

Distinctive Characteristics

Industry's first molded rocker with TV rating. Designed to handle large inrush current. JWM models certified for TV-5 rating and JWL models for TV-8 rating.

Special 5A @ 72V DC rating for JWL models to use in worldwide telecommunication equipment for power distribution applications.

Prominent external insulating barriers increase insulation resistance and dielectric strength.

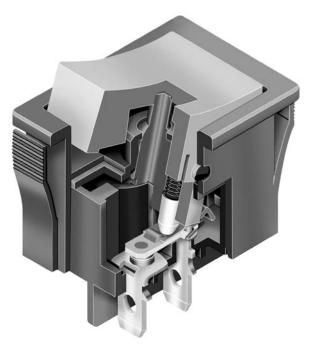
Constructed for dust resistance with interior cover between actuator and contact area.

Specially designed to break light contact welds.

JWMW panel seal version meets IP67 of IEC60529 Standards (similar to NEMA 4 and 6).

Terminals are molded in and epoxy sealed to lock out flux, dust, and other contaminants.

Housing and case of heat resistant resin meet UL 94V-0 standard.









General Specifications

Electrical Capacity (Resistive Load)

Power Level: 10A @ 125/250V AC for JWM & JWMW models; 10A @ 30V DC for JWMW; 16A @ 125/250V AC for JWL models; 5A @ 72V DC for telecommunication applications

Other Ratings

Contact Resistance:	10 milliohms maximum for JWM & JWMW; 20 milliohms maximum for JWL
Insulation Resistance:	1,000 megohms minimum @ 500V DC
Dielectric Strength:	2,000V AC minimum between contacts for 1 minute minimum;
	4,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	25,000 operations minimum
Electrical Life:	25,000 operations minimum
Nominal Operating Force:	JWM & JWMW Single Pole 3.92N & Double Pole 7.84N
	JWL Single Pole 5.00N & Double Pole 10.00N
Angle of Throw:	26°

Materials & Finishes

Housing/Frame & Barrier:	Polyamide (UL94V-0)	Movable Contacts:	Silver alloy
Interior Seal for JWM & JWL:	Polyphenylene sulfide	,	Silver alloy
Case/Base:	Melamine (UL94V-0)	Terminals:	Brass with silver plating

Environmental Data

Operating Temp Range:	–25°C through +70°C (–13°F through +158°F) for JWM & JWL;
	–25°C through +85°C (–13°F through +185°F) for panel seal JWMW model
Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range
	& returning in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP67 of IEC60529 standard for panel seal JWMW model; dust resistant inner seal for others.

UL94V-0 for housing/frame & case/base of JWL, JWM, & JWMW models

Steady State Current (rms) 7.5A; Minimum Inrush Current (peak) 111A

JWM & JWMW (TV-5) Overload Test @ 120V AC for 50 operations:

25°C Harrish . 70°C / 12°F Harrish . 150°F) [- 184/44 9 184/

Installation

Soldering Time & Temp:

Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards: TV Ratings for UL & CSA: UL File No. WOYR2.E44145 CSA File No. 023535-0-000







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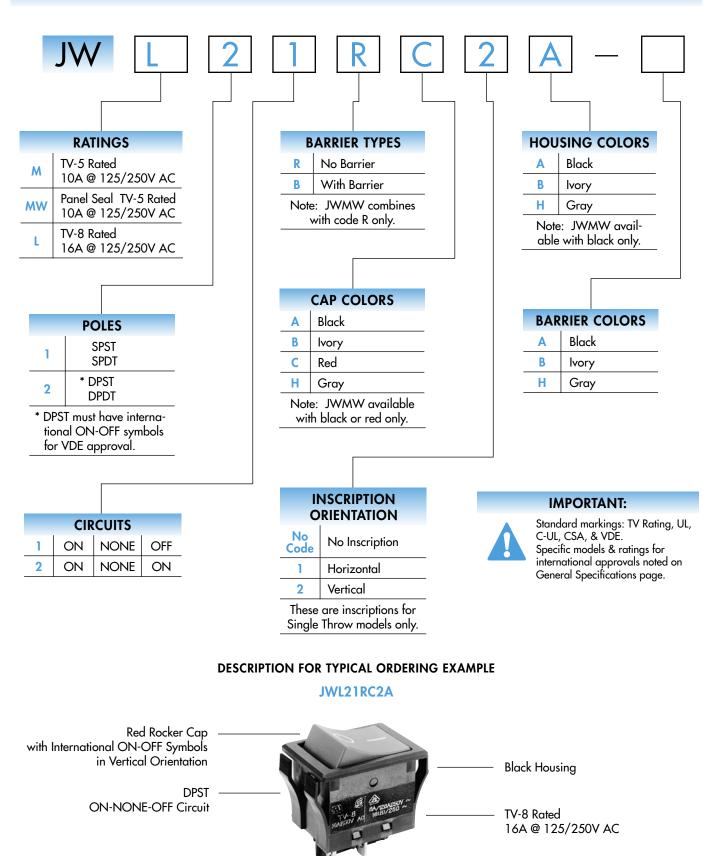
CSA Certified:

VDE Approved:

JWM & JWMW (TV-5) Endurance Test @ 120V AC for 25,000 operations: Steady State Current (rms) 5A; Minimum Inrush Current (peak) 78A JWL (TV-8) Overload Test @ 120V AC for 50 operations: Steady State Current (rms) 12A; Minimum Inrush Current (peak) 163A JWL (TV-8) Endurance Test @ 120V AC for 25,000 operations: Steady State Current (rms) 8A; Minimum Inrush Current (peak) 117A JWM & JWMW models recognized at 10A @ 250V AC & JWMW at 10A @ 30V DC; JWL models recognized at 16A @ 250V AC; 5A @ 72V DC (specify "/U-DC" after part number to request UL rating be marked on DC rated switches); UL File No. WOYR2.E44145; C-UL File No. WOYR8.E44145. JWM & JWMW models certified at 10A @ 250V AC; JWL models certified at 16A @ 250V AC; CSA File No. 023535-0-000 JWM models approved at steady state 5A, inrush 80A, resistive 10A, & motor load 6A all at 250V AC; VDE License No. 115637; JWL models approved at steady state 8A, inrush 128A, resistive 16A, & motor load 8A all at 250V AC; VDE License No. 115637. Note: JWM & JWL Double Pole, Single Throw models approved only with the international on-off symbols on the actuator.



TYPICAL SWITCH ORDERING EXAMPLE





Internationally Approved TV Rated Rockers Series JW

RATINGS M TV-5 Rated Power Level 10A @ 125/250V AC MW Panel Seal TV-5 Rated Power Level 10A @ 125/250V AC L TV-8 Rated Power Level 16A @ 125/250V AC

	POLES & CIRCUITS										
		Re	ocker Positi	on	Connected Terminals		inals	Throw & Schematics			
Pole	Model	Down	Center	Up	Down	Center	Up	Note: Terminal numbers are not actually on the switch. Actuator positions oriented with switch part number facing front.			
SP	JWM11 JWMW11 JWL11	ON	NONE	OFF	1-1b	OPEN	OPEN	SPST			
SP	JWM12 JWMW12 JWL12	ON	NONE	ON	1-1b	OPEN	1-1a				
DP	JWM21 JWMW21 JWL21	ON	NONE	OFF	1-1b 2-2b	OPEN	OPEN	DPST			
DP	JWM22 JWMW22 JWL22	ON	NONE	ON	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT			

BARRIER TYPES & COLORS



No Barrier

Flange/Housing Material: Polyamide Finish: Matte





JWM

JWL

No-barrier type has a flat flange which is an integral part of the switch.

JWMW panel seal device has exterior seal of acrylonitrile butadiene rubber covering the flange.



With Barrier

Barrier Material: Polyamide Finish: Matte



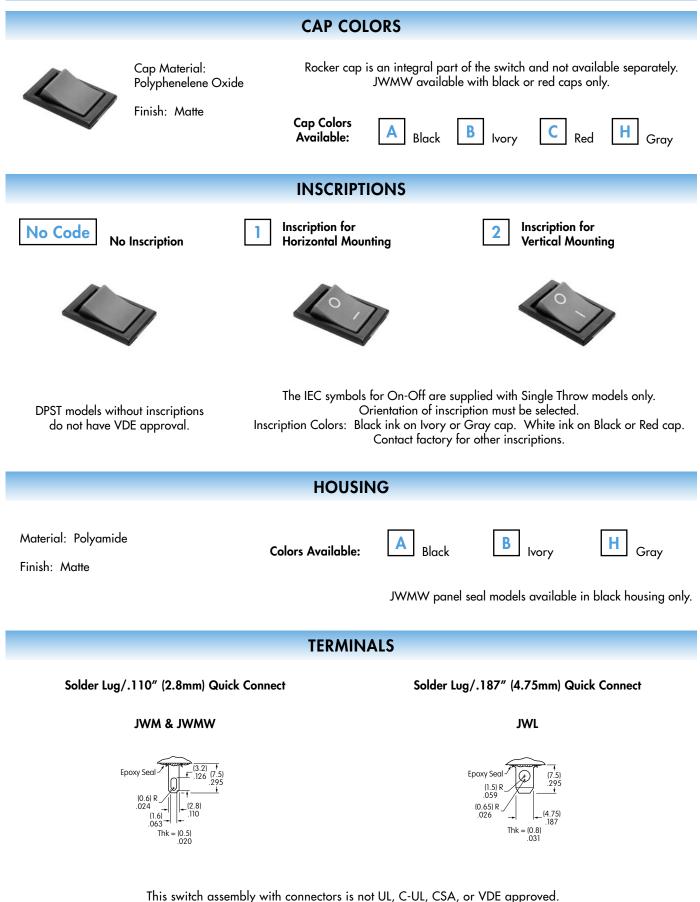
JWM



Barrier type designates that either AT217 (for JWM) or AT218 (for JWL) is factory assembled. Dimensions for barriers are shown in the Accessories section.

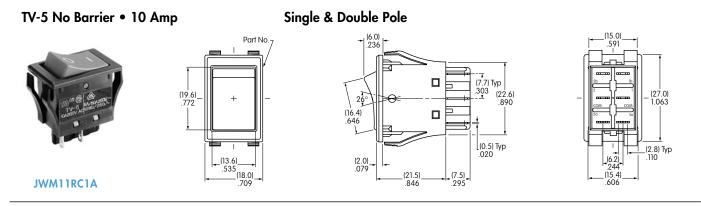






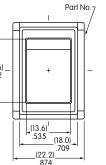


TYPICAL SWITCH DIMENSIONS

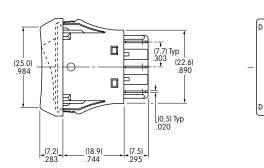


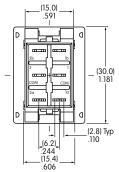
TV-5 With Barrier • 10 Amp

JWM11BCA-H



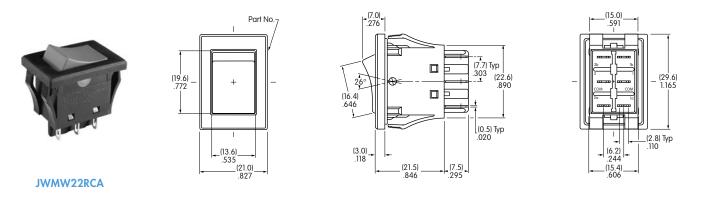






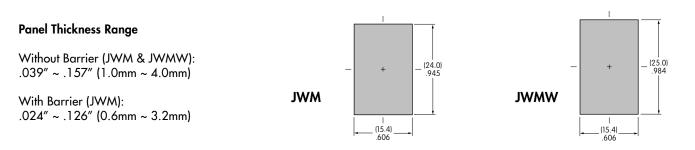
Panel Seal • TV-5 No Barrier • 10 Amp

Single & Double Pole



Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.

PANEL CUTOUTS FOR JWM MODELS

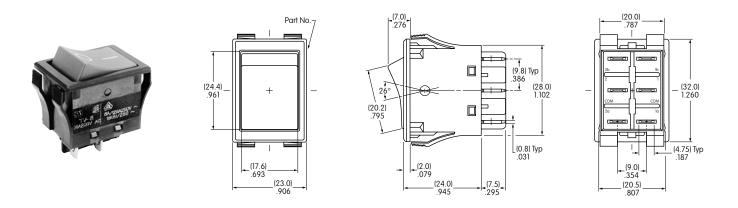




TYPICAL SWITCH DIMENSIONS

TV-8 No Barrier • 16 Amp

Single & Double Pole

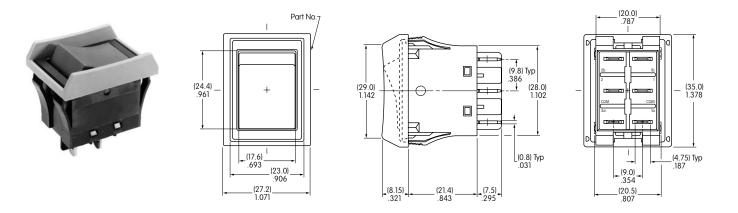


JWL21RC2A

Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.

TV-8 With Barrier • 16 Amp

Single & Double Pole



JWL11BCA-H

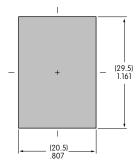
Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.

PANEL CUTOUT FOR JWL MODELS

Panel Thickness Range

Without Barrier: .039" ~ .157" (1.0mm ~ 4.0mm)

With Barrier: .024" ~ .126" (0.6mm ~ 3.2mm)





OPTIONAL DUST COVER

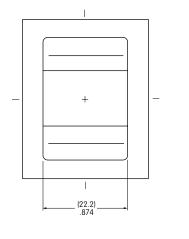
AT4126 Dust Cover for JWL Rocker

Lid: Clear Polyvinyl Chloride Base: Black Polyamide

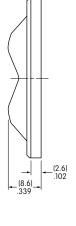
Recommended Temperature Range: -10° ~ +70°C (+14°F ~ +158°F) Loses pliability below 0°C (+32°F)

Recommended Panel Thickness: .031" ~ .134" (0.8mm ~ 3.4mm)





Тор



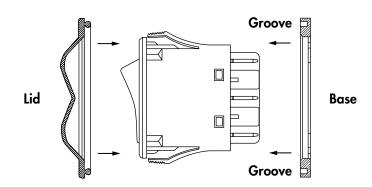
Side

Bottom

(33.0)

- (42.0) 1.654

Switch



Assembly Instructions:

- (1) Insert bottom of switch through the **base** until the tabs lock into place.
- (2) Snap the switch into the panel.
- (3) Seat the lid into the grooves of the base.