

Power Relay 410 63 125°C

- 1 pole 16 A, 1 NO or 1 NC contact
- Switching capacity 4000 VA
- Coil power 360 mW
- 4 kV / 8 mm coil-contact, insulation to VDE 0631 and 0700
- Ambient temperature up to 125°C
- Quick connect terminals for load side
- WG version: Materials in accordance to IEC 60335-1
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0349

Applications

White goods appliances, oven control, electric heating, power supplies, air conditioning, motors, magnetic valves



F0248-AA

Approvals

VDE REG.-Nr. 3725, **CE** us E214025
Technical data of approved types on request

Contact data

Contact configuration	1NO or 1NC
Contact set	single contact
Type of interruption	micro disconnection
Rated current	16 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting making capacity, max 4 s, duty factor 10%	25 A
Contact material	AgCdO, AgNi
Mechanical endurance	1x10 ⁶ cycles
Rated frequency of operation with / without load	10 / 600 min ⁻¹

Contact ratings

Type	Load	Cycles
NO contact	16 A, 250 VAC, resistive, 125°C	1x10 ⁵
NO contact	12 A, 250 VAC, resistive, 70°C	4,5x10 ⁵
NC contact	16 A, 250 VAC, resistive, 125°C	1,5x10 ⁵
NO contact	10 A, 400 VAC, resistive, 125°C	5x10 ⁴
NO contact	12 A, 250 VAC, cosφ=0.6, 125°C	5x10 ⁴

Coil data

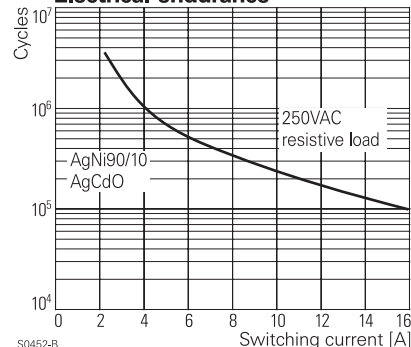
Rated coil voltage DC coil	6...60 VDC
Coil power DC coil	typ. 360 mW
Operative range	1
Coil insulation system according UL1446	Class F

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
054	6	3.6	0.45	100±10%	360
053	9	5.5	0.68	230±10%	352
050	12	7.3	0.9	400±10%	360
046	24	14.6	1.8	1600±10%	360
043	48	29.2	3.6	6400±10%	360
042	60	36.5	4.5	10000±10%	360

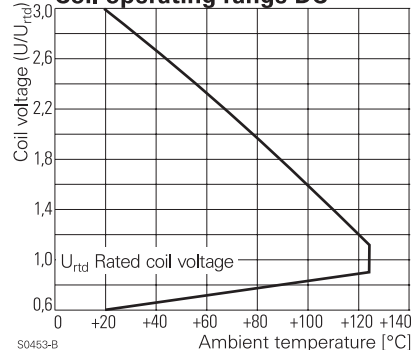
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Electrical endurance



S0452-B

Coil operating range DC



S0453-B

Power Relay 410 63 125°C (Continued)

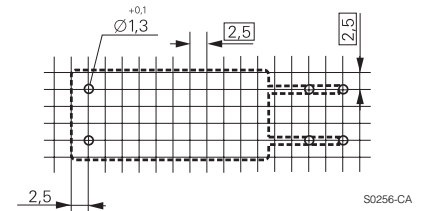
Insulation

Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

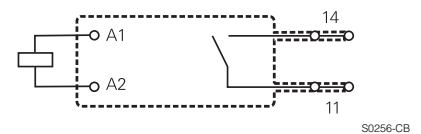
Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60335-1	> 850 °C
GWT to IEC 60335-1	> 750 °C
Ambient temperature range	-20...+125°C
Operate- / release time	typ 10 / 5 ms
Bounce time NO / NC contact	typ 3 ms
Category of protection	RTII - flux proof
Mounting	pcb
Resistance to soldering heat	270°C / 10 s
Relay weight	24 g
Packaging unit	20 / 75 / 1050 pcs

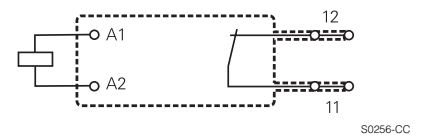
PCB layout / terminal assignment
Bottom view on solder pins



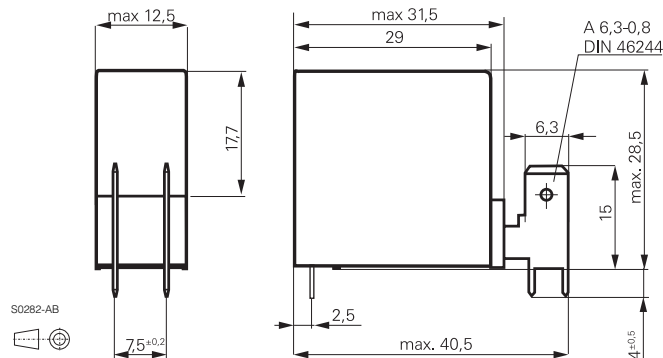
1 NO contact



1 NC contact



Dimensions



Product key

0 4 1 0 6 3

Type

Coil

Coil code: please refer to coil versions table, preferred types in bold print

Version

001 1 NO contact, AgCdO

002 1 NC contact, AgCdO

005 1 NO contact, AgNi

006 1 NC contact, AgNi

Version

Blank Standard version

WG Product in accordance with IEC 60335-1 (domestic appliances)

Other types on request

Product key	Version	Cont. material	Cont.configuration	Coil	Part number
0410 63 050 001	standard	AgCdO	1 NO contact	12 VDC	3-1415410-4
0410 63 046 001	PCB terminals			24 VDC	3-1415410-0
0410 63 050 002	quick connect term.		1 NC contact	12 VDC	3-1415410-5