

Surge-Trap® K - K2 4PG

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	3+1
No. Poles	4-Pole
No. DIN rail modules	4
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
K2-4PGXXX	44020400	44020408	44020416
K2-4PGXXX-M (with Microswitch)	44020401	44020409	44020417

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

K2-4PGXXX, K2-4PGXXX-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]	230/400	277/480	400/690
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)	≤1,5		≤2
Voltage protection level at In - Up (L-PE)	≤1,8		≤2,5
Voltage protection level at In - Up (N-PE)	≤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)	≤25		
Response time - t _A (N-PE)	≤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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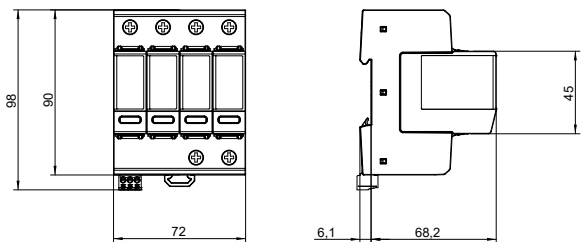
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DIN RAIL - IEC TYPE 2

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES			
K2-4PGXXX, K2-4PGXXX-M (with Microswitch)	275	320	440
Nominal discharge current (8/20) - In [kA]	20		
Maximum continuous operating voltage - MCOV (L-L) [V]	550	640	880
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		
Voltage protection rating - VPR (L-L) [V]	1800	2000	2500
Voltage protection rating - VPR (L-N) [V]	1000	1200	1500
Voltage protection rating - VPR (L-G) [V]	1500		
Voltage protection rating - VPR (N-G) [V]	900		
Short-Circuit Current Rating-SCCR [kA]	85	100	42

MECHANICAL AND ENVIRONMENTAL FEATURES			
K2-4PGXXX, K2-4PGXXX-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...35mm²		
Stranded conductor cross section	1,5...25mm²		
Torque rating [N m]	3		
Remote indication conductor cross section [mm²]	0.5 ... 1.5		
Remote indication switching capacity [V/A]	AC: 250/0.5 DC: 30/1		

DIMENSIONS AND WEIGHT			
K2-4PGXXX K2-4PGXXX-M (with Microswitch)			
	275	320	440
Net Weight [kg]	0.432	0.436	0.445
Gross weight [kg]	0.475	0.479	0.482
Packaging dimensions (H x W x L) [mm]	97 × 78 × 118		



INTERNAL CONFIGURATION			
REPLACEMENT CARTRIDGES			
K2-4PGXXX K2-4PGXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005
K2-N(Neutral)	44020000		44020013

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