

JSP 400



SYSTEM FEATURES AND BENEFITS

- **Listed to UL 1449 3rd Edition** for Type 1 and Type 2 SPD applications.
- **Fail-Safe Design** with individually fused MOV's eliminates single point failure protecting against both over-current and over-voltage events.
- **200 KAIC Short Circuit Rating** permits direct buss connection to most electrical services.
- **Low Let Through Voltage** ensured by the lowest possible impedance path to ground and equal current sharing during surge events.
- **Extended Durability** and proven to exceed 6,500 surges of 10,000 amps/mode using the ANSI/IEEE C62.41.1 2000 and IEC 61643 test procedures.
- **Compact Design** provides superior surge protection in a 14"H x 12"H x 6"D housing.
- **All Weather** sealed, powder-coated NEMA 4/IP65 housing is designed for indoor/outdoor applications.
- **10-Year Standard Warranty** with optional 15-year extended warranty.

MODEL NUMBER SCHEME

Available Configurations

Model Number	Voltage	Configuration
JSP400-1P120	120V	Single Phase 2-wire + grd
JSP400-1P240	240V	Single Phase 2-wire + grd
JSP400-1S240	120/240V	Split-Phase 3-wire + grd
JSP400-3Y208	120/208V	Three-Phase WYE, 4-wire + grd
JSP400-3Y380	220/380V	Three-Phase WYE, 4-wire + grd
JSP400-3Y415	240/415V	Three-Phase WYE, 4-wire + grd
JSP400-3Y480	277/480V	Three-Phase WYE, 4-wire + grd
JSP400-3Y600	347/600V	Three-Phase WYE, 4-wire + grd
JSP400-3H240	120/240V	Three-Phase High-Leg 4-wire + grd
JSP400-3D240	240V	Three-Phase DELTA, 3-wire + grd
JSP400-3D380	380V	Three-Phase DELTA, 3-wire + grd
JSP400-3D480	480V	Three-Phase DELTA, 3-wire + grd
JSP400-3D600	600V	Three-Phase DELTA, 3-wire + grd

Units suitable for TT and IT grounded power systems available upon request. Consult factory for model number.

Available Options

Transient Filter that meets UL 1283*:	add suffix "F"
Surge Counter:	add suffix "B"
Stainless Steel Enclosure:	add suffix "S"

**Not recommended when using telecommunication rectifiers*

EMI/RFI Filter Attenuation – Mil Standard 220B

Max. Attenuation Freq.
41 dB @ 106kHz

PRODUCT SPECIFICATIONS

General Specifications

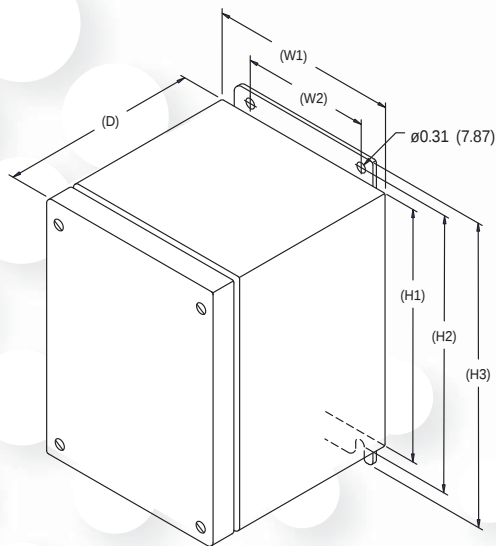
Maximum Surge Current Capacity:	400kA per phase; 200kA per mode
Nominal Discharge Surge Current In:	20kA
Repetitive Surge Current Rating:	6,500 impulses 10,000 amps/mode using the ANSI/IEEE C62.41.1 2000 and IEC 61643 test procedures
Product Design:	Parallel design with individual fused MOVs and optional UL 1283 listed EMI/RFI filter
Regulatory Listing:	UL 1449 3 rd Edition Type 1 and Type 2 SPD; UL 1283
Warranty:	10-Year Standard, 15-Year Extended

Electrical Specifications

Operating Frequency:	47-63 Hz
Connection Method:	Parallel to electrical distribution system
Modes of Protection:	L-N, L-G, N-G, & L-L
Fault Rating (SCCR):	200kAIC – no upstream over-current protection device (breaker or fuse) required
Response Time:	Less than 0.5 nanoseconds
Standard Monitoring:	Status indicator lights (one per phase) Dual remote relay contacts – normal open and normal close. Relay contacts are rated 150VDC/125 VAC with maximum switching power of 30WDC/60VA AC. Audible Alarm with Silence Button
Optional Monitoring:	8-digit surge counter provides maximum surge count capability



JSP 400

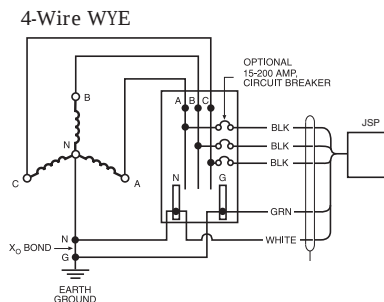


Dimensional Specifications

Dim	JSP 400
H1	14.00 (355.6)
H2	14.75 (374.7)
H3	15.50 (393.7)
W1	12.00 (304.8)
W2	10.00 (254.0)
D	6.20 (157.5)

All measurements in inches (mm)

Typical 3-Phase Installation



Mechanical Specifications

Enclosure Type:	Powder coated, impact-resistance steel, weather-proof NEMA 4
Installation Location:	Indoor or outdoor
Dimensions:	14"H x 12"W x 6"D (355.6 x 304.8 x 157.5)
Connection Method:	Hard-wired via internal lugs #10AWG - #3 AWG (5.27mm ² -26.7mm ²)
Mounting Method:	Dual mounting flanges
Operating Environment:	-40° C to +70° C (-40° F to +158° F) 5% - 95% non-condensing humidity
Altitude:	Up to 13,000 ft. (4000m)
Weight:	40 lbs. (18.2 kg)

JSP 400 Performance Data

ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002

Measured Limiting Voltage

Model Number	Voltage Configuration	Protection Mode	MCOV	B3 Ring Wave 6kV, 500A	B3/C1 Combo Wave 6kV, 3kA	C3 Combo Wave 20kV, 10kA	UL 1449 3rd Ed. 6kV 3000A VPR
JSP400-1P120	1P120	L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
		N-G	150V	512V	568V	1090V	800V
JSP400-1P240	1P240	L-N	320V	427V	828V	1170V	1200V
		L-G	320V	944V	996V	1540V	1200V
		N-G	320V	848V	899V	1500V	1200V
JSP400-1S240	1S240	L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
		L-L	300V	576V	864V	1267V	1200V
JSP400-3Y208	3Y208	N-G	150V	512V	568V	1090V	800V
		L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
JSP400-3Y380	3Y380	L-L	300V	576V	864V	1267V	1200V
		N-G	150V	512V	568V	1090V	800V
		L-N	320V	427V	828V	1170V	1200V
JSP400-3Y415	3Y415	L-G	320V	944V	996V	1540V	1200V
		L-L	640V	555V	1497V	1950V	1800V
		N-G	320V	848V	899V	1500V	1200V
JSP400-3Y480	3Y480	L-N	320V	427V	828V	1170V	1200V
		L-G	320V	944V	996V	1540V	1200V
		L-L	640V	555V	1497V	1950V	1800V
JSP400-3Y600	3Y600	N-G	320V	848V	899V	1500V	1200V
		L-N	420V	715V	1250V	1910V	1500V
		L-G	420V	829V	1340V	1960V	1500V
JSP400-3H240	3H240	L-L	840V	1130V	2300V	2910V	2500V
		N-G	420V	670V	1230V	1880V	1500V
		L-N	150V	464V	502V	907V	800V
JSP400-3D240	3D240	H-N	320V	427V	828V	1170V	1200V
		L-G	150V	672V	627V	1173V	800V
		H-G	320V	944V	996V	1540V	1200V
JSP400-3D380	3D380	L-L	320V	576V	864V	1267V	1200V
		H-L	470V	980V	1250V	1640V	1500V
		N-G	150V	512V	568V	1090V	800V
JSP400-3D480	3D480	L-G	320V	750V	940V	1650V	1200V
		L-L	320V	630V	1020V	1680V	1200V
JSP400-3D600	3D600	L-G	550V	1050V	1450V	2160V	1800V
		L-L	550V	860V	1670V	2470V	1800V
		L-G	550V	1050V	1450V	2160V	1800V
JSP400-3D600	3D600	L-L	550V	860V	1670V	2470V	1800V
		L-G	750V	1245V	1960V	2760V	2500V
		N-G	750V	1060V	2260V	2960V	2500V

All JSP™ systems measured limited voltages are peak values (±10%) measured from the zero reference point and are in compliance with test and evaluation procedures outlined in NEMA LS1-1992 (R2000), paragraphs 2.210 and 3.10.

Specifications subject to change without notice, refer to www.joslynsurge.com for latest revision.

Distributed by:

