

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 ₂
Initial voltage drop	≤1mΩ @ 3A, 12V
Frequency of operation with/without load	360/3600h ⁻¹

Contact ratings

Type	Contact	Load	Cycles
UL508			
EW60-1A3	NO	60A, 250VAC, resistive, 70°C	1x10 ⁴ 1)
EW60-1A3	NO	60A, 250VAC, general use, 70°C	6x10 ³
EW60-1A3	NO	120VAC, 1HP (horsepower) 23°C	1x10 ⁴
EW60-1A3	NO	16 or 20A, electr. ballast, 70°C	50x10 ³
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
	VDČ	VDČ	VDČ	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 _{rms}
between contact and coil	$4000V_{rms}$
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

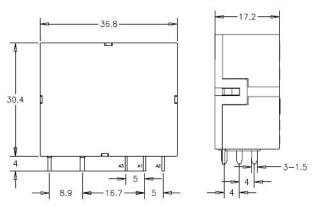
Other Data

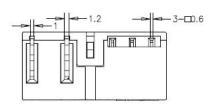
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

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

^{1) 10...55}Hz

Dimensions



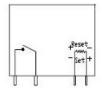




Power Latching Relay EW60 (Continued)

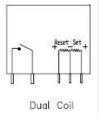
Wire Connection drawing

bistable 1 coil:

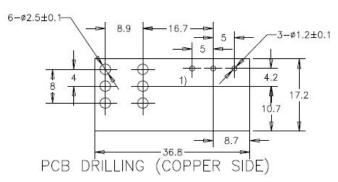


Single Coil

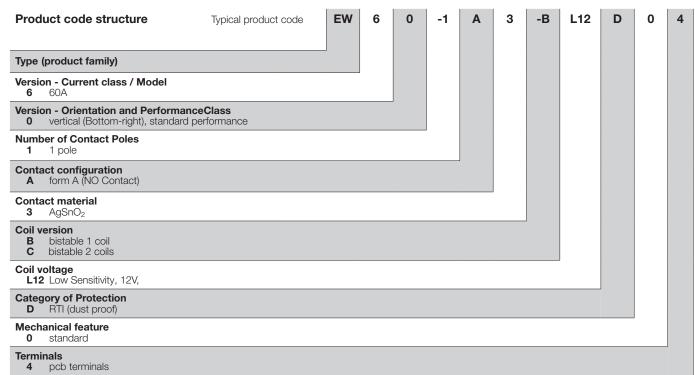
bistable 2 coils:



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 ₂	2071366-1
EW60-1A3-CL12D04	Vertical	12V Bistable, 2 Coils 3W	AgSnO ₂	2071366-2

Other types on request