

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
K2-1PXXX	44020102	44020106	44020110
K2-1PXXX-M (with Microswitch)	44020103	44020107	44020111

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

K2-1PXXX, K2-1PXXX-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) - I _{max} [kA]	50		
Voltage protection level at In - Up [kV]	≤1,5		≤2
Maximum back-up fuse [A [gG]]	315		
Short circuit withstand- I _{scrr} [kA]	25		
Residual current- I _{pe} [mA]	<1		
Response time - t _A [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

K2-1PXXX, K2-1PXXX-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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Surge-Trap[®] K - K2 1P

Power Line SPDs
DIN RAIL - IEC TYPE 2

MECHANICAL AND ENVIRONMENTAL FEATURES			
K2-1PXXX, K2-1PXXX-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

Technical drawings of the K2-1P surge protector. The front view (left) shows a vertical profile with dimensions: total height 104.6 mm, mounting hole spacing 90 mm, and base width 18 mm. The side view (right) shows the device's depth with dimensions: mounting hole spacing 6.1 mm, total depth 68.2 mm, and outlet height 45 mm.

K2-1P**XXX**

K2-1P**XXX**-M

(with Microswitch)

275

320

440

Net Weight [kg]

0.127

0.125

0.112

Gross weight [kg]

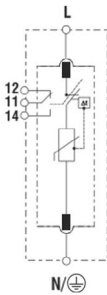
0.149

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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Surge-Trap® K - K2 1PG

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	0+1
No. Poles	1-Pole
No. DIN rail modules	1
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	N-PE
Product standards	*IEC 61643-11 *EN 61643-11 *UL 1449 5th Edition



PART NUMBERS

K2-1PG	44020100
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SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

Maximum continuous operating voltage (AC) - Uc [V]	255
Nominal voltage AC 50-60 Hz - Un [V]	Neutral
Nominal discharge current (8/20)- In [kA]	50
Max Discharge Current (8/20) - I _{max} [kA]	50
Voltage protection level at In - Up [kV]	≤1,5
Maximum back-up fuse [A [gG]]	315
Short circuit withstand- I _{sc} [kA]	25
Following current - I _{fi} [A]	100
Residual current- I _{pe} [μA]	<10
Response time - t _A [ns]	≤100
TOV 200ms (HV systems, withstand)- Ut [V]	1200
Thermal protection behaviour	OCM (Open Circuit Mode)
No. of ports	1

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

Nominal discharge current (8/20) - In [kA]	20
Maximum continuous operating voltage - MCOV (L-N) [V]	305
Maximum continuous operating voltage - MCOV (L-G) [V]	305
Voltage protection rating - VPR (L-N) [V]	900
Voltage protection rating - VPR (L-G) [V]	900

MECHANICAL AND ENVIRONMENTAL FEATURES

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

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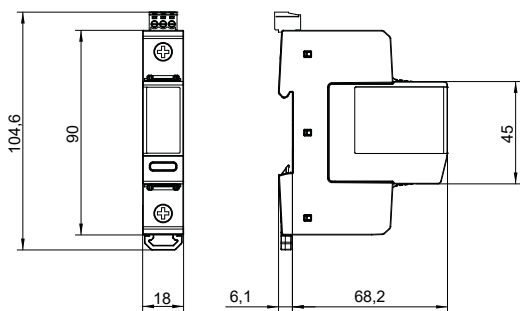
Surge-Trap[®] K - K2 1PG

Power Line SPDs
DIN RAIL - IEC TYPE 2

Continue MECHANICAL AND ENVIRONMENTAL FEATURES

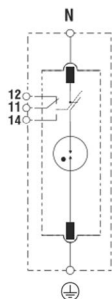
Housing color	Grey RAL 7035
Enclosure - IP	IP20
Flammability class	UL94 V-0
Solid conductor cross section	1,5...35mm ²
Stranded conductor cross section	1,5...25mm ²
Torque rating [N m]	3
Remote indication conductor cross section [mm ²]	0.5 ... 1.5
Remote indication switching capacity [V/A]	AC: 250/0.5 DC: 30/1

DIMENSIONS AND WEIGHT



Net Weight [kg]	0.119
Gross weight [kg]	0.129
Packaging dimensions (H x W x L) [mm]	97 × 22 × 118

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

K2-N(Neutral)	44020000
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Surge-Trap® K - K2 2P

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	2+0
No. Poles	2-Pole
No. DIN rail modules	2
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
K2-2PXXX	44020202	44020210	44020218
K2-2PXXX-M (with Microswitch)	44020203	44020211	44020219

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

K2-2PXXX, K2-2PXXX-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- Iscrr [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

K2-2PXXX, K2-2PXXX-M (with Microswitch)	275	320	440
Nominal discharge current (8/20) - In [kA]		20	
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-N) [V]	1800	2000	2500
Voltage protection rating - VPR (L-G) [V]	1000	1200	1500
Voltage protection rating - VPR (N-G) [V]	1000	1200	1500

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Surge-Trap[®] K - K2 2P

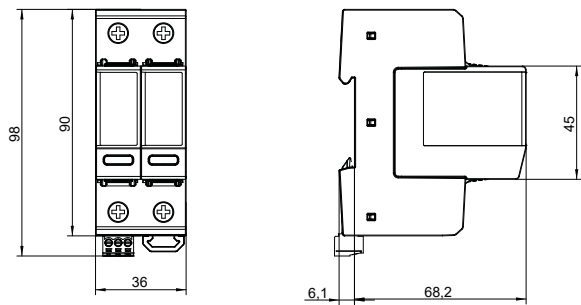
Power Line SPDs
DIN RAIL - IEC TYPE 2

Continue K2-2PXXX, K2-2PXXX-M (with Microswitch)

K2-2PXXX, K2-2PXXX-M (with Microswitch)	275	320	440
Short-Circuit Current Rating-SCCR [kA]	85	100	42

MECHANICAL AND ENVIRONMENTAL FEATURES			
K2-2PXXX, K2-2PXXX-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



K2-2PXXX K2-2PXXX-M (with Microswitch)	275	320	440
Net Weight [kg]	0.242	0.232	0.264
Gross weight [kg]	0.267	0.256	0.292
Packaging dimensions (H x W x L) [mm]	97 × 38 × 118		

INTERNAL CONFIGURATION

The diagram illustrates the internal wiring of the K2-2P surge protector. It features two main vertical sections, one for the Line (L) and one for the Neutral (N). Each section contains a surge protector (represented by a diagonal line) and a microswitch (represented by a switch symbol). The terminals are labeled 12, 11, and 14 on the left. Ground symbols are shown at the bottom of each column.

REPLACEMENT CARTRIDGES

K2-2PXXX

K2-2PXXX-M

(with Microswitch)

275

320

440

K2-XXX (Line)

44020001

44020003

44020005

REPLACEMENT CARTRIDGES			
K2-2PXXX K2-2PXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005

DATASHEET

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		

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Surge-Trap® K - K2 2PG

Power Line SPDs

DIN RAIL - IEC TYPE 2

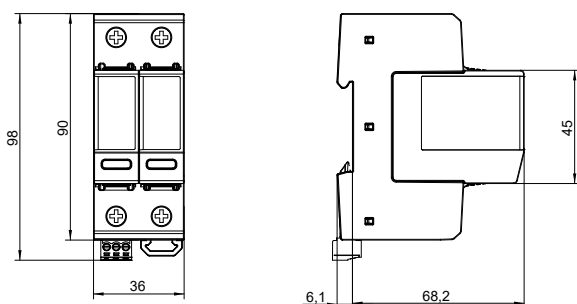
SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

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

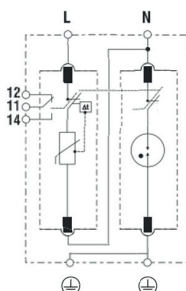
K2-2PGXXX, K2-2PGXXX-M (with Microswitch)	275	320	440
Temperature range [°C]		-40 ... 85	
Humidity range [%]		5 ... 95	
Max. Altitude [m]		4000	
Indication System Type		Green (OK) / Not green (replace)	
Insulating material		PA6 CT1 & PA66 CT1	
Housing color		Grey RAL 7035	
Enclosure - IP		IP20	
Flammability 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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Surge-Trap® K - K2 3P

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	3+0
No. Poles	3-Pole
No. DIN rail modules	3
Network configuration	TNC
IEC SPD Type	Class II
EN SPD Type	Type 2
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Protection Modes	L-PE(N)
Product standards	*IEC 61643-11 *EN 61643-11 *UL 1449 5th Edition



PART NUMBERS

XXX	275	320	440
K2-3PXXX	44020300	44020304	44020308
K2-3PXXX-M (with Microswitch)	44020301	44020305	44020309

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

K2-3PXXX, K2-3PXXX-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 [kV]	≤1,5		≤2
Maximum back-up fuse [A [gG]]	315		
Short circuit withstand- Iscrr [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

K2-3PXXX, K2-3PXXX-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-G) [V]	275	320	440
Voltage protection rating - VPR (L-L) [V]	1800	2000	2500
Voltage protection rating - VPR (L-G) [V]	1000	1200	1500
Short-Circuit Current Rating-SCCR [kA]	85	100	42

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Surge-Trap® K - K2 3P

Power Line SPDs
DIN RAIL - IEC TYPE 2

MECHANICAL AND ENVIRONMENTAL FEATURES			
K2-3PXXX, K2-3PXXX-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

K2-3PXXX
K2-3PXXX-M
(with Microswitch)

275

320

440

Net Weight [kg]

0.39

0.348

0.405

Gross weight [kg]

0.425

0.369

0.446

Packaging dimensions (H x W x L) [mm]

97 × 59 × 118

INTERNAL CONFIGURATION

REPLACEMENT CARTRIDGES

K2-3PXXX			
K2-3PXXX-M (with Microswitch)	275	320	440
K2-XXX (Line)	44020001	44020003	44020005

DATASHEET

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

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Surge-Trap[®] K - K2 4P

Power Line SPDs
DIN RAIL - IEC TYPE 2

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

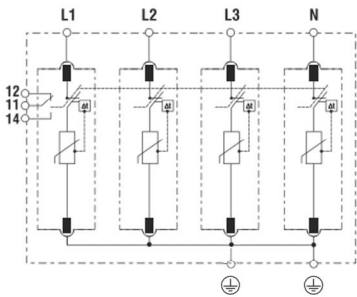
K2-4PXXX, K2-4PXXX-M (with Microswitch)	275	320	440
Voltage protection rating - VPR (L-G) [V]	1000	1200	1500
Voltage protection rating - VPR (N-G) [V]	1000	1200	1500
Short-Circuit Current Rating-SCCR [kA]	85	100	42

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

Technical drawings of the K2-4PXXX-M surge protector. The front view shows a 3-phase unit with 4 poles, dimensions 98mm total height, 90mm mounting height, 72mm width, and 6.1mm terminal spacing. The side view shows a depth of 68.2mm and a mounting bracket height of 45mm.

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

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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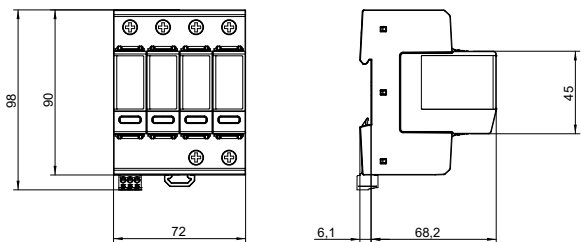
Surge-Trap® K - K2 4PG

Power Line SPDs
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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