IMSDM600 Series SPD

AC POWER PANEL SURGE PROTECTIVE DEVICE



Product Features

- UL 1449 5th Edition
- UL Type 1/Type 2 (SPD)
- Real Time Diagnostics
- Optional Integrated Disconnect
- Itotal 8/20 µs: 600 kA
- Itotal 10/350 µs: 44 kA
- Pluggable module for each mode

IMSDM600x-yyyy-z

- Optional Features
- Suffix *(see table)*
  - " " Basic: Full Diagnostic, with visual indicator
  - "S" Standard: Basic + Internal Fuse
  - "E" Enhanced: Standard + Disconnect switch, Surge Counter

Characteristics

MODEL		IMSDM600			
PART NUMBER					
Suffix		120T (Single/Split Phase 3W+G) 120Y (Wye, 4W+G)	220Y (Wye, 4W+G) 240Y (Wye, 4W+G) 240D (Delta, 3W+G)	240DCT (High Leg Delta, 4W+G) 277Y (Wye, 4W+G) 347Y (Wye, 4W+G)	480D (Delta, 3W+G)
AC Network		120/240V (Single/Split Phase 3W+G) 120/208V (Wye, 4W+G)	220/380V (Wye, 4W+G) 240/415V (Wye, 4W+G) 240V (Delta, 3W+G)	120/240V (High Leg Delta, 4W+G) 277/480V (Wye, 4W+G) 347/600V (Wye, 4W+G)	480V (Delta, 3W+G)
UL MCOV (L-G)	Uc	150-210V	275V	420V	840V
TOV Withstand	Ut	175Vac	335Vac	420Vac	840Vac
UL Nominal Discharge Current 15 impulses 8/20 µs	In	20kA	20kA	20kA	20kA
Max. Surge Current (Total)	Imax	600kA	600kA	600kA	600kA
Max. Lightning Current (Total) 1 impulse 10/350 µs	Iimp	44kA	44kA	44kA	44kA
Max. Surge Current (Per Mode)		150kA	150kA	150kA	150kA
Max. Surge Current (Per Phase)		300kA	300kA	300kA	300kA
UL Voltage Protection Rating*	VPR	900	1200	1800	2000
Protection Level at In	Up	900	1300	1700	3000
UL Short-Circuit Current Rating	SCCR	200kA	200kA	200kA	200kA
Follow Current	If	none			
Sine Wave Tracking		Yes			
Thermal Disconnect		Included			
Max. Recommended Fuse		200A, Class J, IMSDM600-yyyy only (if upstream overcurrent fusing is desired)			
Dimensions		See Dimensions and Diagram*			
Connection		by screw terminals			
Remote Signal Indicator		250Vac Max, 2A			
Surge Counter		included on IMSDM600E-yyyy			
Mounting		Wallmount by screws (not supplied)			
Operating Temp		-40°C to +85°C (-40°F to +185°F)			
Enclosure Material		Metal (Standard)			
Environmental Rating		NEMA 4 outdoor rated			
Protection Class		IP56			
Weight		IMSDM600E 25lbs, IMSDM600S 17lbs, IMSDM600 17lbs			
STANDARDS COMPLIANCE					
IEC 61643-1 - INTERNATIONAL		Class I & II			
EN 61643-11 - EUROPE		Class I & II			
NF EN 61643-11 - FRANCE		Class I & II			
UL1449 5th Edition - USA		Type 1/2			
UL1449 5th Edition - CANADA		Type 1/2			
CSA C22.2 No. 8-M1986		Class 9091 32, Class 9091 92			
RoHS		Directive 2002/95/EC			
OPTIONAL FEATURES					
Surge Counter		Optional (-C) Available on IMSDM600-yyyy, IMSDM600S-yyyy			
Enclosure Material		Optional (-H16) NEMA 4X 316 Stainless Steel Available on IMSDM600-yyyy, IMSDM600S-yyyy, IMSDM600E-yyyy			
CONFIGURATION GUIDE					
Ex: IMSDM600-277Y-C		Basic model for 277/480Vac Wye,4W+G with surge counter option.			
Ex: IMSDM600S-120T		Standard model for 120/240Vac single/split phase, 3W+G, without options.			
Ex: IMSDM600E-240DCT-H16		Enhanced model for 120/240Vac Delta high leg, 4W+G with stainless steel enclosure option.			
IMSDM600 Series				Rev: Sept 2026	

Dimensions & Diagram

