

EGARA 1 3+1

Power Line SPDs

DIN RAIL - IEC TYPE 1+2



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
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Protection Modes	L-N / N-PE
Product standards	IEC/EN 61643-11; UL 1449 5th Edition



PART NUMBERS

XXX	275	320
EGA 1 XXX/3+1	33738400	33738408
EGA 1 XXX/3+1 IR (with Remote Indication)	33738401	33738409

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

EGA 1 XXX/3+1, EGA 1 XXX/3+1 IR (with Remote Indication)	275	320
Maximum continuous operating voltage (AC) - Uc (L-N) [V]	275	320
Maximum continuous operating voltage (AC) - Uc (N-PE) [V]		255
Nominal voltage AC 50-60 Hz - Un [V]	230/400	277/480
Nominal discharge current (8/20) - In (L-N) [kA]		20
Nominal discharge current (8/20) - In (N-PE) [kA]		50
Max Discharge Current (8/20) - I _{max} (L-N) [kA]		50
Max Discharge Current (8/20) - I _{max} (N-PE) [kA]		100
Lightning impulse current (10/350) - I _{imp} (L-N) [kA]		12.5
Lightning impulse current (10/350) - I _{imp} (N-PE) [kA]		50
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]]		315
Short circuit withstand- I _{sc} [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
Specific energy by pole (10/350 μs) - W/R (L-N) [kJ/ohm]		39
Specific energy by pole (10/350 μs) - W/R (N-PE) [kJ/ohm]		625
TOV 5s (LV systems, withstand)- Ut(L-N) [V]	337	403
TOV 120min (LV systems, fail safe)- Ut(L-N) [V]	442.5	528
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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ADDITIONAL TESTING - TECHNICAL FEATURES

EGA 1 XXX /3+1, EGA 1 XXX /3+1 IR (with Remote Indication)	275	320
Max Discharge Current (8/20) - I _{max} (L-N)	65 kA	

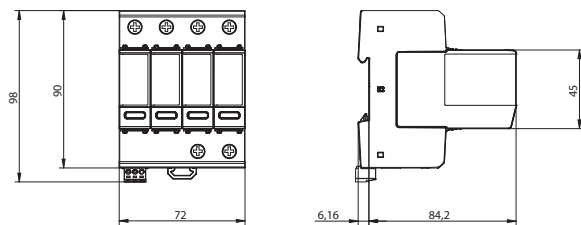
SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

EGA 1 XXX /3+1, EGA 1 XXX /3+1 IR (with Remote Indication)	275	320
Nominal discharge current (8/20) - I _n [kA]	20	
Maximum continuous operating voltage - MCOV (L-L) [V]	550	640
Maximum continuous operating voltage - MCOV (L-N) [V]	275	320
Maximum continuous operating voltage - MCOV (L-G) [V]	275	320
Maximum continuous operating voltage - MCOV (N-G) [V]	305	
Voltage protection rating - VPR (L-L) [V]	2000	
Voltage protection rating - VPR (L-N) [V]	1200	
Voltage protection rating - VPR (L-G) [V]	1500	
Voltage protection rating - VPR (N-G) [V]	1000	
Short-Circuit Current Rating-SCCR [kA]	42	

MECHANICAL AND ENVIRONMENTAL FEATURES

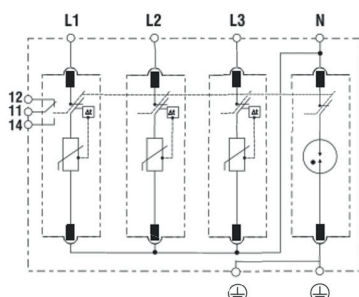
EGA 1 XXX /3+1, EGA 1 XXX /3+1 IR (with Remote Indication)	275	320
Temperature range [°C]	-40 ... 85	
Humidity range [%]	5 ... 95	
Max. Altitude [m]	4000	
Indication System Type	Green (OK) / Not green (replace)	
Insulating material	PA6 CT1 & PA66 CT1	
Housing color	Grey RAL 7035	
Enclosure - IP	IP20	
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



EGA 1 XXX /3+1 EGA 1 XXX /3+1 IR (with Remote Indication)	275	320
Net Weight [kg]	0.614	0.627
Gross weight [kg]	0.658	0.655
Packaging dimensions (H x W x L) [mm]	97 x 78 x 118	

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

EGA 1 XXX /3+1 EGA 1 XXX /3+1 IR (with Remote Indication)	275	320
EGARA 1 XXX (Line)	33738001	33738003
EGARA1N(Neutral)	33738000	