Surge Protection For Business-Critical Continuity

PowerSure[®] DRS Series—Type 2 Modular Surge Protective Device



Specifications

PowerSure [®] DRS Series–Type 2			
Nominal Discharge Current (8x20µs)	۱ _n	20kA	
Maximum Discharge Current (8x20µs)	I _{max}	40kA	
Nominal Voltage	U _n	120, 230, 240, 277, 346, 480, 600 volts	
Maximum Continuous Operating Voltage	U _c	150, 320, 380, 420, 580, 680, 1000 volts	
Voltage Protection Level	Up	1.2 kV, 1.6 kV, 1.8 kV, 2.0 kV, 2.4 kV	
Response Time	T _s	25ns	
Relative Humidity		95%	
Insulation Resistance		>10 ³ M Ω	
Temperature Range		-40°C to +85°C	
Degree of Protection		IP20	
Housing		ABS / PA UL94V0	
Warranty		5 years	

The DRS Type 2 Series Surge Protective Device (SPD) is designed to be easily installed in power and control panels using standard DIN-rail mounting brackets. This series of product offers 40,000 amps of both normal and common mode surge protection. The DRS series is available in single phase, split phase, three phase (3 wires) and three phase (4 wires) configurations.

Replaceable modules allow for easy maintenance and mount directly into the DRS base assembly, simplifying the replacement process. The status of the surge protector modules can be monitored through the indicator lenses or remotely through the alarm terminals.

Standard Features:

- Effectively handle high-energy transients on type TT, TN-C, TN-S, and TN-C-S power systems
- SPC rated Type 2 in accordance with EN 61643-11; Class I & II in accordance with IEC 61643-1
- Built-in thermal components disconnect
 SPD from the power source to avoid thermal runaway conditions
- Visual inspection windows on each module provide continuous status indication
- Three position terminals provide remote status monitoring capability
- DIN-rail mounting and plug-in module design allow for easy installation and maintenance
- Gas tube module option for type TT grounding systems
- 5 year warranty



How to Specify the Appropriate Model

Example:	DRS	120	3	1	Q
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DRS	Nominal Voltage (U _n) (XXX)	# of Metal Oxide Varistor Modules* (X)	# of Gas Tube Modules** (X)	Higher Rated Voltage*** (Optional)
	120	0	0	Q
	230	1	1	
	240	2		
	277	3		
	346	4		
	480			
	600			

* MOV modules are typically one module per phase and may be wired L-N, L-G or N-G.

- * * Gas tube modules typically used in the N-G mode for type TT grounding systems.
- * * * Certain applications require higher rated components in order to survive frequent voltage rises. In this case, order a unit with a "Q" at the end of the part number.

Replacement modules available: Order DRS + Un + M (for MOV) or G (for Gas tube)

Headquarters

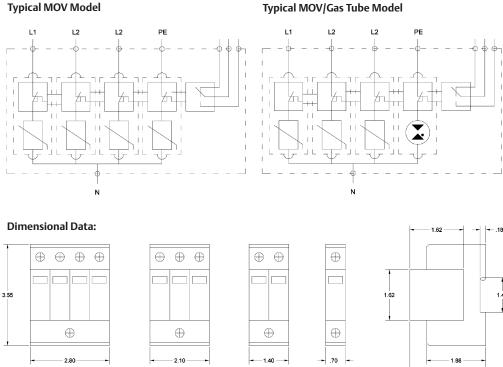
Surge Protection 328 Water Street Binghamton, NY 13901 T: 607-724-2484 T: 800-288-6169 F: 607-722-8713

1805 N.E. 19th Avenue Ocala, FL 34470 T: 352-732-3029 T: 800-648-4076 F: 352-867-1237

23123 E. Mission Ave. Liberty Lake, WA 99019 T: 509-777-2300 T: 800-953-3701 F: 509-927-0435

Technical Support

800 288 6169 Toll-Free 607 724 2484 Phone 607 722 8713 Fax



Mounting: Symetrical rail EN50022/DIN 46277-3 I/O Connections: By screw terminal 4-25mm² by connection bus

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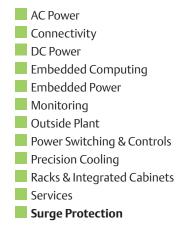
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44	Technical S	pecification	CONTROL CONCEPTS A Subsidiary of the Liebert Corporation		
EMERSON™ Network Power	DRS1	2020			
	L1 PE		L1 L2		
Electrical Characte	eristics				
System Voltages		120V Single Pha	use (L, N, & G)		
Type of Network		TT-TN			
Modes of Protection		L-N & N-PE			
Modes of Protection		(x2) MOV Modu	iles		
Nominal Voltage		U _n	120V		
Rated Voltage (MCOV)		U _c	150V		
Nominal Discharge Curr	rent (8 x 20µs)	I _n	20kA		
Maximum Discharge Cu	rrent	Imax	40kA		
Voltage Protection Level		Up	1.2 kV		
Response Time		T _s	25 ns		
Relative Humidity			95%		
Isolation Resistance		R _{isol}	$>10^3 M\Omega$		
Test Standards					
EN 61643-11		Type 2			
IEC 61643-1:1998-02		Class I & II			
Mechanical Charac	teristics				
Dimensions (mm)		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
I/O Connections		By Screw Terminal: 4-25mm ² By Connection Bus			
MOV Encapsulation Ma	erial Epoxy Resin				
Disconnection Indicator		Mechanical Indicator			
Status Monitoring		Remote Alarm Terminals			
Mounting		Symmetrical Rail (EN50022/DIN46277-3)			
Operation Temperature	Range	-40°C ~ +85°C			
Degree of Protection	IP20				
Disconnection Device			hermal Cutoff System		
Housing Material		ABS / PA UL94	V0		