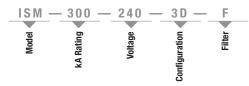




MODEL NUMBER SCHEME (ISM™)

E.g.: ISM-300-240-3D-F



L- A	Doling	MALLOT	Channa	Onal
KA	Rating	(IVIIISI	Unioose	Oriei

Available ISM™ kA Ratings:						
050, 080, 100, 125, 150, 200,						
250, 300						

Volta	Voltage* (Must Choose One)					
208	120/208					
240	120/240					
380	220/380					
480	277/480					
600	347/600					

Conf	Configuration* (Must Choose One)					
1G	1-Phase, Grounded					
2G	2-Phase, Grounded, Split-Phase					
3Y	3-Phase, Grounded, Wye					
3R	3-Phase, Grounded, High-Resistance					
ЗН	3-Phase, Grounded, High-Leg Delta					
3D	3-Phase, Grounded, Delta					

Tilda.	1111.00	Chassa	01
HIITER .	(IV/II ISI	Choose	()rrer

	(
F	EMI/RFI Filter (Type 1 SPD)		
F3 UL1283 Filter (Type 2 SPD)			
	No Filter if Blank		

Stand-Alone Options

(To Be Ordered As Separate

DTS	DTS-2 Diagnostic Test Set	
HPI	HPI Cable	

Integrated Monitoring Options

iiitogi	atou mointoring options					
M1X	1X LED/Phase + Audible Alarm,					
	Dry Relay Contacts					
M2X	M1 + Surge Counter					
МЗХ	Advanced Monitoring,					
	Character Display, Modbus RTU					
M4EX	M3 + Ethernet, Modbus TCP					
M5X	Advanced Monitoring,					

Graphics Display, Modbus RTU
M6EX M5 + Ethernet, Modbus TCP

The ISM (Integrated Suppression Module) features a suppression filter assembly, with individual thermally fused and protected MOVs, for improved current sharing. Surge rated copper bussing and robust filtering. Incorporate the ISM as part of your custom switchgear, switchboard, panelboard, and motor control center applications. Add the integrated monitoring option gives the ability to monitor the ISM.

FEATURES

- Component SPD suitable for use in Type 1 or Type 2 applications.
- Individual thermally fused and protected MOVs ensures seamless product performance in the event of single MOV failure.
- Heavy-duty filter capacitors ensure industry's best high frequency noise and transient filtering.
- Solid copper bus construction cumulative surge current is carried on copper bus bars, eliminating reliance on PCB trace for conducting full surge current.
- Thermoplastic polycarbonate rated UL 94V-0 housing.

PRODUCT SPECIFICATIONS

	nations					
General Specifications Safety Listings UL Listed 1449 4th Edition for Type 4 component Assembly for Type 1 and Type 2 SPD applications, cUL, and UL 1283 / Meets Requirements for UL 96A / Compliant to IEEE C62.41.1-2002, C62.41.2-2002 and C62.45- 2002 / NFPA 70 [NEC], Article 285 / RoHS Compliant / CE, IEC 61643-11-2011 / FCC Pa B Class B / EMC Directive 2004/108/EC / Low Voltage Directive 2006/95/EC						
Protection Method	d			MOVs, Capacitive Filter		
Product Design			dual thermally fu All Copper, Tin-pla	sed and protected MOVs, ated Bus		
Installation Location	on	Indoo	Indoor			
Operating Environment			-40°C to +60°C 5% – 95% Non-Condensing Humidity			
Fault Current (SCCR) 200kAIC						
Connection Method Parallel						
Protection Modes	Protection Modes All Modes (L-N, L-G, N-G, L-L)					
Response Time		< 0.5	Nanoseconds			
Operating Frequer	псу	47 –	47 – 63 Hz			
Warranty		15 Ye	15 Years			
Filtering Attenu	ation Frequenc	cies (Per Mi	I-Std-220B Jar	nuary 2000)**		
10 KHz	100 KHz	1 MHz	10 MHz	Max at 142 KHz		
18.1 dB	44 dB	22.8 dB	15.3 dB	54.6 dB		
Maximum Continuous Operating Voltage (MCOV)						
Voltage	L-N MCO	V	Voltage	L-L MCOV		
120V	150V		240V	300V		

^{**} Data based on actual tests. Contact factory for test reports

320V

420V

277V

347V



480V

600V

552V

690V

^{*}See table on next page for more Voltage/Configuration Options.



VOLTAGE/CONFIGURATION OPTIONS

Not all voltage configurations are displayed, contact Thomas & Betts Power Solutions for additional	1-Phase, Grounded	2-Phase, Grounded, Split-Phase	3-Phase, Grounded, Wye	3-Phase, Grounded, High-Resistance	3-Phase, Grounded, High-Leg Delta	3-Phase, Grounded, Delta
configurations.	1G	2G	3Y	3R	3H	3D
Voltage			Config	uration		
120	X					
208	X		X	X		X
220	X	X		X		X
230	Х					X
240	X	X			X	X
380		X	X	X		X
415		X	X	X		X
480		X	Х	X		X
600		Х	Х	Х		Х

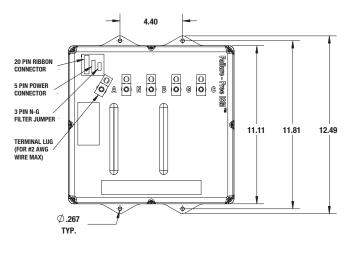
ISM™ PERFORMANCE DATA

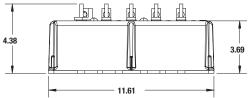
System Voltage	Mode	B3 Ring Wave 6kV, 500A	Combo Wave 6kV, 500A	B3/C1 Combo Wave 6kV, 3kA	UL 1449 3rd Edition 2009 Revision
	L-N	300	400	550	600
120/240	L-G	400	400	560	600
120/208	N-G	325	475	540	600
	L-L	425	725	935	1,000
	L-N	500	875	990	1,000
277/480	L-G	825	825	1,005	1,200
211/400	N-G	650	875	930	1,000
	L-L	700	1,625	1,825	2,000

All ISM™ systems voltage protection ratings (VPR) are peak values (±10%) measured from the 90° reference point and are in compliance with test and evaluation procedures outlined in ANSI/IEEE C62.41

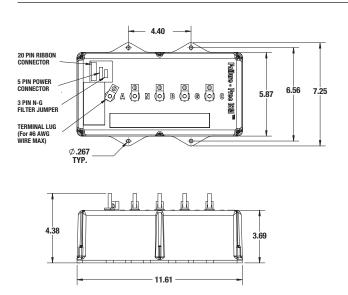
DIMENSIONAL SPECIFICATIONS

125kA - 300kA





50kA - 100kA







Integrated Monitoring Options

SPD INTEGRAL TO SWITCHGEAR

Example showing the ISM integrated into the switchgear and the M6EX remotely mounted on the swiface of the switchgear.





MONITORING FEATURES

The Integrated Monitoring Options offers multiple levels of advanced, multifunction, power quality monitoring. A robust, full-featured system, provides realtime data on product performance and distribution system power quality.

- Capable of providing time data stamp, magnitude, and duration for most types of power quality events.
- End users have the ability to set alarm conditions by establishing the magnitude and duration required to trigger an alarm event.
- Monitors and communicates the available surge protection for each phase, as a percentage of protection remaining.
- The surge counter function categorizes surges into low, medium or high surge current ratings.



M3X and M4EX display



M3X AND M5X MONITORING

- Local display with membrane switch user interface
- Power Quality Monitor that provides time, date, magnitude and duration of the following
 - Sags
 - Swells
 - Dropouts
 - Outages
 - Thermal Harmonic Distrortion
 - Frequency
 - Volts RMS per phase
 - Surges

Low 100A-500A

Med 500A—3000A

High 3000A+

- Remaining surge protection percentage
- User settable alarm thresholds (magnitude and duration)
- Two sets of dry relay contacts
- · Audible alarm, alarm silence
- Per phase LED indication
- ModBus RTU remote communications capability

M4EX AND M6EX MONITORING

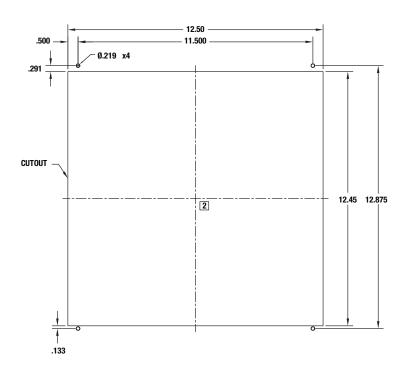
Includes features above plus:

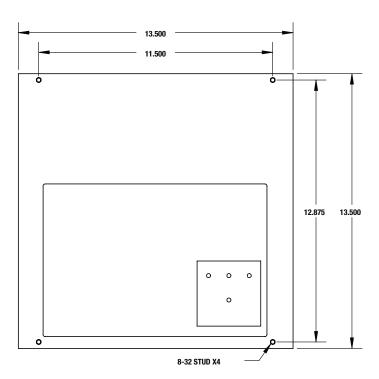
- Ethernet, Modbus TCP remote communications capability
- Web interface





REMOTE MOUNTING CUTOUT SPECIFICATIONS FOR M3X, M5X, M4EX, AND M6EX









Ahorra y contribuye con tu ambiente