

Features

- Designed for the international market. UL Recognized, CSA Accepted, and VDE approved.
- Ratings to 50 amps.
- Heavy duty #10-32 stud connections. (W9)
- Quick-connect or screw terminals. (W6)
- Optional 10 amp auxiliary switch.
- Several delay curve options.
- Trip-free operation.

Agency Approvals

- UL: Recognized as Supplementary Protector under UL 1077. File E69543.
- CSA: Accepted as a Supplementary Protector. File LR15734.
- VDE: Approved to VDE 0642/EN 60 934 (Circuit Breakers for Equipment) License No. 73782.

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Electrical Data

Auxiliary Switch: See Auxiliary Switch Ratings Table 2 for details. Calibration: Breakers will hold 100% of rated current.

Breakers may trip between 101% and 124% of rated load (134% for AC/DC units).

Breakers must trip at 125% of rated load and above (135% for AC/DC units).

Dielectric Strength: 50/60 Hz., 1500V: DC, 1100V.

Insulation Resistance: 100 Megohms at 500VDC.

Endurance: 10,000 on/off cycles - 6000 at rated load, 4000 at no load. Units tested at six cycles per minute, 1 second on and 9 seconds off at 25°C ambient.

Approvals and Ratings Table 1 W6 Series UL/CSA (All Circuit Functions)

Maximum Voltage	Frequency (Hz)	Phase	Current Rating (Amps)	Interrupting Capacity (Amps)
65	DC	-	0.2 - 50	2,000
277	50/60	1	0.2 - 20	5,000
277 277/480 §	50/60 50/60	1 3Ø-Wve	21 - 50 0.2 - 20	2,500 5.000
2777400 5	30/00	30-VVye	0.2 - 20	3,000

§ Note: 277/480VAC,3Ø-Wye, rating is UL, but not CSA.

W9 Series UL/CSA (All Circuit Functions)

Maximum Voltage	Frequency (Hz)	Phase	Current Rating (Amps)	Interrupting Capacity (Amps)
65	DC	-	0.2 - 50	2,000
277	50/60	1	0.2 - 50	5,000
277/480 §	50/60	3Ø-Wye	0.2 - 20	5,000

§ Note: 277/480VAC,3Ø-Wye, rating is UL, but not CSA.

Approvals and Ratings Table 2

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UL/CSA

OBOOA										
Switch Number	Voltage 50/60 Hz.	Current (Amps)	Terminals WxTxL							
A	125	10	.093 x .020 x .250 (2.36 x .51 x 6.40)							

W6/W9 series

Magnetic Hydraulic Circuit Breakers

AI 🚯 🖄

Typical Resistance and Impedance

Current (Amps)	DC Resistance (Ohms)	50/60 Hz. Impedance (Ohms)
0.2	90	90
1.0	1.2	1.2
2.0	0.28	0.28
5.0	0.04	0.04
10.0	0.013	0.013
20.0	0.004	0.005
30.0	0.0027	0.004
40.0	0.002	0.002
50.0	0.0015	0.0015

Tolerance: $0.1 - 4.99 \pm 15\%$; $5 - 9.99 \pm 20\%$; $10 - 15 \pm 25\%$; $16 - 30 \pm 50\%$.

Mechanical/Environmental Data

Operating Temperature: -40°C to +85°C

Humidity: Meets requirements of Mil-STD-202 method 103.

- Shock: Tested per Mil-STD-202, method 213, test condition C (100g @ 6 ms).
- Vibration: Tested per Mil-STD-202, method 201, 10-55 Hz., 0.06" (1.52mm) total excursion in 2 planes.

Fungus And Moisture Resistance: Special moisture resistant finish applied to all ferrous parts. Plastic parts are made of inherently

- fungus resistant material. **Marking:** W6 units have ON and OFF molded on the rocker of rocker actuated units (rocker actuated VDE units have international "1" and "0"). W9 units have ON and OFF molded into the area at the base of the toggle. International "1" and "0" symbols are marked on the toggle for both W6 and W9.
- Mounting: Units are mounted with two #6-32 screws from the front of the panel. Metric models for use with M3 x 0.5 screws are available. To maintain published performance specifications, units should not be mounted more than 90° from their normal upright position.

Weight: Approximately 2.5 ounces per pole.

,	W6 Series	ries VDE (Circuit Function X)								
	Maximum Voltage	Frequency (Hz)	Phase	Current Rating (Amps)	Interrupting Capacity (Amps)					
	65	DC	-	0.2-50	2,000					
	250 250	50/60 50/60	1	0.2-30 31-50	5,000 2.000					
	415/240	50/60	зø	0.2-30	5,000					

W9 Series VDE (Circuit Function X)

Maximum Voltage	Frequency (Hz)	Phase	Current Rating (Amps)	Interrupting Capacity (Amps)					
65	DC	-	0.2-50	2,000					
250	50/60	1	0.2-30	5,000					
250	50/60	1	31-50	2,000					
415/240	50/60	зØ	0.2-30	5,000					

specified.

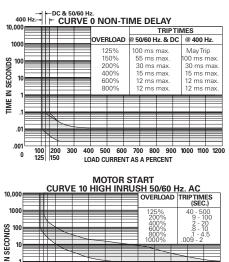
CURVE 2 AC VOLTAGE 50/60 Hz.

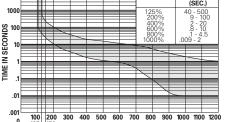
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Time vs. Current Trip Curves For W6 Series and W9 Series

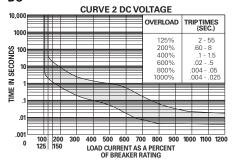
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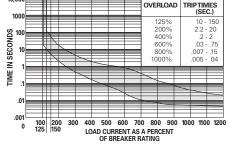
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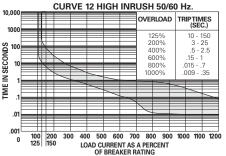


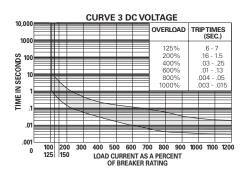


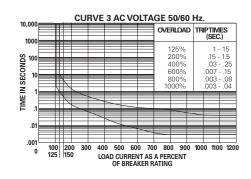


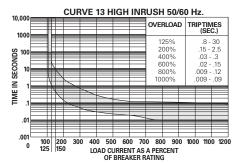


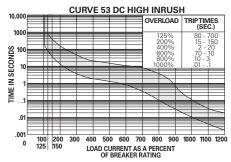




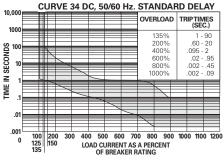








AC/DC



Note:

For instantaneous curves for all voltages refer to Curve 0 Non-Time Delay under the AC 50/60 Hz. heading.

Pulse Tolerance Specifications

Pulse tolerance is defined as a single pulse of a half sine wave (1/2 cycle or 8 milliseconds) that will not trip the breaker. An inertia wheel for increased pulse tolerance is available by specifying "P" after the time delay curve number in the ordering information. The table at right lists pulse tolerance values of standard and inertia delay models.

	Time	Pulse Tolera	ance Value
Voltage	Delay Curve	Standard	Inertia Delay
	2	7.5	18
AC	3	6	18
50/60 Hz.	10	18	30
	12	18	30
	13	18	30

To determine pulse tolerance multiply breaker rating by value in table. For example, a 2A breaker with time delay curve 3 has a standard pulse tolerance of 12A (2A x 6). The same breaker with an inertia delay has a pulse tolerance of 36A (2A x 18)

P&B

Dimensions are shown for 120 reference purposes only.

Specifications and availability subject to change.

tyco

Electronics						lssue	ed 3-03 (Pl	DF Rev. 11	I-06)								P &
Ordering Info	mation																
W6 Series																	
						Typical F	Part No	. 🕨 📗	W	67-	Χ	2	Q	1	2-	20	
1. Circuit Breaker W = #6-32 mou			M = M	3.0 x 0.5	mountir	ng threads.]									
2. Number of Pole 67 = Single pole		68 = Two	pole	69	= Three	e pole	70 =	Four pole	 ;								
B. Circuit Functio A = Series trip v				:) X	= Serie	s trip					-						
 Actuator: (One 1 = Black toggle 2 = White toggle 	3 = B	per pole) lack rocker /hite rocke		Red rocker Grey rocke		9 = Red to	ggle										
5. Termination: Q = .250" QC (I Note: "T" termina						2 screw [30)A Max. V	′DE]	T = #	10-32 so	crew [50)A Max.	VDE]				
6. Maximum Line						I = 250 VAC	C, 415/240	OVAC									
5 = 6 7 = A ([77/480VA0 5VDC C/DC 277 Delay curve	C § VAC or 65\ e 34 must	be specifi	ŤŸ	PES	5 = 65VDC 7 = AC/DC	urve 34 m	415/240V/ nust be sp									
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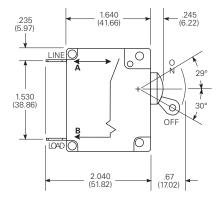
1. Circuit Breake W = #6-32 mou		M = M3.0 x 0.5 moun	ting threads.				
2. Number of Pol 91 = Single pol		pole 93 = Three	e pole 94 =	Four pole			
	on: (Only X is VDE a with auxiliary switch		Series trip				
4. Actuator: (One 1 = Black toggi	e actuator per pole e $2 = W$: /hite toggle					
UL/CSA 1 = 1 TYPES 2 = 1 5 = 1 7 = 2	277VAČ, 50/60 Hz. 277/480VAC § 65VDC AC/DC 277VAC or 65 Delay curve 34 mus		1 = 250VAC, 415 5 = 65VDC 7 = AC/DC 250V (Delay curve	5/240VAC AC, 415/240VAC, 65\ 34 must be specified			
6. Time Delay Cu 0 = Instantaneo 2 = Standard do 3 = Short delay 53 = DC high ir	bus 10 = A elay 12 = A 13 = A	AC high inrush (Motor s AC high inrush version o AC high inrush version o Combination AC/DC sta	of #2 of #3			used pulse tolerance for 1/2 cyc curve section for availability and	
7. Amp Rating: 0.20 0.7 0.25 1.0 0.50 1.5	2.5	3.5 6.0 4.0 7.0 5.0 7.5	9.0 1	1.0 20.0 2.0 25.0 5.0 30.0	35.0 40.0 45.0	50.0 Consult factory for other value	25
B. VDE Approval: Blank = UL/CS/	A approved breaker	V = VDE a	pproved breaker w	ithout auxiliary switcl	า		
Authorized d	istributors are	more likely to st	ock the follow	ving items.			
W91-X112-1 W91-X112-2 W91-X112-3	W91-X112-15 W91-X112-20 W91-X112-40	W91-X113-15 W91-X150-5 W91-X152-10	W91-X152-40 W91-X152-50 W91-X1110-20	W92-X112-5 W92-X112-7 W92-X112-10	W92-X W92-X W92-X	112-40 W93-X112-5 112-50 W93-X112-1	5 W93-X112-40 10 W93-X112-50
W91-X112-5 W91-X112-7 W91-X112-10	W91-X112-50 W91-X113-5 W91-X113-10	W91-X152-15 W91-X152-20 W91-X152-30	W92-X112-1 W92-X112-2 W92-X112-3	W92-X112-15 W92-X112-20 W92-X112-25	W92-X W92-X		20 W93-X1110-30

Dimensions are shown for reference purposes only. Dimensions are in inches over (millimeters) unless otherwise specified. Downloaded from Elcodis.com electronic components distributor

Specifications and availability subject to change.

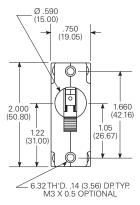
Outline Dimensions - Toggle Actuator Models

W6 Series



W6 Series

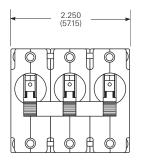
1 Pole

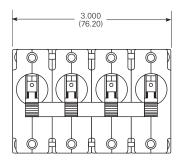


Note: Multi-pole models furnished with separate handle tie hardware.

2 Pole

1.500 (38.10) 4 Pole







UL/CSA Models W/Screw Terminals

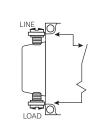
> .235 (5.9)

1.530 (38.86)

LINE

LOAD

UL/CSA/VDE Models W/Aux. Switch



2.032 (51.61) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57) (10.57)

Notes:

- Terminal protrusion dimensions are referenced from back of mounting panel.
 Main terminals are male quick connect type .250 (6.35) wide x .031 (.79) thick x .377 (9.58) long. Optional 8-32 x .250 (6.35) or 10-32 x .250 (6.35) screw type.
- Panel mounting cutout detail mtg. detail tol.: ± .005 (.13) unless noted. Add additional cutouts to correspond to number of poles. Outline drawing tolerance ± .015 (.38) unless noted. Dimensions in brackets () are in millimeters.

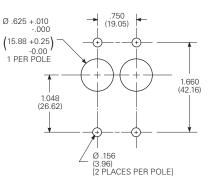
Dimensions are shown for 122 reference purposes only.

122 reference purposes only. (millimeter specified. Downloaded from <u>Elcodis.com</u> electronic components distributor

Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

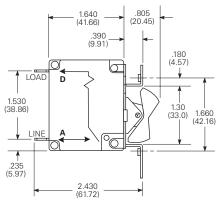
www.tycoelectronics.com Technical support: Refer to inside back cover.

Panel Mounting Cutout

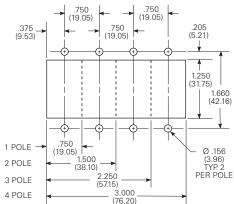




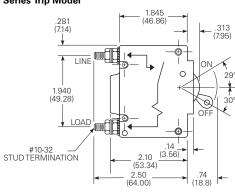
Outline Dimensions - Rocker Actuator Models W6 Series



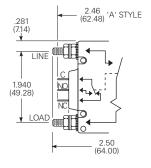
Panel Mounting Cutout



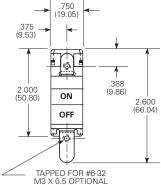
Outline Dimensions W9 Series Series Trip Model

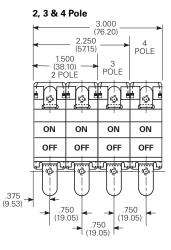


Series Trip Model With Common Enclosed Auxiliary Switch

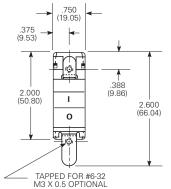








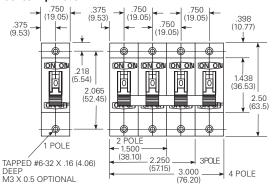
VDE Rocker Marking



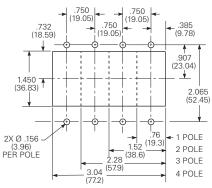
Notes:

- Outline drawing tolerance ± .015 (.38) unless noted. Dimensions in brackets () are in millimeters.
- 2. Mounting Detail Tol.: ± .005 (.13) unless noted

Series Trip Model



Panel Mounting Cutout Detail



Notes:

- Terminal protrusion dimensions are referenced from the back of the mounting panel.
 Mounting detail tolerance
- Mounting detail tolerance ±.005 (13) unless noted.
 Outline drawing tolerance ± .015 (.38) unless noted.
- .015 (.38) unless noted. Dimensions in brackets () are in millimeters.

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Specifications and availability subject to change.

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Engineering Notes