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**

F0248-BA

Applications

White goods appliances, oven control, electric heating, power suppplies, air conditionning, motors, magnetic valves

Approvals

VDE REG.-Nr. 3725, cULus E214025
Technical data of approved types on request

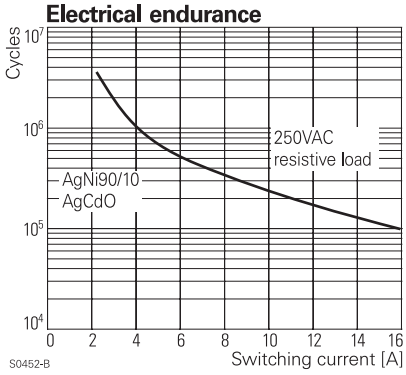
Contact data

Contact configuration	1NO or 1NC
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	16 A
Limiting making capacity, max 4 s, duty factor 10%	25 A
Contact material	AgCdO, AgNi
Rated frequency of operation with / without load	10 / 600 min^{-1}

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
410 63 ... 001	NO	16 A, 250 VAC, cosφ=1	125°C	50x10^3
410 63 ... 001	NO	12 A, 250 VAC, cosφ=1	125°C	200x10^3
410 63 ... 001	NO	16 A, 250 VAC, cosφ=1	105°C	100x10^3
410 63 ... 002	NC	16 A, 250 VAC, cosφ=1	125°C	50x10^3
410 63 ... 005	NO	16 A, 250 VAC, cosφ=1	125°C	50x10^3
410 63 ... 005	NO	12 A, 250 VAC, cosφ=1	125°C	200x10^3
410 63 ... 005	NO	16 A, 250 VAC, cosφ=1	105°C	100x10^3
410 63 ... 006	NC	16 A, 250 VAC, cosφ=1	125°C	50x10^3

Electrical endurance



Coil data

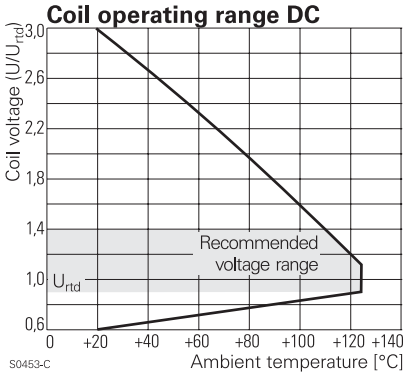
Rated coil voltage DC coil	6...60 VDC
Operative range to IEC 61810	1
Coil insulation system according UL1446	Class F

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

Coil operating range DC



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

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com in the 'Schrack' section.

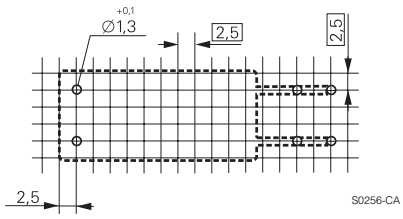
Specifications subject to change.

Power Relay 410 63 125°C (Continued)

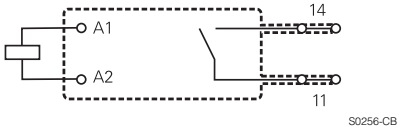
Insulation	
Dielectric strength coil-contact circuit	4000 V_{rms}
open contact circuit	1000 V_{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 / 400 V
Overvoltage category	III

Other data	
Mechanical endurance	1x10^6 cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Resistance to heat and fire, WG version	according EN60335, par.30
Environment	
Ambient temperature range	-20...+125°C
Category of protection	RTII - flux proof
Processing	
Mounting	pcb
Resistance to soldering heat	270°C / 10 s
Relay weight	24 g
Packaging unit	1050 pcs

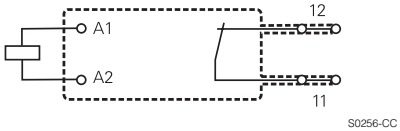
PCB layout / terminal assignment
Bottom view on solder pins



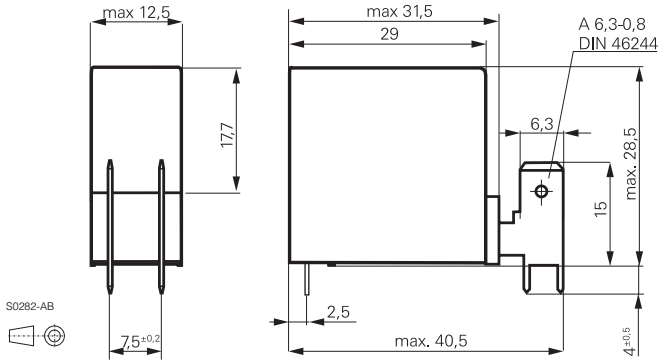
1 NO contact



1 NC contact



Dimensions



Product key Typical product key **041063 050 001**

Type
41063 Power Relay 410 63 125°C

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

Version

001	1 NO contact (1 form A), AgCdO	**002**	1 NC contact (1 form B), AgCdO
005	1 NO contact (1 form A), AgNi	**006**	1 NC contact (1 form B), 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

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