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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surge Protection Made Simple™ for Wind Power Applications

IEC Class I Coordinated Lightning Current Arresters with High Follow Current for 400-690 Volt, TNC, TNS & IT Systems



Description

The Cooper Bussmann® IEC Class I 400 and 690 Volt, one-pole lightning current arresters feature local, *easyID*™ visual indication and optional remote contact signaling.

440V and 760V maximum continuous operating voltage arresters protect installations against surges and direct lightning strikes.

System & Application

TNC 400V/690V: 3x BSPS1400WE(R)

TNS 400/690V: 4x BSPS1400WE(R)

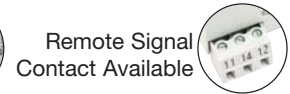
IT 690V: 3x BSPS1690WER

Remote Signaling Contact

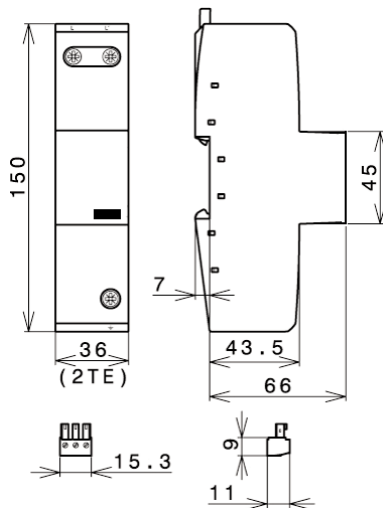
The three-pole terminal remote signaling contact versions have a floating changeover contact for use as a break or make contact, according to circuit concept.



BSPS1400WE(R)
BSPS1690WER

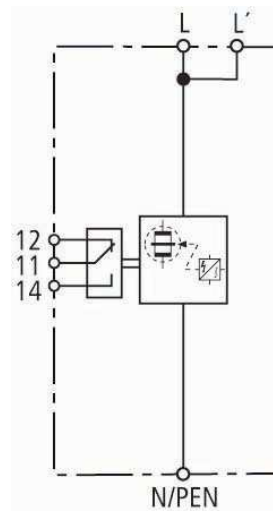


Dimensions - mm



Shown with optional remote contact signaling

Circuit Diagrams - Shown with optional remote contact signaling



- Creepage Discharge Spark Gap
- Spark Gap Trigger

BSPS1400WE(R)
BSPS1690WER

Ordering Information		
System Voltage/Poles	400V/1	690V/1
Max Continuous Operating AC Voltage (MCOV) [U _C]	440V	760V
Catalogue Numbers	Without Remote Signaling	BSPS1400WE
	With Remote Signaling	BSPS1400WER
Specifications		
Line System Type	TNC, TNS, IT	TNC, TNS, IT
Lightning Impulse Current (10/350μs) [I _{imp}]	35kA	25kA
Specific Energy [W/R]	306.25kJ/ohms	156.25kJ/ohms
Nominal Discharge Current (8/20μs) [I _n]	35kA	25kA
Voltage Protection Level [U _p]	≤2.5kV	≤4kV
Follow Current Extinguishing Capability AC [I _{fi}]	50kA _{rms}	25kA _{rms}
Follow Current Limitation/Selectivity	no tripping of 32A gL/gG fuse up to 50kA _{rms} (prosp.)	no tripping of 32A gL/gG fuse up to 25kA _{rms} (prosp.)
Response Time [t _A]	≤100ns	≤100ns
Max. backup fuse (L) up to I _K = 25kA _{rms} (t _a ≤ 5s)	--	250A gL/gG
Max. Backup Fuse (L) up to I _K > 25kA _{rms}	--	100A gL/gG
Max. Backup Fuse (L) up to I _K = 50kA _{rms} (t _a ≤ 0.2 s)	500A gL/gG	--
Max. Backup Fuse (L) up to I _K = 50kA _{rms} (t _a ≤ 5 s)	250A gL/gG	--
Max. Backup Fuse (L) for I _K > 50kA _{rms}	160A gL/gG	--
Max. Backup Fuse (L-L)	125A gL/gG	125A gL/gG
Short-Circuit Withstand Capability for Max. Mains-Side Overcurrent Protection	50kA _{rms}	25kA _{rms}
Temporary Overvoltage (TOV) [U _T]	690V / 5sec	1000V / 5 sec
Cross-Sectional Area (L, L', $\frac{1}{2}$) [min.]	--	100mm ² solid/flexible
Cross-Sectional Area (L, L', N/PEN) [min.]	100mm ² solid/flexible	--
Cross-Sectional Area (L, N/PEN) [max.]	50mm ² /1AWG stranded/35mm ² /2AWG flexible	--
Cross-Sectional Area (L, $\frac{1}{2}$) [max.]	--	50mm ² /1AWG stranded/35mm ² /2AWG flexible
Cross-Sectional Area (L) [max.]	50mm ² /1AWG stranded/35mm ² /4AWG flexible	50mm ² /1AWG stranded/35mm ² /4AWG flexible
SPD According to EN 61643-11	Type 1	
SPD According to IEC 61643-1	Class I	
TOV Characteristics	Withstand	
Operating Temperature Range (parallel connection) [T _{UP}]	-40°C to +80°C	
Operating Temperature Range (series connection) [T _{US}]	-40°C to +60°C	
Operating State/Fault Indication	Green (good) / Red (replace)	
Number of Ports	1	
Mounting	35mm DIN rail per EN 60715	
Enclosure Material	Thermoplastic, UL94V0	
Place of Installation	Indoor	
Degree of Protection	IP20	
Capacity	2 Mods., DIN 43880	
Product Warranty	Five Years*	
Remote Contact Signaling		
Remote Contact Signaling Type	Changeover Contact	
AC Switching Capacity (Volts/Amps)	250V/0.5A	
DC Switching Capacity (Volts/Amps)	250V/0.1A; 125V/0.2A; 75V/0.5A	
Conductor Ratings and Cross-Sectional Area for Remote Contact Signal Terminals	60/75°C Max. 1.5mm ² / 14AWG Solid/Flexible	
Ordering Information	Order from Catalogue Number Above	

Recommended Cooper Bussmann NH DIN Size Back Up Fuse Links	
Size	NH Fuse Part Number
000	100NHG000B-690 (max L) up to I _K > 25kA _{rms}
00	125NHG00B-690 (max L-L')
01	160NHG01B-690 (max L) for I _K > 50kA _{rms}
02	250NHG02B-690 (max L) up to I _K = 25kA _{rms} (t _a ≤ 5 s)
02	250NHG02B-690 (max L) up to I _K = 50kA _{rms} (t _a ≤ 5 s)
3	500NHG3B-690 (max L) up to I _K = 50kA _{rms} (t _a ≤ 0.2 s)

* See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at www.cooperbussmann.com/surge