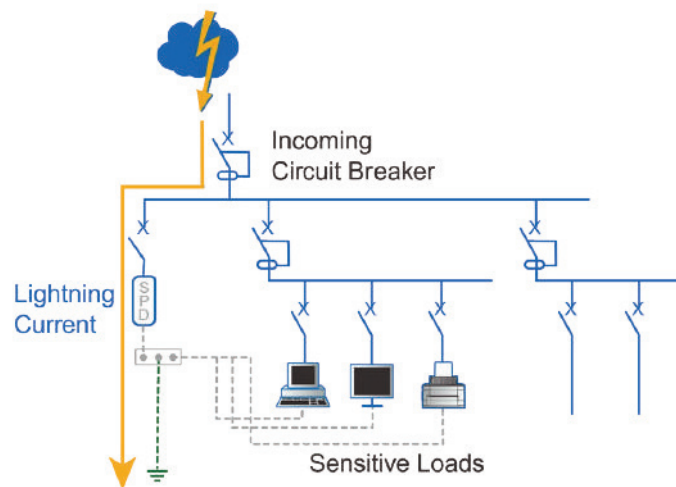


Surge arresters are designed to protect against transient overvoltage conditions. Large-surge events such as lightning can reach hundreds of thousands of volts and cause sudden or intermittent equipment failure. Constant exposure to these fluctuations damages sensitive electronic equipment within the facility. Considering that the use of external lightning rods in the facility is sufficient to protect against lightning, believing that there will be no damage if lightning does not strike the facility directly, using it in the main panel but not in the secondary panel, not paying attention to the use of B + C type surge arresters in the main panels, using the surge arrester at the shortest distance to the ground line and with the appropriate cable. not connecting with cross sections, not choosing a product suitable for the region, not using surge arresters in sensitive automation systems such as CCTV, camera, PLC, SCADA or using a surge arrester other than D type; it is one of the biggest mistakes that puts facilities and human lives at risk.

Surge Arrester Working Principle

Surge protection devices include at least one nonlinear component (a varistor range) whose electrical resistance varies with the function of applied voltage. Their function is to direct discharge or pulse current and limit overvoltage in the equipment.

- During nominal operation (e.g. When there is no surge), it has no effect on the system in which the surge protection device is installed. It acts as an open circuit and maintains the insulation between active conductors and ground.
- When a voltage surge occurs, the surge protection device lowers its impedance within a few nanoseconds and diverts the surge current.
- When the surge stops, the surge protection device will return to its original impedance and return to an open circuit state.



Surge Arrester Classes - Installation Location Matching

***Class I - Type 1 - B Type Surge Arrester:** It is used in areas such as mountains, hills and high altitude places where negative atmospheric events such as storms and lightning are common. In this case, the surge arrester is mounted at the beginning of the electrical installation and prevents excess energy from reaching the system, and the discharge occurs in 350 microseconds. If there is a lightning arrester application in the building or up to 50m around it, type B surge arrester should be selected. In the LV installation, they are mounted at the closest location where the supply line enters the building. They are used before the electricity meter.







***Class II - Type 2 - C Type Surge Arrester:** It is the complement of the first type. It is resistant to overvoltages caused by maneuvers on the power line. Class II surge arresters should be positioned approximately 5m away from class I surge arresters. Therefore, they are mounted directly on the electrical system panel. It is used after the electricity meter.

***Class III - Type 3 - D Type Surge Arrester:** It should be mounted between the first two and plugged directly into the back of each home appliance's socket. This guarantees additional protection. If a voltage passes through Class I, it is doubled and can only be completely eliminated by Class III. When the distance from the distribution panel where the Class II surge arrester is located exceeds 30 m, Class III application should be made.

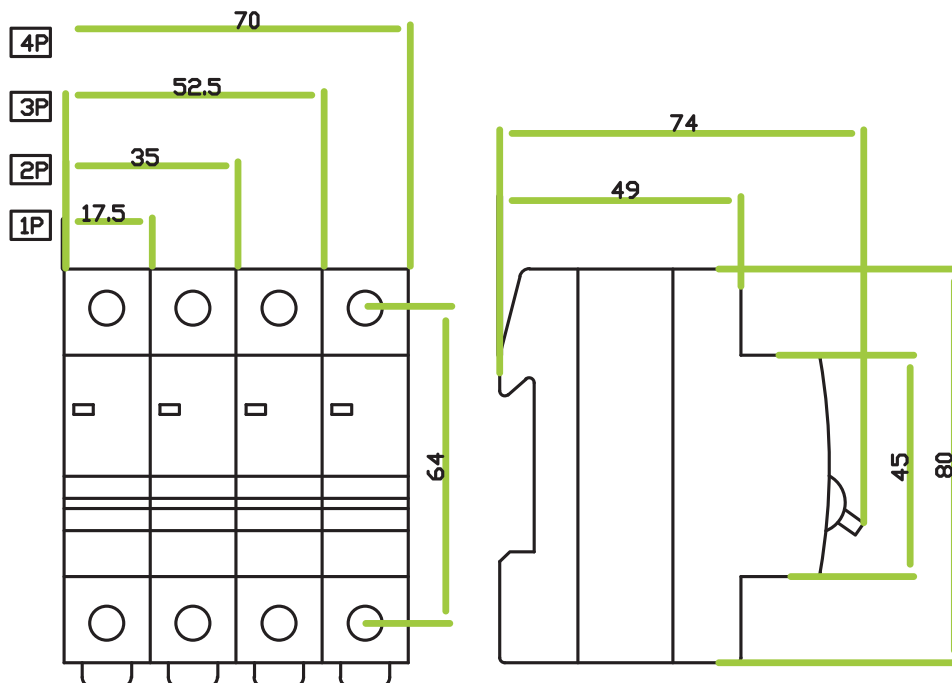
***Class I+II - Type 1+2 - B+C Type Surge Arrester:** It is a combination surge arrester type. They are used if the distance between the main distribution panel and secondary distribution panels exceeds 10 m.



Working Conditions

Place of use	Internal (Inside a Building)	External (Outside the Building)
 Elevation	-500 m / + 2000 m	
 Frequency	50 Hz	
 Heat	-5 / +40 °C	-40 / +70 °C
 Moisture	%o5 - %o95	%o5 - %o100
 Air pollution	Level II	Level III
 Assembly	Constant (To 35mm DIN Rail/Panel)	

SURGE ARRESTERS											
		XPD-B		XPD-BC		XPD-C			XPD-C- Cartridge	XPD-D	
Pole	P	1	4	3P+N	4I		1P+N	3	3P+N	1I	
Max. Operating Voltage	VAC	255	255	400			275	400		2752	75
Nominal Current (Ie)	kA	100		20,50	100		40			5	
Nominal Thermal Current (Ith)	kA	100		20,50	100		40			5	
Voltage Protection Level Up	kV	2,5		1,4	2,5		1,4		-	0,9	
Rated Discharge Current	kA	100		20			20		-	3	
Lightning Impulse Current Iimp	kA	50 (10/350µs)		12,5 (10/350µs)	50 (10/350µs)		-				
Reaction time	ns	100		25			<25		-	<25	
Operating Ambient Temperature	°C	(-40)...+80									
Usage Area Height	m	(-500)...+2000									
Frequency	Hz	50/60									
Place of Use Humidity %	%	Internal 5-95 / External 5-100									
Air pollution		Internal level II / External level III									
Protection Class		IP20									
Assembly		35 mm DIN Rail / Panel									
Conductor Cross Section	mm ²	15...35		16							6





While Xkoren DC circuit breakers protect the electrical system against overload currents and short circuit currents, they are produced under CE quality assurance in accordance with international standards

Xkoren DC automatic fuses are produced with 1, 2, 4 pole 10kA breaking capacities and high electrical and mechanical life.

Number of Poles	1P	2P	3P	4P
Rated Current	1-125A	1-125A	-	1-125A
Nominal Insulation Voltage	1000V	1000V	-	1000V
Rated Operating Voltage	250V	500V	-	1000V
Rated Impulse Withstand Voltage	4kV	4kV	-	4kV
Cutting Capacity	10kA	10kA	-	10kA
Switching on Curve	C	C	-	C
Mechanical Life	10000	10000	-	10000
Electrical Life	2500	2500	-	2500
Operating Temperature	-35/+70	-35/+70	-	-35/+70
Storage Temperature	-40 to +80	-40 to +80	-	-40 to +80

DC Circuit Protection

Instantaneous tripping values of automatic fuses to be used in DC circuits increase by approximately 40%. For example, while a type B 6 A automatic fuse makes instantaneous tripping between 18 A and 30 A in an AC circuit, the same fuse will trip between 25.2 A and 42 A in a DC circuit.

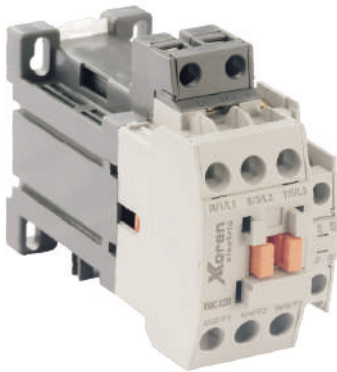
Instantaneous Switching on Curve	Instantaneous Trip Value for DC Circuits	Thermal Trip Value for DC Circuit
B	4-7	>1.45xIn
C	7-14	>1.45xIn
D	14-28	>1.45xIn

When the coil is de-energized, the DC contactor uses a free-flow diode to release the electromagnetic force accumulated in the inductor.

The freewheel diode structure is not used by the AC contactor. Instead, it uses shade coils to keep the power on the equipment running effectively and laminated iron cores to stop heat loss. DC contactor can operate at a maximum frequency of 1200 times per hour.

DC is typically used for transmission at lower voltage levels, diffuse levels, and very high levels.

24V Power Contactor




Model	Rated Power(kW) 400 VAC	Rated Current (A) AC1	Rated Current (A) AC3	Auxiliary Contact
XMC-9 / 24DC	4kW	25A	9A	1NO + 1NC
XMC-12 / 24DC	5,5kW	25A	12A	1NO + 1NC
XMC-18 / 24DC	7,5kW	40A	18A	1NO + 1NC
XMC-22 / 24DC	11kW	40A	22A	1NO + 1NC
XMC-32 / 24DC	15kW	50A	32A	2NO + 2NC
XMC-40 / 24DC	18,5kW	60A	40A	2NO + 2NC
XMC-50 / 24DC	22kW	80A	50A	2NO + 2NC
XMC-65 / 24DC	30kW	100A	65A	2NO + 2NC
XMC-75 / 24DC	37kW	110A	75A	2NO + 2NC
XMC-85 / 24DC	45kW	125A	85A	2NO + 2NC

48V Power Contactor



48V DC POWER CONTACTOR											
Type		XMC-9D	XMC 12D	XMC 18D	XMC 22D	XMC 32D	XMC 40D	XMC 50D	XMC 65D	XMC 75D	XMC 85D
Number of Poles	P	3									
Rated Operating Voltage (Ue)	V	380-440V (400V AC)									
Rated Insulation Voltage (Ui)	V	380 - 440V									
Operating Frequency	Hz	50/60									
Standard		IEC/EN 60947-4-1									
Electrical Life	op.	20000					15000				
Mechanical Life	op.	2000					1500				
Current and Power Values	Thermal Current AC-1 (A)	25	25	40	45	55	60	100	115	125	135
	Thermal Current AC-3 (A)	9	12	18	22	32	40	50	65	75	85
	Rated Power (kW)	4	5,5	7,5	11	15	18,5	22	30	37	45
Accessories (Standard)		1NO + 1NC					2NO + 2NC				
Accessory	Side										
	Top	✓									
Type		M3.5									
Rated Operating Voltage (Ue)	Frame (Wire Diameter)	1 - 14 mm ² (φ1.6-3.6)			2 - 22 mm ²		2 - 38 mm ²		2 - 42 mm ²		

It is used as a consumable material in electricity, heat and sound insulation and in the insulation of pipes in split air conditioners. It is produced to be resistant to flame and high temperatures. Offering an economical, reliable and practical protection solution, insulating tape is an insulating material, also known as 'electrical tape'. It is highly resistant up to 80°C. It has a rubber structure.

XBT
0,13 x 18 mm

B class

Features	Value	Test Method
Thickness	0,13±0,015 mm	EN 1942
Tensile Strength	≥15N/cm	ISO 29864
Flammability	Class B (self-extinguishing)	ASTM D1000
Dielectric Strength	≥40 kV/mm	IEC 60454

Insulating Tape

Model	Type Code	Color	Thickness	Width	Length
	XBT-001-S	●	0,13 mm	18 mm	10Y (9.14 m)
	XBT-001-K	●	0,13 mm	18 mm	10Y (9.14 m)
	XBT-001-M	●	0,13 mm	18 mm	10Y (9.14 m)
	XBT-001-Y	●	0,13 mm	18 mm	10Y (9.14 m)
	XBT-001-B	○	0,13 mm	18 mm	10Y (9.14 m)
	XBT-001-SA	●	0,13 mm	18 mm	10Y (9.14 m)



Xkoren[®] electric

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