

Power Latching Relay EW80

- 1 pole 80A, 1 form A (NO) contact
- Polarized bistable (latching), single coil version
- **■** Shunt implementation optional
- **■** Various terminal configurations



Typical applications Electricity meters, pre-paid power meters



ApprovalsUL E58304; CQC 09002031473

Contact Data		
Contact arrangement	1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	440VAC	
Rated current	80A	
Breaking capacity max.	20kVA	
Contact material	AgSnO ₂	
Initial voltage drop	≤80mV @ 80A	
Frequency of operation with/without load	360/3600h ⁻¹	

Contact ratings - UL508

Load	Cycles	
80A, 250VAC, resistive, 70°C	10 ³	
TV-20, 120VAC, 70°C	25x10 ³	
Mechanical endurance	10 ⁶	

Coil Data	
Magnetic system	polarized, bistable (latching)
Coil voltage range	5 to 24VDC
Min./Max. energization duration	100ms/1min at <10% duty factor

Coil versions, bistable 1 coil

Coil	Rated	Set	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	W
B005	5	4	4	25	1
B006	6	4.8	4.8	36	1
B009	9	7.2	7.2	81	1
B012	12	9.6	9.6	144	1
B024	24	19.2	19.2	576	1

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		
coil terminals	A1	A2
Pull-in	-	+
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

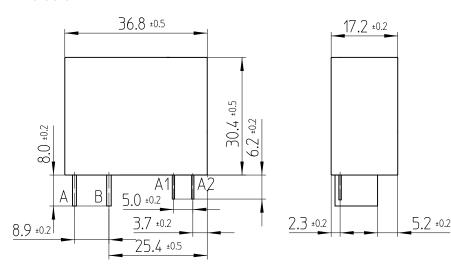
<u>VV VV</u>	w.te.com/customersupport/forissupportcenter
Ambient temperature	-40 to 70°C
Category of environmental pre	otection
IEC 61810	RTI (dust protected)
Vibration resistance (functional	al) 1.5mm double amplitude ¹⁾
Shock resistance (functional)	50g
Shock resistance (destructive	100g
Terminal type	Lugs and PC terminals
Weight	40g
Packaging/unit	tray/25 pcs., box/100 pcs.

1) 10...55Hz



Power Latching Relay EW80 (Continued)

Dimensions



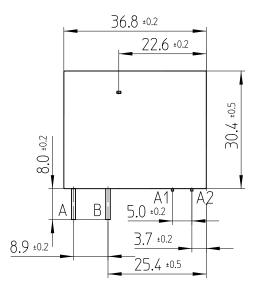
Vertical version, straight terminals

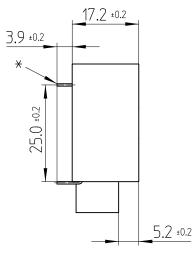
Contact terminals: A: 11x1.0mm B: 11x1.2mm

Coil terminals:

0.6 x0.6mm







Horizontal version, straight terminals

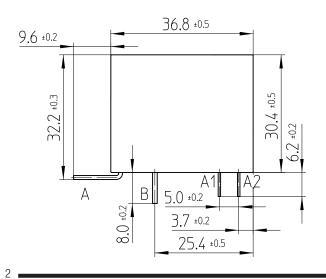
Contact terminals: A: 11x1.0mm

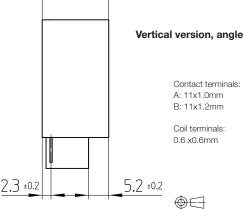
B: 11x1.2mm

Coil terminals: 0.6 x0.6mm

* auxiliary solder point 0.6 x1.0





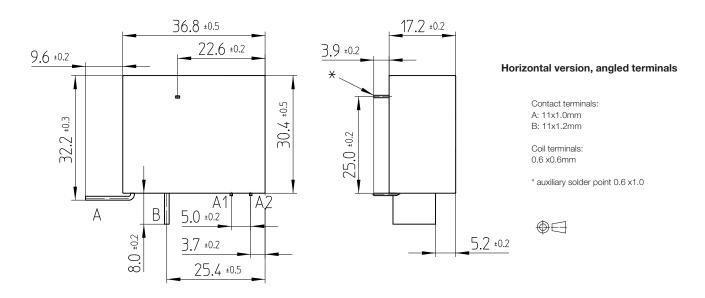


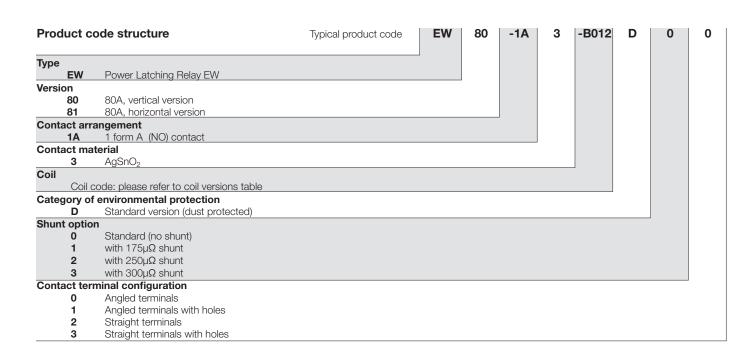
17.2 ±0.2



Power Latching Relay EW80 (Continued)

Dimensions





Product code	Version	Design	Coil	Contact terminals	Part Number
EW80-1A3-B012D02	80A, 1 form A contact, dust protected	vertical	12V bistable	straight, no holes	2071239-4
EW80-1A3-B024D02			24V bistable		2071239-5
EW80-1A3-B005D00			5V bistable	angled, no holes	2071224-1
EW80-1A3-B006D00			6V bistable		2071224-2
EW80-1A3-B009D00			9V bistable		2071224-3
EW80-1A3-B012D00			12V bistable		2071224-4
EW80-1A3-B024D00			24V bistable		2071224-5

Other types on request

This list represents the most common types and does not show all variants covered by this data sheet.

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