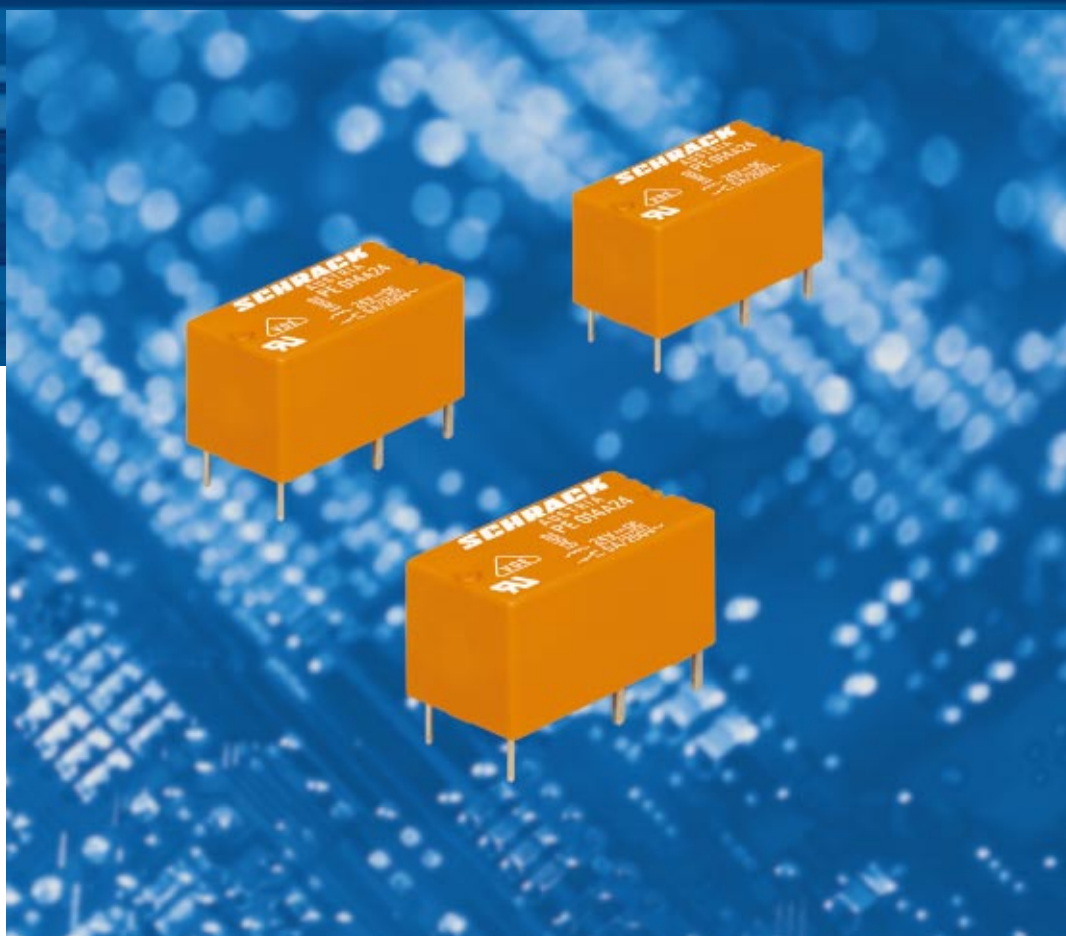


PE bistable - small, strong, smart



Miniature PCB Relay PE bistable

1pole 5 A, polarized bistable version



Features

- 1 C/O contact
- Cadmium-free contacts
- 4 kV coil-contact
- Insulation according to IEC 255
- Ambient temperature 70 °C
- Low height 10.0 mm

Applications

Room thermostats, electricity meters, domotic devices and white goods

F0221-bc

in process   

Technical data of approved types on request

Contact data

Configuration	1 C/O contact
Type of contact	single contact
Rated current	5 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	1250 VA
Contact material	AgNi 90/10

Contact ratings

Type	Load	Operations	Standard
PE 014	5A, 250 Vac, on the C/O contact	10 ⁵	VDE 0435

Coil data

Nominal voltage	3...48 Vdc
Nominal coil power	typ. 360 mW
Minimum energization time	20 ms
Information on reduced pulse duration with higher energization voltages on demand	
Maximum energization time	<1 min at <10% duty cycle
Reset voltage max.	120 % U _{nom} at -40 °C

Coil versions, bistable, 1 coil

Coil code*	Nominal voltage Vdc	Pull-in voltage Vdc	Reset voltage Vdc	Coil resistance Ω	Coil current mA	
A02	C02	2.2	1.65	1.65	13±10%	163.0
A03	C03	3	2.25	2.25	25±10%	120.0
A05	C05	5	3.75	3.75	69±10%	72.0
A06	C06	6	4.5	4.5	100±10%	60.0
A12	C12	12	9.0	9.0	400±10%	30.0
A24	C24	24	18.0	18.0	1600±10%	15.0

All figures are given for coil without preenergization, at ambient temperature +20°C

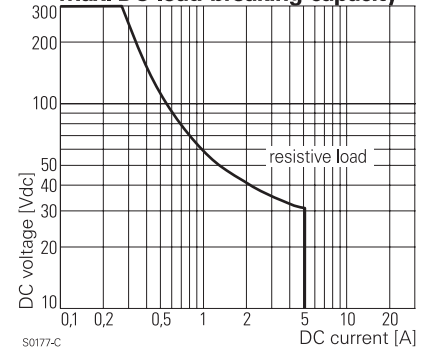
* Coil codes A.. and C.. have opposite polarity; refer to coil operation table

Other coil voltages on request

Coils - operation

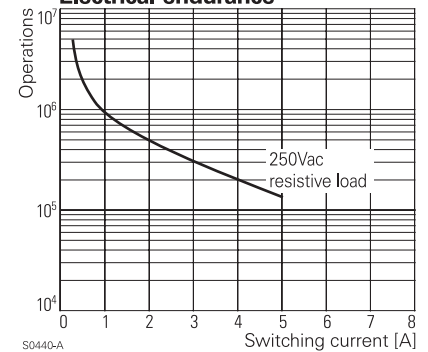
version	A..		C..	
coil terminals	A1	A2	A1	A2
pull-in	+	-	-	+
reset	-	+	+	-
Contact position not defined at delivery				

Max. DC load breaking capacity



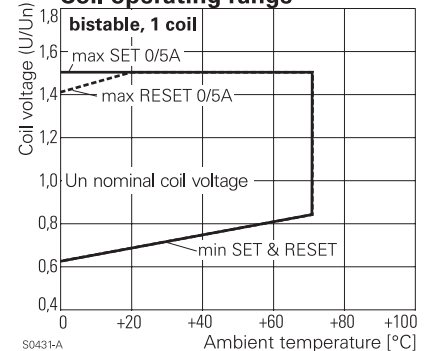
S0177-C

Electrical endurance



S0440-A

Coil operating range



S0431-A

Miniature PCB Relay PE bistable

1pole 5 A, polarized bistable version

Insulation

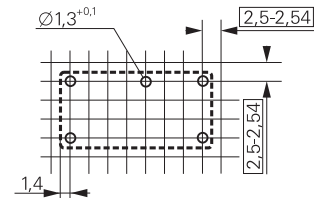
Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
Clearance / creepage		≥3.2 / 4 mm
Insulation to IEC 60664		
Voltage rating		250 V
Pollution degree		3
Overtoltage category		III
Tracking resistance of relay base		CTI 250

Other data

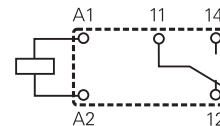
Flammability class according to UL 94	V-0
Ambient temperature	-40...+70 °C
Mechanical life	5x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 1200 min ⁻¹
Shock resistance (destruction)	>100 g
Category of protection (IEC 61810)	RT II - flux proof (RT III - wash tight, on request)
Relay weight	5 g
Packaging unit	25 / 500 pcs.

PCB layout / terminal assignm

View on solder pins
Dimensions in mm



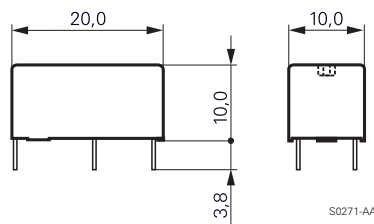
S0176-BA



S0176-BB

Dimensions

Dimensions in mm



S0271-AA

Product key

Type

Version

0 flux proof *)

Contacts

1 1 C/O contact

Contact material

4 AgNi 90/10

Coil

Coil code: please refer to coil versions table



*) washable version on request

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
PE014A03	flux proof	1 C/O contact	AgNi 90/10	bistable	3 Vdc	4-1415064-1
PE014A05				1-coil	5 Vdc	7-1415063-1
PE014A06				polarity A	6 Vdc	3-1415053-1
PE014A12					12 Vdc	8-1415063-1
PE014A24					24 Vdc	9-1415063-1
PE014C03				bistable	3 Vdc	5-1415064-1
PE014C05				1-coil	5 Vdc	3-1415064-1
PE014C06				polarity C	6 Vdc	2-1415064-1
PE014C12					12 Vdc	1-1415064-1
PE014C24					24 Vdc	0-1415064-1

Tyco Electronics Schrack in your area

Austria

Tyco Electronics Austria GmbH.
Pilzgasse 33
A-1210 Wien
Phone +43 (1) 90560-0
Fax +43 (1) 90560 - 1333

Belgium

Tyco Electronics AMP
EC Belgium
Diestsesteenweg 692
B-3010 Kessel - Lo
Phone +32 (16) 35 23 00
Fax +32 (16) 35 23 53

Czech Republic

Tyco Electronics Czech s.r.o.
K Amp 1293
CZ-664 34 Kurim
Phone +42 (5) 41162 111
Fax +42 (5) 41162 223

Denmark

Tyco Electronics Denmark AS
Gunnar Clausens vej 36
DK-8260 Viby J
Phone +45 70 15 52 00
Fax +45 86 29 51 33

Estonia

Tyco Electronics
Järvevana tee 9
EE-11314 Tallinn
Phone +372 65 05 474
Fax +372 65 05 470

Finland

Tyco Electronics Finland OY
PL 100 (Konalantie 47F)
FIN-00391 Helsinki
Phone +358 (9) 512 34 20
Fax +358 (9) 512 34 250

France

Tyco Electronics
29 Chaussée Jules César
BP 39
F-95301 Cergy-Pontoise Cedex
Phone +33 (1) 34 20 82 12
Fax +33 (1) 34 20 82 22

Germany

Tyco Electronics AMP GmbH
Ampèrestr. 7-11
D-63225 Langen
Phone +49 (6103) 709-0
Fax +49 (6103) 709 1223

Great Britain

Tyco Electronics UK Ltd.
Merrion Avenue
Stanmore, Middlesex, HA7 4RS
GB-United Kingdom
Phone +44 (20) 8954 2356
Fax +44 (20) 8420 8087

Greece

Tyco Electronics Hellas
M.e.p.e.
223, A. Syngrou Ave.
GR-17122 Nea Smyrni
Athens
Phone +30 (1) 9370396
Fax +30 (1) 9370655

Hungary

Tyco Electronics Hungary
Manufacturing Ltd.
Grassalkovich ut 255
H-1239 Budapest
Phone +36 (1) 289 1000
Fax +36 (1) 289 1010

Ireland

AMP Ireland Limited
Ballycoolin Business Park,
Blanchardstown
IRL-Dublin 15
Phone +353 (1) 820 3000
Fax +353 (1) 820 9790

Italy

Tyco Electronics AMP Italia S.p.A.
Corso Fratelli Cervi 15
I-10093 Collegno (TO)
Phone +39 (011) 401 21 11
Fax +39 (011) 403 11 16

Netherlands

Tyco Electronics Nederland B.V.
Rietfildinweg 32
NL-5201 AG's-Hertogenbosch
Phone +31 (73) 62 46-246
Fax +31 (73) 62 46 935

Norway

Tyco Electronics Norway AS
Box 74 (Holmengata 24)
N-1378 Nesbru
Phone +47 (66) 77 88 99
Fax +47 (66) 77 88 55

Poland

AMP Polska sp.zo.o.
ul. Postepu 2
PL-02-676 Warsaw
Phone +48 (22) 54 90 888
Fax +48 (22) 54 90 880

Spain and Portugal

Tyco Electronics AMP Espana S.A.
Muntaner 249,5 planta
E-08021 Barcelona
Phone +34 932 910 330
Fax +34 932 017 879

Sweden

Tyco Electronics Svenska AB
PO Box 619 (Kanalvägen 10C, 7 tr.)
SE-194 26 Upplands Väsby
Phone +46 (8) 50 72 50 00
Fax +46 (8) 50 72 50 01

Switzerland

Tyco Electronics (Schweiz AG)
Ampèrestrasse 3
CH-9323 Steinach
Phone +41 (71) 447 0 447
Fax +41 (71) 447 0 400

Turkey

Tyco Electronics Turkey
AMP Elektrik-Elektronik LTD
Buyukdere Cad. Yapi Kredi Plaza B-BLOK
TR-KAT 10 Levent 80620 Istanbul
Phone +90 (212) 281 8181
Fax +90 (212) 281 8184

Tyco Electronics Schrack:
www.schrackrelays.com

tyco / *Electronics*

Issued by
Tyco Electronics Austria GmbH
Pilzgasse 33, A-1210 Vienna

© Tyco Electronics Austria GmbH 2002
All Rights Reserved. Terms of delivery and
rights to change design reserved.

Ref.-No. 1308101

Edition: 03/2002 5.000 WM: 90201175
Printed in Austria