

Electronics

SCHRACK

Miniature PCB Relay PE bistable

- 1pole 5 A, polarized bistable version
- 1 CO contact
- Sensitive version with 200 mW coil
- 4 kV coil-contact, Insulation according to IEC 255
- Ambient temperature 70 °C
- Low height 10.0 mm
- RoHS compliant (Directive 2002/95/EC) as per product date code 0352

Applications

Room thermostats, electricity meters, domotic devices, white goods, battery powered controls



F0221-A

Approvals

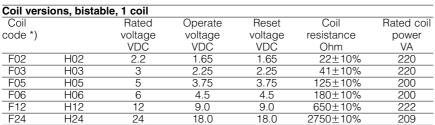
REG.-Nr. 6656, **c 72 us** E214025
Technical data of approved types on request

Contact data	
Contact configuration	1 CO contact
Contact set	single contact
Type of interruption	micro disconnection
Rated current	5 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	1250 VA
Contact material	AgNi90/10
Mechanical endurance	5x10 ⁶ cycles
Rated frequency of operation with / without load	6 / 1200 min ⁻¹

Contact ratings					
Type	Load	Cycles			
PE014	5A, 250 VAC, 85°C, resistive load, 6 min ⁻¹ , 50% df, EN61810-1	1x10 ⁵			
PE014	5A, 240 VAC resistive load, on NO or NC contact, UL508	1x10 ⁵			
PE014	5A, 30VDC resistive, 85°C, 6 min ⁻¹ , 50% duty factor, EN61810-1	1x10 ⁵			

Coil data		
Rated coil voltage range	2,248 VDC	
Coil power	typ. 200 mW	
Operative range	2	
Reset voltage maximum, % of rated coil voltage	120% at -40°C	
Minimum energization duration	20 ms	

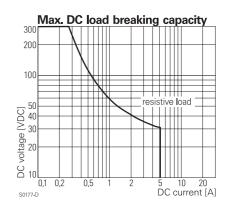
Information on reduced pulse duration with higher energization voltages on demand Maximum energization duration 1 min at <10% duty factor

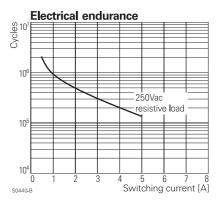


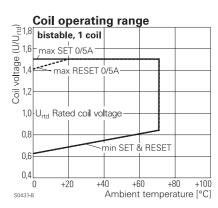
All figures are given for coil without preenergization, at ambient temperature +23°C
*) Coil codes F. and H. have opposite polarity; refer to coil operation table
Other coil voltages on request

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Colls - operation					
Version	F			H	
Coil terminals	A1	A2	A1	A2	
Operate	+	-	-	+	
Reset	-	+	+	-	
Contact position not defined at delivery					











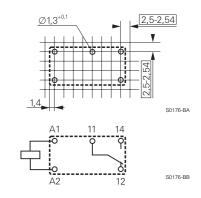
Electronics

Miniature PCB Relay PE bistable (Continued)

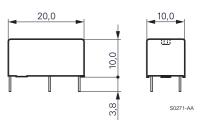
Insulation					
Dielectric strength coil-contact circuit	4000	0 V _{rms}			
open contact circuit	1000	O V _{rms}			
Clearance / creepage coil-contact circuit	≥ 3,2	/ 4 mm			
Material group of insulation parts	Į.	lla			
Tracking index of relay base PTI 250					
Insulation to IEC 60664-1					
Type of insulation coil-contact circuit	ba	asic			
open contact circuit					
Rated insulation voltage	Rated insulation voltage 250 V				
Pollution degree	3	2			
Rated voltage system 230 V 400 \					
Overvoltage category III					

Other data RoHS - Directive 2002/95/EC compliant as per product date code 0352 Flammability class according to UL94 V-0 Ambient temperature range -40...85°C, 70°C at 100% duty factor > 1<u>00 g</u> Shock resistance (destruction) RTII - flux proof Category of protection (RTIII - wash tight on request) 270°C / 10 s 5 g Resistance to soldering heat flux-proof version Relay weight Packaging unit 25/500 pcs

PCB layout / terminal assignment Bottom view on solder pins



Dimensions



Product key	PF	0	1	4	
Туре					
Version					
0 flux proof					
Contact configuration					
1 1 CO contact					
Contact material					
4 AgNi 90/10					
Coil					
Coil code: please refer to coil versions table					

Product key	Version	Contacts	Contact material	Coil	Coil	Part number
PE014F02	flux proof	1 CO contact	AgNi 90/10	bistable	2.2 VDC	9-1415389-1
PE014F03	·			1-coil	3 VDC	0-1415390-1
PE014F05				polarity F	5 VDC	1-1415390-1
PE014F06				200 mW	6 VDC	2-1415390-1
PE014F12					12 VDC	3-1415390-1
PE014F24					24 VDC	5-1415390-1
PE014H02				bistable	2.2 VDC	7-1415390-1
PE014H03				1-coil	3 VDC	8-1415390-1
PE014H05				polarity H	5 VDC	9-1415390-1
PE014H06				200 mW	6 VDC	0-1415391-1
PE014H12					12 VDC	1-1415391-1
PE014H24					24 VDC	2-1415391-1

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