

# **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 E58304	

Contact Data		
Contact arrangement	1 form A (NO)	
Rated voltage	277VAC	
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**

Туре	Contact	Load	Cycles
UL508			
EW60-1A3	NO	60A, 250VAC, resistive, 70°C	1x10 <sup>4</sup> 1)
EW60-1A3	NO	60A, 277VAC, general use, 85°C	6x10 <sup>3</sup>
EW60-1A3	NO	120VAC, 1.5HP, 85°C	1x10 <sup>5</sup>
EW60-1A3	NO	16 or 20A, 277VAC, electr. ballast, 70°C	50x10 <sup>3</sup>
EW60-1A3	NO	16A, 120VAC, electronic ballast, 85°C	50x10 <sup>3</sup>
EW60-1A3	NO	20A, 277VAC, standard ballast, 85°C	100x10 <sup>3</sup>
EW60-1A3	NO	20A, 120VAC, tungsten, 85°C	100x10 <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
Mechanical endurance. DC coil	1x10E6

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	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	



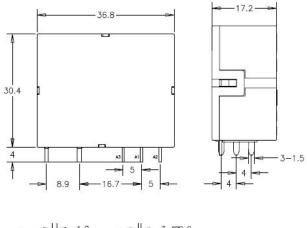
between contact and coil	10000V (1.2/50µs)
Clearance/creepage	
between contact and coil	≥6/9mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 175V

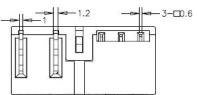
## **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

<u>VV V</u>	w.te.com/customersupport/forissupportcenter
Ambient temperature	-40 to +85°C
Category of environmental pr	rotection
IEC 61810	RTI (dust protected)
Vibration resistance (function	al) 1.5mm double amplitude <sup>1)</sup>
Shock resistance (functional)	50g
Shock resistance (destructive	e) 100g
Terminal type	PCB Mounting
Weight	appr. 37.5g
Packaging/unit	200pcs/carton
1) 10 55Hz	

## **Dimensions**



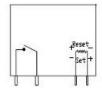




# Power Latching Relay EW60 (Continued)

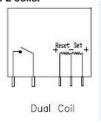
## Wire Connection drawing

#### bistable 1 coil:

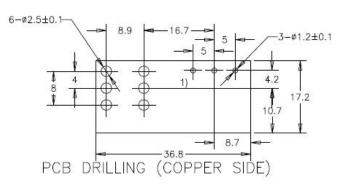


Single Coil

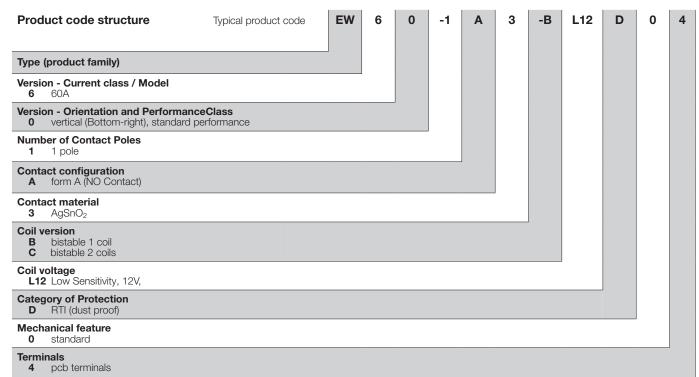
### bistable 2 coils:



## 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
EW60-1A3-BL24D04	Vertical	24V Bistable, 1 Coil 1.5W	AgSnO <sub>2</sub>	2071366-3
EW60-1A3-CL24D04	Vertical	24V Bistable, 2 Coils 3W	AgSnO <sub>2</sub>	2071366-4

Other types on request