Surge-Trap® K - K2 1P

Power Line SPDs

DIN RAIL - IEC TYPE 2



General Data

Internal configuration	1+0
No. Poles	1-Pole
No. DIN rail modules	1
Network configuration	TNS, TNC, TT (only L-N)
IEC SPD Type	Class II
EN SPD Type	Type 2
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Product standards	*IEC 61643-11 *EN 61643-11 *UL 1449 5th Edition

PART NUMBERS			
XXX	**275**	**320**	**440**
K2-1P**XXX**	44020102	44020106	44020110
K2-1P**XXX**-M (with Microswitch)	44020103	44020107	44020111

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES			
K2-1P**XXX**, K2-1P**XXX**-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	277	400
Nominal discharge current (8/20)- In [kA]		20	
Max Discharge Current (8/20) - Imax [kA]		50	
Voltage protection level at In - Up [kV]	≤1,5		≤2
Maximum back-up fuse [A [gG]]		315	
Short circuit withstand- Isccr [kA]		25	
Residual current- Ipe [mA]		<1	
Response time - tA [ns]		≤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			
K2-1P**XXX**, K2-1P**XXX**-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
Voltage protection rating - VPR (L-N) [V]	1000	1200	1500
Voltage protection rating - VPR (L-G) [V]	1000	1200	1500
Short-Circuit Current Rating-SCCR [kA]	85	100	42

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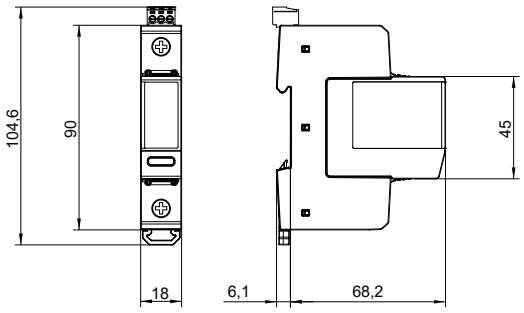
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MECHANICAL AND ENVIRONMENTAL FEATURES

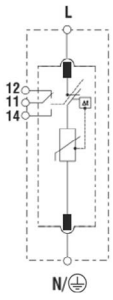
K2-1PXXX, K2-1PXXX-M (with Microswitch)	275	320	440
Temperature range [ºC]		-40 ... 85	
Humidity range [%]		5 ... 95	
Max. Altitude [m]		4000	
Indication System Type		Green (OK) / Not green (replace)	
Insulating material		PA6 CT1 & PA66 CT1	
Housing color		Grey RAL 7035	
Enclosure - IP		IP20	
Flammability 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



K2-1PXXX K2-1PXXX-M (with Microswitch)	275	320	440
Net Weight [kg]	0.127	0.125	0.112
Gross weight [kg]	0.149	0.145	0.129
Packaging dimensions (H x W x L) [mm]		97 × 22 × 118	

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

K2-1PXXX K2-1PXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005

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