

# **Power Latching Relay EW60**

- 1 pole 60A, 1 form A (NO) contact
- Polarized bistable (latching) with 1 or 2 coils
- NEMA 410-2011, 16A, 277VAC, electronic ballast; 20A branch circuit
- 480A inrush, 2.1m sec

# Typical applications

Lightting control, bus actuator, power distribution, circuit protection, inverter

Approvals	
UL	

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	440VAC
Rated current	60A
Breaking capacity max.	15kVA
Contact material	AgSnO <sub>2</sub>
Initial voltage drop	≤1mΩ @ 3A, 12V
Frequency of operation with/without load	360/3600h <sup>-1</sup>

## **Contact ratings**

Type	Contact	Load	Cycles
UL508			
EW60-1A3	NO	60A, 250VAC, resistive, 70°C	1x10 <sup>4</sup> 1)
EW60-1A3	NO	60A, 250VAC, general use, 70°C	6x10 <sup>3</sup>
EW60-1A3	NO	120VAC, 1HP (horsepower) 23°C	1x10 <sup>4</sup>
EW60-1A3	NO	16 or 20A, electr. ballast, 70°C	50x10 <sup>3</sup>
1) in Process			

Coil Data	
Magnetic system	polarized, bistable (latching)
Number of coils	1 or 2
Coil voltage range	12VDC
Min /Max, energization duration	100ms/1min at <10% duty factor

# Coil versions, bistable coil

Coil	Rated	Set	Reset	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC	VDC	Ω±10%	W	
bistable	1 coil					
BL12	12	9.6	9.6	96	1.5	
bistable	bistable 2 coil					
CL12	12	9.6	9.6	48	3/3	

All figures are given for coil without preenergization, at ambient temperature +23°C Max. coil power: 130% of rated coil power Other coil voltages on request

Coil operation	1 coil	2 coils
coil terminals	A1 A2	A1 A2 A3
Set	- +	- +
Reset	+ -	- +
Contact position not defined at delivery		

Insulation Data	
Initial dielectric strength	
between open contacts	1500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
Initial surge withstand voltage	
between contact and coil	10000V (1.2/50µs)
Clearance/creepage	
between contact and coil	≥6/9mm



Material group of insulation parts	Illa
Tracking index of relay base	PTI 175V

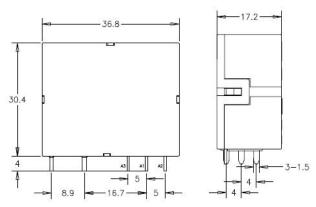
## **Other Data**

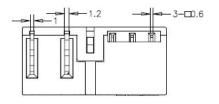
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature	-40 to 70°C		
Category of environmental protection			
IEC 61810	RTI (dust protected)		
Vibration resistance (functional)	1.5mm double amplitude <sup>1)</sup>		
Shock resistance (functional)	50g		
Shock resistance (destructive)	100g		
Terminal type	PCB Mounting		
Weight	appr. 37.5g		
Packaging/unit	200pcs/carton		
45			

<sup>1) 10...55</sup>Hz

## **Dimensions**



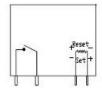




# Power Latching Relay EW60 (Continued)

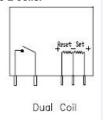
## Wire Connection drawing

## bistable 1 coil:

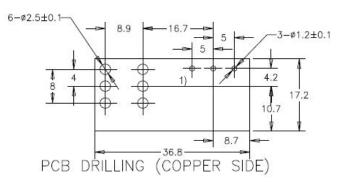


Single Coil

## bistable 2 coils:



## PCB Drilling (Copper Side)



1) if 2 coil version



Product code	Design	Coil	Contact material	Part Number
EW60-1A3-BL12D04	Vertical	12V Bistable, 1 Coil, 1.5W	AgSnO <sub>2</sub>	2071366-1
EW60-1A3-CL12D04	Vertical	12V Bistable, 2 Coils 3W	AgSnO <sub>2</sub>	2071366-2

Other types on request

# **Mouser Electronics**

**Authorized Distributor** 

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TE Connectivity:

EW60-1A3-CL12D04,00000 EW60-1A3-BL12D04,00000