

TWOMASTER



TWOMASTER SPD SERIES

Surge Protective Device

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The solution for

- Industry
- All types building

Compliance with standards

- IEC 61643-11
- EN 61643-11

Approvals and certifications

ICR Polska Co., Ltd. POLAND



Product Description

TWOMASTER SPD series is designed to ensure the protection of your low voltage distribution installations and your electrical equipment. It acts against industrial operation surges and surges owing to lightning.

Type1+2 of surge protective device is particularly recommended where there is a risk of direct impact of lightning strikes.

Remote signalling :

With the remote signalling contact , you can upload the alert to a supervisory device.

Applications :

Located in the main switchboard, upstream of the distribution panels.

Main electrical switchboard + building protected against lightning either:

- through lightning conductors,
- through mesh cages.

Main switchboard in buildings subject to a high risk of lightning strikes such as classified installations, installations located in areas prone to a high density of lightning strikes, high-rise buildings, presence of antenna towers, chimneys.

Sites located at high altitude.

Distribution board of a building with presence of Lightning Protection Systems.

Product Code

TWOMASTER SPD Series Surge Protective Device							
Product Code	No. of poles	Type	Un	I _{max}	In	I _{imp} (total)	Aux Contact
71114100	4 Pole	Type 1	400VAC	100kA	50kA	100kA	Yes
71104100	4 Pole	Type 1	400VAC	100kA	50kA	50kA	No
71414100	4 Pole	Type 1+2	400VAC	100kA	50kA	50kA	Yes
71404100	4 Pole	Type 1+2	400VAC	100kA	50kA	50kA	No
71514100	4 Pole	Type 1+2+3	400VAC	100kA	20kA	50kA	Yes
71504100	4 Pole	Type 1+2+3	400VAC	100kA	20kA	50kA	No
72413100	3 Pole	Type 1+2	800VAC	100kA	20kA	25kA	Yes
72403100	3 Pole	Type 1+2	800VAC	100kA	20kA	25kA	No
71214040	4 Pole	Type 2	400VAC	40kA	20kA		Yes
71204040	4 Pole	Type 2	400VAC	40kA	20kA		No
71212040	2 Pole	Type 2	400VAC	40kA	20kA		Yes
71202040	2 Pole	Type 2	400VAC	40kA	20kA		No
71612010	2 Pole	Type 2+3	400VAC	10kA	5kA		Yes
71602010	2 Pole	Type 2+3	400VAC	10kA	5kA		No
71311010	1 Pole	Type 3	400VAC	10kA	5kA		Yes
71311010	1 Pole	Type 3	400VAC	10kA	5kA		No
73212040	2 Pole	Type 2	1000VDC	40kA	20kA		Yes
73202040	2 Pole	Type 2	1000VDC	40kA	20kA		No
74213040	3 Pole	Type 2	1500VDC	40kA	20kA		Yes
74203040	3 Pole	Type 2	1500VDC	40kA	20kA		No
74412040	2 Pole	Type 1+2	1500VDC	40kA	20kA	9kA	Yes
74402040	2 Pole	Type 1+2	1500VDC	40kA	20kA	9kA	No
74413040	3 Pole	Type 1+2	1500VDC	40kA	20kA	13,5kA	Yes
74403040	3 Pole	Type 1+2	1500VDC	40kA	20kA	13,5kA	No

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Technical Data

Type		SPD-T1	SPD-T1+T2	SPD-T1+T2+T3	SPD-T1+T2	SPD-T2	SPD-T2
SPD		Type 1	Type 1+2	Type 1+2+3	Type 1+2	Type 2	Type 2
Rated Operating Voltage	Un	230/400VAC			800VAC [L-L]	230/400VAC	230VAC
Max. Operating Voltage [L-N]	Uc	320VAC	320VAC	280VAC	1000VAC [L-L]	280VAC	280VAC
Max. Operating Voltage [N-PE]	Uc	255VAC	255VAC	255VAC		255VAC	255VAC
Nominal Discharge Current (8/20µs) [L-N/N-PE]	In	50kA	20kA / 50kA	20kA / 20kA	20kA	20kA / 20kA	20kA / 20kA
Max. Discharge Current (8/20µs) [L-N/N-PE]	I_{max}	100kA	50kA / 100kA	50kA / 100kA	100kA	40kA / 40kA	40kA / 40kA
Impulse Discharge Current (10/350µs) [L-N/N-PE]	I_{imp}	25kA	12,5kA / 50kA	12,5kA / 12,5kA	6,25kA		
Total Impulse Current (10/350µs)	I_{imp} / I_{total}	100kA	50kA	50kA	25kA		
	Uoc			10/6kV			
Voltage Protection Level	Up	1.8kV	1,5kV	1,5kV	5kV	1,5kV	1,5kV
Response Time [L-N/N-PE]	t_a	100ns	25/100ns	25/100ns	25ns	25/100ns	25/100ns
Operating Temperature Range	T_u	-40°C ... +80°C					
Operating State / Fault Indication		Green : Normal - Red : Invalid					
Number of poles		3P+N	3P+N	3P+N	3P (4 modules)	3P+N	1P+N
Size		144mm	72mm	72mm	144mm	72mm	36mm
For mounting on		35mm Din Rail					
Place of instalation		Indoor Instalation					
Degree of protection		IP20					
Flame Class		V0					
Standarts		IEC / EN 61643-11:2012+A11:2018					

Technical Data

Type		SPD-T2+T3	SPD-T3	SPD/PV-T2	SPD/PV-T2	SPD/PV-T1+T2
SPD		Type 2+3	Type 3	Type 2	Type 2	Type 1+2
Rated Operating Voltage	Un	230VAC	230VAC	1000VDC	1500VDC	1500VDC
Max. Operating Voltage [L-N]	Uc	320VAC	280VAC	Ucpv 1000VDC	Ucpv 1500VDC	Ucpv 1500VDC
Max. Operating Voltage [N-PE]	Uc	255VAC	255VAC			
Nominal Discharge Current (8/20μs) [L-N/N-PE]	In	5kA	5kA	20kA	20kA	20kA
Max. Discharge Current (8/20μs) [L-N/N-PE]	I_{max}	10kA	10kA	40kA	40kA	40kA
Impulse Discharge Current (10/350μs) [L-N/N-PE]	I_{imp}					4,5kA
Total Impulse Current (10/350μs)	I_{imp} / I_{total}					2P:9kA /3P:13,5kA
	Uoc	10kV	10kV			
Voltage Protection Level	Up	1,5kV	1,0kV	3,5kV	4,5kV	4,5kV
Response Time [L-N/N-PE]	t_a	25/100ns	25ns	25ns	25ns	25ns
Operating Temperature Range	T_u	-40°C ... +80°C				
Operating State / Fault Indication		Green : Normal - Red : Invalid				
Number of poles		1P+N	1P	- / +	- / G / +	- / G / +
Size		18mm	18mm	36mm	54mm	72mm/108mm
For mounting on		35mm Din Rail				
Place of instalation		Indoor Instalation				
Degree of protection		IP20				
Flame Class		V0				
Standarts		IEC / EN 61643-11:2012+A11:2018				



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