

K1H-2PG255LF-M

44120239



Surge protection device Type 1+2, Iimp 25 kA, Uc 255 Vac, 1+1 for 230V TT, TNS systems, Leakage current free, with Microswitch

GENERAL DATA

Internal configuration	1+1
No. Poles	2-Pole
No. DIN rail modules	2
Network configuration	TT, TNS
IEC SPD Type	Class I+II
EN SPD Type	Type 1+2
Format	Monobloc
Protection Modes	L-N / N-PE
Leakage current free - LCF	Yes
Product standards	*EN IEC 61643-11



SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

Maximum continuous operating voltage (AC) - Uc (L-N) [V]	255
Maximum continuous operating voltage (AC) - Uc (N-PE) [V]	255
Nominal voltage AC 50-60 Hz - Un [V]	230
Nominal discharge current (8/20)- In [kA]	25
Nominal discharge current (8/20) - In (L-N) [kA]	25
Nominal discharge current (8/20) - In (N-PE) [kA]	50
Lightning impulse current (10/350) - Iimp [kA]	25
Lightning impulse current (10/350) - Iimp (L-N) [kA]	25
Lightning impulse current (10/350) - Iimp (N-PE) [kA]	50
Voltage protection level at In - Up (L-N) [kV]	≤1,5
Voltage protection level at In - Up (N-PE) [kV]	≤1,5
Maximum back-up fuse [A [gG]]	250
Short circuit withstand- Isccr [kA]	25
Following current - Ifi [A]	100
Response time - tA [ns]	<100
Specific energy by pole (10/350 μs) - W/R (L-N) [kJ/Ohm]	156
Specific energy by pole (10/350 μs) - W/R (N-PE) [kJ/Ohm]	625
TOV 120min (LV systems, fail safe)- Ut(L-N) [V]	440
TOV 200 ms (HV Systems, withstand) - Ut (N-PE) [V]	1200
Dynamic thermal disconnection	Yes
No. of ports	1

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), Microswitch
Insulating material	PA66 CT1

DATASHEET

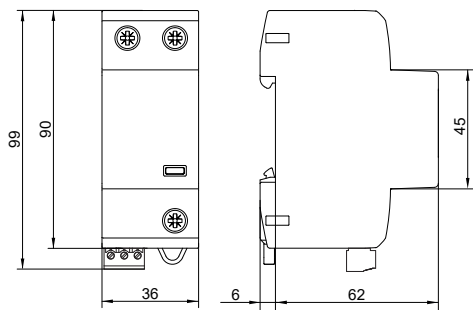
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Continue MECHANICAL AND ENVIRONMENTAL FEATURES

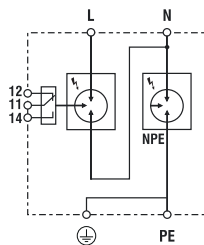
Housing color	Grey RAL 7035
Enclosure - IP	IP20
Flammability class	UL94 V-0
Solid conductor cross section	10...35mm²
Stranded conductor cross section	10...25mm²
Torque rating [N m]	4
Remote indication conductor cross section [mm²]	1.5 ... 1.5
Remote indication switching capacity [V/A]	AC: 250/0.5 DC: 125/0.2
Remote Indication Torque [N m]	0.2

DIMENSIONS AND WEIGHT



Net Weight [kg]	0.246
Gross weight [kg]	0.266
Packaging dimensions (H x W x L) [mm]	118 × 38 × 97

INTERNAL CONFIGURATION



K1H-3P255LF-M

44120343



Surge protection device Type 1+2, Iimp 25 kA, Uc 255 Vac, 3+0 for 230/400V TNC systems, Leakage current free, with Microswitch

GENERAL DATA	
Internal configuration	3+0
No. Poles	3-Pole
No. DIN rail modules	4
Network configuration	TNC
IEC SPD Type	Class I+II
EN SPD Type	Type 1+2
Format	Monobloc
Protection Modes	L-PE(N)
Leakage current free - LCF	Yes
Product standards	*EN IEC 61643-11



SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

Maximum continuous operating voltage (AC) - Uc [V]	255
Nominal voltage AC 50-60 Hz - Un [V]	230/400
Nominal discharge current (8/20)- In [kA]	25
Lightning impulse current (10/350) - Iimp [kA]	25
Voltage protection level at In - Up [kV]	≤1,5
Maximum back-up fuse [A [gG]]	250
Short circuit withstand- Isccr [kA]	25
Following current - Ifi [A]	25
Residual current- Ipe [μA]	<10
Response time - tA [ns]	≤25
Specific energy by pole (10/350 μs) - W/R (L-N) [kJ/Ohm]	156
TOV 120min (LV systems, fail safe)- Ut [V]	440
Dynamic thermal disconnection	Yes
No. of ports	1

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), Microswitch
Insulating material	PA66 CT1
Housing color	Grey RAL 7035
Enclosure - IP	IP20
Flammability class	UL94 V-0
Solid conductor cross section	10...35mm²
Stranded conductor cross section	10...25mm²
Torque rating [N m]	4
Remote indication conductor cross section [mm²]	1.5 ... 1.5

DATASHEET

Power Line SPDs

K1H-3P255LF-M

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Continue MECHANICAL AND ENVIRONMENTAL FEATURES

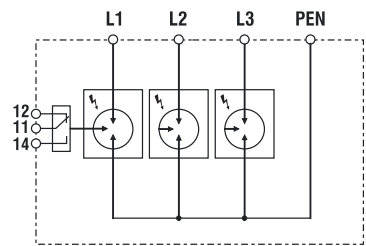
Remote indication switching capacity [V/A]	AC: 250/0.5 DC: 125/0.2
Remote Indication Torque [N m]	0.2

DIMENSIONS AND WEIGHT

The drawing shows the front and side views of the SPD. The front view has a height of 90 mm and a width of 72 mm. The side view shows a depth of 62 mm and a mounting flange height of 45 mm. There are four circular indicators on the top of the front panel.

Net Weight [kg]	0.469
Gross weight [kg]	0.489
Packaging dimensions (H x W x L) [mm]	118 × 78 × 97

INTERNAL CONFIGURATION



K1H-4PG255LF-M

44120451



Surge protection device Type 1+2, Iimp 25 kA, Uc 255 Vac, 3+1 for 230/400V TT, TNS systems, Leakage current free, with Microswitch

GENERAL DATA	
Internal configuration	3+1
No. Poles	4-Pole
No. DIN rail modules	4
Network configuration	TT, TNS
IEC SPD Type	Class I+II
EN SPD Type	Type 1+2
Format	Monobloc
Protection Modes	L-N / N-PE
Leakage current free - LCF	Yes
Product standards	*EN IEC 61643-11



SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

Maximum continuous operating voltage (AC) - Uc (L-N) [V]	255
Maximum continuous operating voltage (AC) - Uc (N-PE) [V]	255
Nominal voltage AC 50-60 Hz - Un [V]	230/400
Nominal discharge current (8/20)- In [kA]	25
Nominal discharge current (8/20) - In (L-N) [kA]	25
Nominal discharge current (8/20) - In (N-PE) [kA]	100
Lightning impulse current (10/350) - Iimp [kA]	25
Lightning impulse current (10/350) - Iimp (L-N) [kA]	25
Lightning impulse current (10/350) - Iimp (N-PE) [kA]	100
Voltage protection level at In - Up (L-N) [kV]	≤1,5
Voltage protection level at In - Up (L-PE) [kV]	≤1,8
Voltage protection level at In - Up (N-PE) [kV]	≤1,5
Maximum back-up fuse [A [gG]]	250
Short circuit withstand- Iscrr [kA]	25
Following current - Ifi [A]	100
Residual current- Ipe [μA]	<10
Response time - tA [ns]	<100
Specific energy by pole (10/350 μs) - W/R (L-N) [kJ/Ohm]	156
Specific energy by pole (10/350 μs) - W/R (N-PE) [kJ/Ohm]	2500
TOV 120min (LV systems, fail safe)- Ut(L-N) [V]	440
TOV 200 ms (HV Systems, withstand) - Ut (N-PE) [V]	1200
Dynamic thermal disconnection	Yes
No. of ports	1

MECHANICAL AND ENVIRONMENTAL FEATURES

Temperature range [°C]	-40 ... 85
Humidity range [%]	5 ... 95
Max. Altitude [m]	4000

DATASHEET



Power Line SPDs

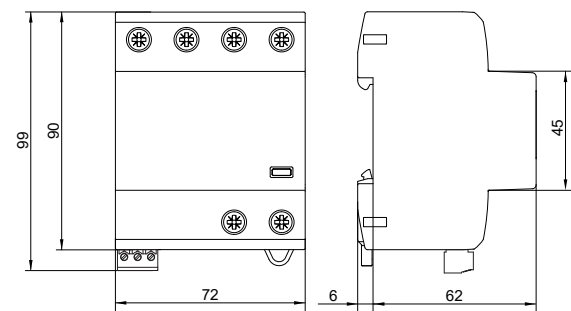
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Continue MECHANICAL AND ENVIRONMENTAL FEATURES

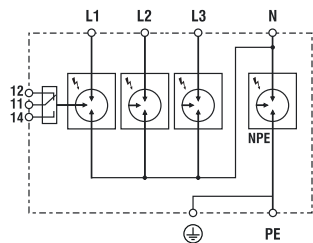
Indication System Type	Green (OK) / Not green (replace), Microswitch
Insulating material	PA66 CT1
Housing color	Grey RAL 7035
Enclosure - IP	IP20
Flammability class	UL94 V-0
Solid conductor cross section	10...35mm ²
Stranded conductor cross section	10...25mm ²
Torque rating [N m]	4
Remote indication conductor cross section [mm ²]	1.5 ... 1.5
Remote indication switching capacity [V/A]	AC: 250/0.5 DC: 125/0.2
Remote Indication Torque [N m]	0.2

DIMENSIONS AND WEIGHT



Net Weight [kg]	0.469
Gross weight [kg]	0.489
Packaging dimensions (H x W x L) [mm]	118 × 78 × 97

INTERNAL CONFIGURATION



DATASHEET