



Introducing UL 1500 Ignition Protected Circuit Breakers

UL 1500 Ignition Protected Circuit Breakers

KEY FEATURES

Meet Ignition Protection requirements in accordance with UL 1500

Magnetic and thermal types

One to four poles

Ratings from 200 milliamps to 50 amps

Broad array of mounting, actuator and termination options

Optional bottom marking of amperage available on thermal models

DESCRIPTION

One through four pole secondary circuit breakers (protectors) offering ratings from 200 milliamps to 50 amps.

Both magnetic (magnetic-hydraulic) and thermal types are available.

APPLICATIONS

Equipment in marine applications requiring secondary circuit breakers that meet the ignition protection requirements of UL 1500.

MECHANICAL

Termination options include quick connect terminals at various angles, #6-32, #8-32 and #10-32 screws, printed circuit board terminals and #10-32 studs.

Mounting options include a range of threaded bushings, snap-in options and a choice of #6-32 or M3 threaded holes.

STANDARDS AND SPECS

UL Recognized as supplementary protectors for the US and Canada, meeting the Ignition Protection requirements of UL1500.

UL Recognized as supplementary protectors for the US and Canada, meeting the requirements of UL1077.

UL File E69543

ELECTRICAL

Current ratings from 0.5 to 40 amps for thermal models and from 0.2 to 50 amps for magnetic types.

Maximum operating voltages to 50 volts DC, 250 volts AC for thermal models and 50 volts DC, 250 volts AC for magnetic types.

Interrupt capacities to 2000 amps for thermal types.

Interrupt capacities to 3000 amps @ 48 volts DC, 1000 amps @ 125/250 volts AC or 250 volts AC 3-phase Wye for magnetic types.



UL 1500 Ignition Protected Circuit Breakers

PRODUCT OVERVIEW



Series	W57	W54	W58	W6	W9
Type	Thermal	Thermal	Thermal	Magnetic	Magnetic
Features	• Compact design • Quick connect, screw or PC terminals • Button extends for visible trip indication • Push-to-reset operation	• Quick connect, screw or PC terminals • Button extends for visible trip indication • Push-to-reset operation	• Quick connect or screw terminals • Button extends for visible trip indication • Push-to-reset operation	• Compact design • Various delay options • Toggle/rocker actuation for manual on/off and reset • Optional aux. switch	• Various delay options • Toggle actuation for manual on/off and reset • Optional aux. switch
Approximate Size and Weight (per pole for W6 & W9)	.575" x 1.15" x .889"d (14.6 x 29.2 x 22.6d) .5 oz. (14.3g)	.575" x 1.378" x 1.22"d (14.6 x 35.0 x 31.0d) .9 oz. (25g)	.66" x 1.38" x 1.38"d (16.8 x 34.9 x 34.9d) 1.5 oz. (43g)	.75" x 2.0" x 1.64"d (19.1 x 50.8 x 42.1d) 2.5 oz. (71g)	.75" x 2.5" x 2.1"d (19.1 x 63.5 x 53.0d) 2.5 oz. (71g)
No. of Poles	1	1	1	1 through 4	1 through 4
Circuit Function	Series Trip	Series Trip	Series Trip	Series Trip	Series Trip
Current Rating	3-20 Amps	5-40 Amps	0.5-30 Amps	0.2-50 Amps	0.2-50 Amps
Max. Operating Voltage	50VDC; 250VAC	50VDC; 250VAC	50VDC; 250VAC	48VDC; 125/250VAC; 250VAC 3Ø - Wye	48VDC; 125/250VAC; 250VAC 3Ø - Wye
Trip Time at 200% of Rating	4 to 40 Sec.	5 to 40 Sec.	1-4A types – 10 to 45 Sec. 5-30A types – 6 to 30 Sec.	30ms to 150 Sec. (trip curve specific)	30ms to 150 Sec. (trip curve specific)
Interrupt Capacity	1,000A	1,000A	2,000A @ 50VDC 1,000A @ 250VAC	3,000A @ 48VDC 1,000A @ 125/250VAC or 250VAC 3Ø - Wye	3,000A @ 48VDC 1,000A @ 125/250VAC or 250VAC 3Ø - Wye
Terminal Options	.250" (6.35) Quick Connect, #8-32 Screw, PCB	.250" (6.35) Quick Connect, #8-32 Screw, PCB	.250" (6.35) Quick Connect, #6-32 Screw	.250" (6.35) Quick Connect, #8-32 or #10-32 Screw	#10-32 Stud
Mounting Options	3/8"-24, M11 -1.0 or M12-1.0 Threaded Bushing, Snap-In Mount	3/8"-24, M11 -1.0 or M12-1.0 Threaded Bushing, Snap-In Mount	7/16"-28 or 15/32"-32 Threaded Bushing	#6-32 Tapped Holes, M3 Tapped Holes, Snap-In Mount	#6-32 Tapped Holes, M3 Tapped Holes
Website Search Key	W57	W54	W58	W6	W9

Notes: Specifications and availability are subject to change without notice. Consult product series data sheets for detailed specifications. All part numbers in series described above are RoHS compliant.

FOR MORE INFORMATION

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