



# LY1-C40/4(S)

## Pluggable Multi-Pole SPD



Class II • Type 2 • Type 1CA

Location of Use: Sub-Distribution Boards  
 Mode of Protection: L-PE, N-PE  
 Surge Ratings:  $I_n = 20 \text{ kA}$  (8/20  $\mu\text{s}$ )  
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA  
 Protective Elements: High Energy MOV  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

### Technical Data

IEC Electrical		150	275	320	385	440
Nominal AC Voltage (50/60Hz)	$U_o / U_n$	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	$U_c$	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	40 kA	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	$U_p$	1 kV	1.5 kV	1.6 kV	1.8 kV	2 kV
Impulse Current (10/350 $\mu\text{s}$ ) $I_{imp}$ (L-N)				7kA		
Response Time	$t_A$			< 25 ns		
Back-Up Fuse (max)				125 A gL / gG		
Short-Circuit Current Rating (AC)	$I_{SCCR}$			25 kA / 50 kA		
TOV Withstand 5s	$U_T$	180V	335V	335V	335V	580V
TOV 120min	$U_T$	230V	440V	440V	440V	765V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
<b>Mechanical &amp; Environmental</b>						
Operating Temperature Range	$T_a$	-40°F to +158°F [-40°C to +70°C]				
Permissible Operating Humidity	RH	5%...95%				
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m.....2000 m				
Terminal Screw Torque	$M_{max}$	39.9 lbf·in [4.5 Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green ok / Red defect				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V / 0.5 A; DC: 250V / 0.1 A; 125V / 0.2 A; 75V / 0.5 A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm <sup>2</sup> (Solid)				