Innovative Technology XT50/100 models, surge protective device



Introduction

Since 1980, Eaton's Innovative Technology® has provided surge protective devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton's Innovative Technology has a surge protective device to fill it.

General features

- · Parallel configured, hardwire connected, SPD
- Peak surge current—
 - XT50: 50 kA
 - XT100: 100 kA
- Application—Medium and low exposure level AC power service entrances, branch panels, and/or individual equipment disconnects feeding all types of loads
- · Warranty—Five year free replacement
- Unit listings—UL®1449 Third Edition; permanently connected; Type 1 and 2; CSA® marked
- Nominal discharge current—20 kA
- Short-circuit current rating—100 kA
- CE Compliant to IEC 61643-1 Test Classification I and II

- Vibration tested to IEC 60255-21-1 and -2
- Manufacturer qualifications—ISO® 9001:1994
 Quality System Certification BSI FM 30833

Mechanical and electrical features

- Enclosure—NEMA® 4X (IP56) polycarbonate weatherproof enclosure (meets or exceeds NEMA 1, 2, 4, 4X, 12, and 13)
- Mounting—Threaded conduit fitting and multipoint case mounting holes (external mounting feet available separately)
- Connection—#10 (6 mm²) stranded wire
- Weight—≈2.0 lbs (1.0 kg)
- Operating temperature— –13 to 140°F (–25 to 60°C)
- Protection—All modes
- Input power frequency—47–420 Hz (50/60 Hz typical)
- Diagnostics—LED indicators, one per phase, normally ON

Optional features and equipment

External mounting feet

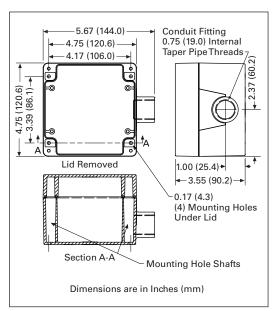


Figure 1. Standard Dimensions



Table 1. XT50/100 Voltage Ratings

System	Nominal	MCOV				UL 1449-3 VPR ①			
Configuration	System Voltage	ĿL	L-N	L-G	N-G	L·L	L-N	L-G	N-G
'	'								
Single-phase two-wire + ground	200, 208, 220, 230, 240, 277	_	320	640	320	_	1200	1200	1200
Single-phase two-wire + ground	380, 400, 440, 460, 480	_	550	1100	550	_	1800	4000	1800
Split-phase three-wire + ground	100/200, 110/220, 120/240	300	150	300	150	1200	700	1200	800
Three-phase wye (star) four-wire + ground	100/175, 110/190, 120/208, 127/220	300	150	300	150	1200	700	1200	800
Three-phase wye (star) four-wire + ground	220/380, 230/400, 240/415, 277/480	640	320	640	320	2500	1200	2000	1200
Three-phase wye (star) four-wire + ground	305/525, 347/600	840	420	840	420	2500	1500	2500	1500
Three-phase delta three-wire + ground	200, 208, 220, 230, 240	640	_	320	_	2000	_	1200	_
Three-phase high leg delta	240	300	150	150	640	1500	700	1200	700
Three-phase delta three-wire + ground	380, 400, 415, 440, 480	1100	_	550	_	3000	_	1800	_
Three-phase delta three-wire + ground	525, 600	1100	_	700	_	3000	_	2500	_
Single-phase two-wire + ground	200, 208, 220, 230, 240, 277	_	320	320	320	_	1200	1200	1200
Single-phase two-wire + ground	380, 400, 440, 460, 480	_	550	550	550	_	1800	1800	1800
Split-phase three-wire + ground	100/200, 110/220, 120/240	300	150	150	150	1200	700	800	700
Three-phase wye (star) four-wire + ground	100/175, 110/190, 120/208, 127/220	300	150	150	150	1000	600	700	700
Three-phase wye (star) four-wire + ground	220/380, 230/400, 240/415, 277/480	640	320	320	320	1800	1200	1200	1200
Three-phase wye (star) four-wire + ground	305/525, 347/600	840	420	420	420	2500	1500	1500	1500
Three-phase delta three-wire + ground	200, 208, 220, 230, 240	640	_	320	_	1800	_	1200	
Three-phase high leg delta	240	300	150	150	150	1200	700	700	700
Three-phase delta three-wire + ground	380, 400, 415, 440, 480	1100	_	550	_	3000	_	1800	_
	Single-phase two-wire + ground Single-phase two-wire + ground Split-phase three-wire + ground Three-phase wye (star) four-wire + ground Three-phase wye (star) four-wire + ground Three-phase wye (star) four-wire + ground Three-phase delta three-wire + ground Three-phase high leg delta Three-phase delta three-wire + ground Three-phase delta three-wire + ground Single-phase two-wire + ground Single-phase two-wire + ground Split-phase three-wire + ground Three-phase wye (star) four-wire + ground Three-phase wye (star) four-wire + ground Three-phase wye (star) four-wire + ground Three-phase delta three-wire + ground Three-phase delta three-wire + ground Three-phase delta three-wire + ground Three-phase high leg delta	Configuration System Voltage Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 Single-phase two-wire + ground 380, 400, 440, 460, 480 Split-phase three-wire + ground 100/200, 110/220, 120/240 Three-phase wye (star) four-wire + ground 200/380, 230/400, 240/415, 277/480 Three-phase wye (star) four-wire + ground 305/525, 347/600 Three-phase delta three-wire + ground 200, 208, 220, 230, 240 Three-phase high leg delta 240 Three-phase delta three-wire + ground 380, 400, 415, 440, 480 Three-phase delta three-wire + ground 525, 600 Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 Single-phase two-wire + ground 380, 400, 440, 460, 480 Split-phase three-wire + ground 100/200, 110/220, 120/240 Three-phase wye (star) four-wire + ground 100/175, 110/190, 120/208, 127/220 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 277/480 Three-phase delta three-wire + ground 305/525, 347/600 Three-phase high leg delta 240	System Configuration Nominal System Voltage L-L Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 — Single-phase two-wire + ground 380, 400, 440, 460, 480 — Split-phase three-wire + ground 100/200, 110/220, 120/240 300 Three-phase wye (star) four-wire + ground 100/175, 110/190, 120/208, 127/220 300 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 277/480 640 Three-phase wye (star) four-wire + ground 305/525, 347/600 840 Three-phase delta three-wire + ground 200, 208, 220, 230, 240 640 Three-phase delta three-wire + ground 380, 400, 415, 440, 480 1100 Three-phase delta three-wire + ground 525, 600 1100 Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 — Split-phase two-wire + ground 380, 400, 440, 460, 480 — Split-phase three-wire + ground 100/200, 110/220, 120/240 300 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 277/480 640 Three-phase wye (star) four-wire + ground 305/525, 347/600 840 Three-phas	System Configuration Nominal System Voltage L-L L-N Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 — 320 Single-phase two-wire + ground 380, 400, 440, 460, 480 — 550 Split-phase three-wire + ground 100/200, 110/220, 120/240 300 150 Three-phase wye (star) four-wire + ground 100/175, 110/190, 120/208, 127/220 300 150 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 277/480 640 320 Three-phase wye (star) four-wire + ground 305/525, 347/600 840 420 Three-phase high leg delta 240 300 150 Three-phase delta three-wire + ground 380, 400, 415, 440, 480 1100 — Three-phase delta three-wire + ground 525, 600 1100 — Single-phase two-wire + ground 380, 400, 440, 460, 480 — 550 Split-phase three-wire + ground 100/200, 110/220, 120/240 300 150 Three-phase wye (star) four-wire + ground 100/175, 110/190, 120/208, 127/220 300 150 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 2	System Configuration Nominal System Voltage LL L-N L-G Single-phase two-wire + ground 200, 208, 220, 230, 240, 277 — 320 640 Single-phase two-wire + ground 380, 400, 440, 460, 480 — 550 1100 Split-phase three-wire + ground 100/200, 110/220, 120/240 300 150 300 Three-phase wye (star) four-wire + ground 100/175, 110/190, 120/208, 127/220 300 150 300 Three-phase wye (star) four-wire + ground 220/380, 230/400, 240/415, 277/480 640 320 640 Three-phase wye (star) four-wire + ground 305/525, 347/600 840 420 840 Three-phase delta three-wire + ground 200, 208, 220, 230, 240 640 — 320 Three-phase high leg delta 240 300 150 150 Three-phase delta three-wire + ground 380, 400, 415, 440, 480 1100 — 550 Three-phase two-wire + ground 200, 208, 220, 230, 240, 277 — 320 320 Split-phase three-wire + ground 100/200, 110/220, 120/240 300 <td< td=""><td>System Configuration Nominal System Voltage L.L. 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① UL 1449 Third Edition VPR (voltage protection rating) test environment: All tests performed with 6-inch lead length, positive polarity.

Product ordering guidelines

Table 2. Catalog Numbering System

