

ACT TransShield 453 Family

A Wall Mounted Surge Protection Device



The Full Featured ACT TransShield 453 Family is a high performance surge protector designed for critical panel locations. The SPD incorporates high-energy MOVs with the optional EMI/RFI noise filtering to provide protection against transients originating from induced lightning strikes and utility switching.

Real time diagnostics include LED fault indicators for each phase and optional Form C dry contacts for remote indication allows the customer to always know the ACT 453 is at full capacity.

Housed in a rugged NEMA 12 enclosure these indoor devices are suitable for harsh indoor or covered applications. The ACT 453 Family is available for all voltages and configurations up to 480Vac with per mode surge ratings of 100kA or 80 kA and is available with remote signaling contacts and filtering that removes noise down to -40dB.

Technical Information

Mechanical Specifications

Dimensions	6"H X 6"W X 4"D
Weight	7.5 lbs.
Enclosure	NEMA 12 Painted Steel
Operating Temp	-40C to +65C
Non-condensing Humidity	5% to 95%

Options

kA rating	80kA 100kA	80 100
Alarm Relay Contacts	None Form C NC & NO	Standard R
Filter	None -40dB	Standard F

Electrical Specifications

Connection Method	Parallel
Protection Modes (10Modes)	L-N, L-G, L-L, N-G
Pre-Wired	18" stranded #10 AWG
Status Indicators	Green LED
Optional Alarm Relay Contacts	Form C NC & NO
Optional filter	-40dB noise reduction

Surge Rating per Mode: 100 = 100kA, 08 = 80kA

Example: ACT 453-120S-100 or ACT 453-277Y-080-RF

Part Number 453-Voltage-kA Rating-Options	Configuration	SVR				MCOV
		L-N	L-G	N-G	L-L	
453-120-XXX	120Vac, 1ph, 2W+G	500	1000	500	1000	150
453-240-XXX	240Vac, 1ph, 2W+G	1000	1800	1000	1800	320
453-480-XXX	480Vac, 1ph, 2W+G	1600	3200	1600	3200	575
453-120S-XXX	120/240Vac, 1ph, 3W+G, Split Phase	500	1000	500	1000	150
453-240S-XXX	240/480Vac, 1ph, 3W+G, Spilt Phase	1600	3200	1600	3200	575
453-120Y-XXX	120/208Vac, 3ph, 4W+G, Wye	500	1000	500	1000	150
453-220Y-XXX	220/380Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	320
453-240Y-XXX	240/415Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	320
453-240D-XXX	240Vac, 3ph, 3W+G, Delta	-	1000	-	1800	320
453-240H-XXX	120/120/240Vac, 3ph, 4W+G, Hi-Leg	500/1000	1800	-	1000/1800	150/320
453-277Y-XXX	277/480Vac, 3ph, 4W+G, Wye	1000	1800	1000	1800	320
453-347Y-XXX	347/600Vac, 3ph, 4W+G, Wye	1600	3200	1600	3200	575
453-480D-XXX	480Vac, 3ph, 3W+G, Delta	-	1600	-	3200	575

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Power Quality is more important today than ever before and that means not just any surge protector can be relied on to protect your sensitive equipment. The ACT TransShield 453 Family of surge protectors is the perfect design to protect your sensitive electrical and electronic environments.

Features and Benefits

- 4 Modes of Discrete Protection (L-N, N-G)
- 10 Modes of Protection (L-N, L-G, N-G, L-L)
- Green Status indicating Lights per phase
- NO/NC Form C Dry Contact option for remote monitoring
- Optional Filter removes noise down to -40dB
- Individually Fused MOV Technology
- 5 -Year Standard Warranty (10 year optional)

Standards Met

- Safety – UL 1449 2nd edition Feb 2007
- ANSI/IEEE C62.41, C62.45
- ANSI/NFPA 70 National Electrical Code

Recommended Location

- Cell Sites, Well Pumps / Cat C
- Distribution Equipment / Cat B
- Branch Panels / Cat B
- Point of Use / Cat A
- Residential / Cat C

3rd Party Tested

- Survives 5,000 (C3 20 kV / 10kA)