

Surge-Trap® K - K2 4P

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	4+0
No. Poles	4-Pole
No. DIN rail modules	4
Network configuration	TNS
IEC SPD Type	Class II
EN SPD Type	Type 2
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Protection Modes	L-PE / N-PE
Product standards	*IEC 61643-11 *EN 61643-11 *UL 1449 5th Edition



PART NUMBERS				
XXX	275	320	440	
K2-4PXXX	44020404	44020412	44020420	
K2-4PXXX-M (with Microswitch)	44020405	44020413	44020421	

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES				
K2-4PXXX, K2-4PXXX-M (with Microswitch)	275	320	440	
Maximum continuous operating voltage (AC) - Uc [V]	275	320	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) - Imax [kA]		50		
Voltage protection level at In - Up		≤1,5		≤2
Maximum back-up fuse [A [gG]]		315		
Short circuit withstand- Iscrr [kA]		25		
Residual current- Ipe [mA]		<1		
Response time - tA		≤25		
TOV 5s (LV systems, withstand) - Ut [V]	337	403	581	
TOV 120min (LV systems, fail safe)- Ut [V]	442.5	528	763	
Dynamic thermal disconnection		Yes		
Thermal protection behaviour		OCM (Open Circuit Mode)		
No. of ports		1		

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES				
K2-4PXXX, K2-4PXXX-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]	550	640	880	
Maximum continuous operating voltage - MCOV (L-G) [V]	275	320	440	
Maximum continuous operating voltage - MCOV (N-G) [V]	275	320	440	
Voltage protection rating - VPR (L-L) [V]	1800	2000	2500	
Voltage protection rating - VPR (L-N) [V]	1800	2000	2500	

DATASHEET

Surge-Trap[®] K - K2 4P

Power Line SPDs
DIN RAIL - IEC TYPE 2

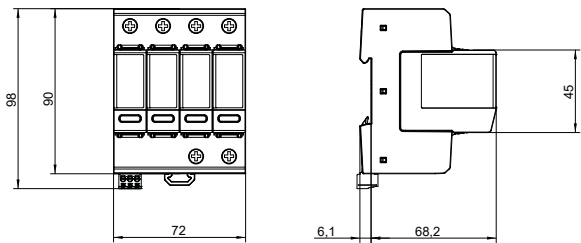
Continue K2-4PXXX, K2-4PXXX-M (with Microswitch)

K2-4PXXX, K2-4PXXX-M (with Microswitch)	275	320	440
Voltage protection rating - VPR (L-G) [V]	1000	1200	1500
Voltage protection rating - VPR (N-G) [V]	1000	1200	1500
Short-Circuit Current Rating-SCCR [kA]	85	100	42

MECHANICAL AND ENVIRONMENTAL FEATURES

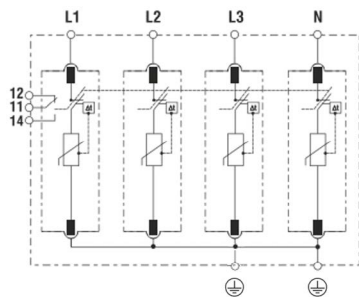
K2-4PXXX, K2-4PXXX-M (with Microswitch)	275	320	440
Temperature range [°C]	-40 ... 85		
Humidity range [%]	5 ... 95		
Max. Altitude [m]	4000		
Indication System Type	Green (OK) / Not green (replace)		
Insulating material	PA6 CT1 & PA66 CT1		
Housing color	Grey RAL 7035		
Enclosure - IP	IP20		
Flammability 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



K2-4PXXX K2-4PXXX-M (with Microswitch)	275	320	440
Net Weight [kg]	0.435	0.465	
Gross weight [kg]	0.465	0.483	0.495
Packaging dimensions (H x W x L) [mm]	97 × 78 × 118		

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

K2-4PXXX K2-4PXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005

DATASHEET

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