

Quick Reference Guide AW Series Switches

The AW Series toggle switch features many circuit configurations, including SPST, SPDT, DPST, DPDT and 4PDT, with a choice of momentary or maintained circuits. The switch provides superior switching power through brass silver alloy contacts. This toggle is UL, CSA recognized for 20A at 30VDC and 20A at 250VAC. Electrical life is 20,000 cycles at full load. Other electrical parameters include contact resistance of 10 milliohms max., insulation resistance of 1,000 megohms and actuation force of 29.4 N max.

The AW Series switches have .250 quick connect terminals and all are panel mountable with 12 mm threaded bushing which is brass with chrome plating. The series mounting design conforms to standard panel cut outs, easing the task of installation.

Features

- IP67 panel mounting seal
- Sleeve and Frame perfect sealed
- Fixed contact molded-inserting construction
- Wide range switch functions available
- Meets requirements of industrial and outdoor environments

Applications

These devices are ideal for any design requiring human interface via toggle-style switch in harsh environments, including:

- Industrial equipment
- Heavy machinery
- Construction equipment
- Transportation vehicles
- Outdoor concert and lighting equipment
- Portable power tools



Typical Performance Characteristics

Number of Poles : 1, 2 and 4 pole Switch Functions : ON-OFF, ON-ON, ON-(ON), ON-OFF-ON, ON-OFF-(ON), (ON)-OFF-(ON) Contact Rating : 20 A @250 VAC, 20 A @125 VAC, 20 A @30 VDC Electrical Life : 20,000 cycles Mechanical Life : 40,000 cycles Contact Resistance : Max. 10 mOhm at 2-4 VDC 1 A Insulation Resistance : Min. 1,000 MOhm Dielectric Strength : 1,500 VAC for 1 min. Actuation Force : Max. 29.4 N Panel Cut-out : D-cut, 12.5 mm Standards and Specs : UL, CSA

Environmental Specification

Operating Temperature : -20 to +70°C Storage Temperature : -20 to +70°C Vibration Resistance : 1.5 mm 10-55 Hz Shock Resistance : 50 g for 11±1 msec Terminal Strength : 24.5 N

Material Specifications

Contacts : Brass silver alloy finish Toggle : Brass chromium plated Terminals : Brass plate Case : Phenol resin Cover : Steel zinc plated Seal : Rubber "o" ring panel seal, insert molded internal toggle seal

Other Characteristics

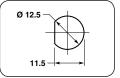
Contact Timing : Break before Make Right Angle Versions : No Standard Number of Positions : 2 or 3 Terminals / Mounting Style : Quick connect Actuator Style : Standard toggle Dimensions Case (LxWxH) : 33 x 19.5 ... 36.5 x 24.5 mm Packaging : Bulk Choice of momentary or maintained circuits



1 Pole



ALCO



Panel Mounting Hole

Product Key

Type A				T	T	T	
~	A Series power to	مامم	witch 1 & 2 note				
	A denes power to	ggie :	switch, i d 2 pole				
Seali	ing						
W	Waterproof						
Actua	ator Style						
т	Toggle						
Switc	ch Function & Po	les					
	1 pole		2 pole				
Α	ON-OFF	Ν	ON-ON				
D	ON-ON	P	ON-OFF-ON				
Ē	ON-OFF-ON	R	ON-(ON)				
F	ON-(ON)	S	(ON)-OFF-(ON)				
G	(ON)-OFF-(ON)	Ť	ON-OFF-(ON)				
н	ON-OFF-(ON)		· · ·				
Powe	er Rating						
1	20 A @ 125/250 V	/AC					
Term	inal Type						
5	.250 Quick Conne	ct Ter	minal				
Vate	rial						
04	RoHS Compliant						



PART NUMBERS								
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number		
AWTA1504	Waterproof	1 pole	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-3		
AWTD1504	Waterproof	1 pole	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-0		
AWTE1504	Waterproof	1 pole	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-1		
AWTF1504	Waterproof	1 pole	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-4		
AWTG1504	Waterproof	1 pole	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-5		
AWTH1504	Waterproof	1 pole	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-6		
AWTN1504	Waterproof	2 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-2		
AWTP1504	Waterproof	2 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	3-6437592-9		
AWTR1504	Waterproof	2 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	5-6437630-0		
AWTS1504	Waterproof	2 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-1		
AWTT1504	Waterproof	2 poles	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-0		

Product Key

			Typical Pro	duct	Key	Α	4	т	κ	1	5	w	04
Туре)		21		,	Τ	T	T	T	Т	Т	T	T
A		ver tog	ggle switch, 4 pol	е									
Pole	c.												
	-												
4	4 pole												
Actu	ator Style												
т	Toggle												
Swit	ch Function												
к	ON-OFF	Р	ON-OFF-ON	s	(ON)	-OFF-	(ON)						
N	ON-ON	R	ON-(ON)	-	(2)		()						
Pow	er Rating												
1	20 A @ 125/	250 V	AC										
Term	ninal Type												
5	.250 Quick C	Connec	ct Terminal										
Seal	ina												
	-												
w	Waterproof												
Mate	erial												
04	RoHS Comp	liant											



4 Pole

04 RoHS Compliant

PART NUMBERS								
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number		
A4TK15W04	Waterproof	4 poles	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-0		
A4TN15W04	Waterproof	4 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-1		
A4TP15W04	Waterproof	4 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-2		
A4TR15W04	Waterproof	4 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-3		
A4TS15W04	Waterproof	4 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-4		



How to Specify in a Switch

Electrical Considerations

Voltage of Applications:		Current	of Application):	
Circuitry Configuration: Number of Po	les:		_ Number of	Throws:	
Number of Operations anticipated:					
Agency Approvals or Listings Desired:					
Mechanical Considerations					
Type of Switch (Actuator Type):	Toggle	Pushbuttor	nRot	aryRocker	Other
Switch Function (On/Off/On):		On/Off:		Momentary:	
Termination:Thru-Hole (PC)	Surface	Mount	_Wire Lug _	Quick Connect	Other
Sealing Contamination Requirements:					
Product Processing Considerations					
Anticipated Soldering Process:	_ Hand	_Wave	_SMT	Other	

FOR MORE INFORMATION

TE Technical Support Center

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31(0)73-6246-999
China:	+86 (0) 400-820-6015

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