

Surge-Trap® K - K2 2PG

Power Line SPDs

DIN RAIL - IEC TYPE 2



General Data

Internal configuration	1+1
No. Poles	2-Pole
No. DIN rail modules	2
Network configuration	TT, TNS
IEC SPD Type	Class II
EN SPD Type	Type 2
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Protection Modes	L-N / N-PE
Product standards	*IEC 61643-11 *EN 61643-11 *UL 1449 5th Edition



PART NUMBERS

XXX	275	320	440
K2-2PGXXX	44020200	44020208	44020216
K2-2PGXXX-M (with Microswitch)	44020201	44020209	44020217

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

K2-2PGXXX, K2-2PGXXX-M (with Microswitch)	275	320	440
Maximum continuous operating voltage (AC) - Uc (L-N) [V]	275	320	440
Maximum continuous operating voltage (AC) - Uc (N-PE) [V]	255		440
Nominal voltage AC 50-60 Hz - Un [V]	230	277	400
Nominal discharge current (8/20)- In [kA]	20		
Max Discharge Current (8/20) - I _{max} (L-N) [kA]	50		
Max Discharge Current (8/20) - I _{max} (N-PE) [kA]	50		
Voltage protection level at In - Up (L-N) [kV]	≤1,5		≤2
Voltage protection level at In - Up (L-PE) [kV]	≤1,8		≤2,5
Voltage protection level at In - Up (N-PE) [kV]	≤1,5		≤2
Maximum back-up fuse [A [gG]]	315		
Short circuit withstand- I _{scrr} [kA]	25		
Following current - I _{fi} [A]	100		
Residual current- I _{pe} [μA]	<10		
Response time - t _A (L-N) [ns]	≤25		
Response time - t _A (N-PE) [ns]	≤100		
TOV 5s (LV systems, withstand)- Ut(L-N) [V]	337	403	581
TOV 120min (LV systems, fail safe)- Ut(L-N) [V]	442.5	528	763
TOV 200 ms (HV Systems, withstand) - Ut (N-PE) [V]	1200		
Dynamic thermal disconnection	Yes		
Thermal protection behaviour	OCM (Open Circuit Mode)		
No. of ports	1		

DATASHEET

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DIN RAIL - IEC TYPE 2

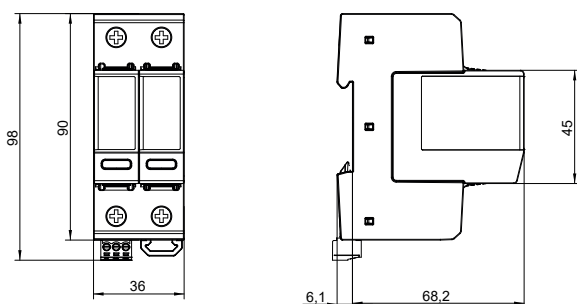
SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

K2-2PGXXX, K2-2PGXXX-M (with Microswitch)	275	320	440
Nominal discharge current (8/20) - In [kA]		20	
Maximum continuous operating voltage - MCOV (L-N) [V]	275	320	440
Maximum continuous operating voltage - MCOV (L-G) [V]	275	320	440
Maximum continuous operating voltage - MCOV (N-G) [V]		305	440
Voltage protection rating - VPR (L-N) [V]	1000	1200	1500
Voltage protection rating - VPR (L-G) [V]		1500	2000
Voltage protection rating - VPR (N-G) [V]		900	1000
Short-Circuit Current Rating-SCCR [kA]	85	100	42

MECHANICAL AND ENVIRONMENTAL FEATURES

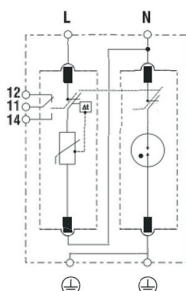
K2-2PGXXX, K2-2PGXXX-M (with Microswitch)	275	320	440
Temperature range [°C]		-40 ... 85	
Humidity range [%]		5 ... 95	
Max. Altitude [m]		4000	
Indication System Type		Green (OK) / Not green (replace)	
Insulating material		PA6 CT1 & PA66 CT1	
Housing color		Grey RAL 7035	
Enclosure - IP		IP20	
Flammability class		UL94 V-0	
Solid conductor cross section		1,5...35mm ²	
Stranded conductor cross section		1,5...25mm ²	
Torque rating [N m]		3	
Remote indication conductor cross section [mm ²]		0.5 ... 1.5	
Remote indication switching capacity [V/A]		AC: 250/0.5 DC: 30/1	

DIMENSIONS AND WEIGHT



K2-2PGXXX K2-2PGXXX-M (with Microswitch)	275	320	440
Net Weight [kg]	0.242	0.231	0.223
Gross weight [kg]	0.272	0.26	0.252
Packaging dimensions (H x W x L) [mm]	97 × 38 × 118		

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

K2-2PGXXX K2-2PGXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005
K2-N(Neutral)	44020000		44020013

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