

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-Δ

Approvals

VDE REG.-Nr. 6656, **c ₹11 us** E214025 Technical data of approved types on request

Contac	t data
Contact	configuration
Contact	cot

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

Contac	t rati	ngs

Туре	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

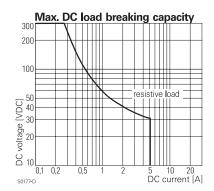


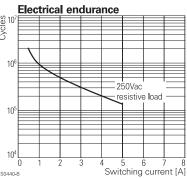
Coil vers	ions, bistal	ole, 1 coil				
Coil		Rated	Operate	Reset	Coil	Rated coil
code *)		voltage	voltage	voltage	resistance	power
		VDČ	VDČ	VDČ	Ohm	VA
F02	H02	2.2	1.65	1.65	22±10%	220
F03	H03	3	2.25	2.25	41±10%	220
F05	H05	5	3.75	3.75	125±10%	200
F06	H06	6	4.5	4.5	180±10%	200
F12	H12	12	9.0	9.0	650±10%	222
F24	H24	24	18.0	18.0	2750±10%	209

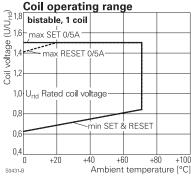
All figures are given for coil without preenergization, at ambient temperature +23°C *) Coil codes F.. and H..have opposite polarity; refer to coil operation table Óther coil voltages on request

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







Datasheet Issued 01/2005 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.





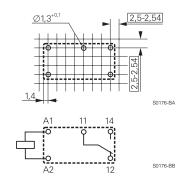
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Miniature PCB Relay PE bistable (Continued)

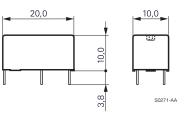
Insulation			
Dielectric strength coil-contact circuit	400	00 V _{rms}	
open contact circuit	100	00 V _{rms}	
Clearance / creepage coil-contact circuit	≥ 3,2 / 4 mm		
Material group of insulation parts	Illa		
Tracking index of relay base	PTI 250		
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	b	asic	
open contact circuit	func	ctional	
Rated insulation voltage	250 V		
Pollution degree	3	2	
Rated voltage system	230 V	400 V	
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 Shock resistance (destruction) > 100 g RTII - flux proof Category of protection (RTIII - wash tight on request) Resistance to soldering heat flux-proof version 270°C / 10 s Relay weight 5 g 25/500 pcs Packaging unit

PCB layout / terminal assignment Bottom view on solder pins



Dimensions



Product key 1 4 Ε 0 Type Version flux proof Contact configuration 1 1 ČO 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

'Schrack' section.