

Power Relay 41063 125°C

- 1 pole 16A, 1 form A (NO) or 1 form B (NC) contact
- Switching capacity 4000VA
- Coil power 360mW
- 4kV/8mm 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

Typical applications

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



F0248-BA



Approvals

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

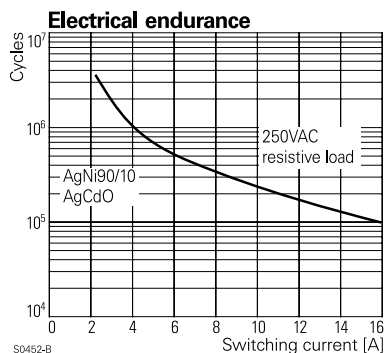
Contact Data

Contact arrangement	1 form A (NO) or 1 form B (NC)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limiting making current, form A contact, max. 4s, duty factor 10%	25A
Breaking capacity max.	4000VA
Contact material	AgNi, AgCdO
Frequency of operation, with/without load	600/36000h ⁻¹

Contact ratings

Type	Contact	Load	Cycles
IEC61810			
410 63 ... 001	A (NO)	16A, 250VAC resistive, 125°C	50x10 ³
410 63 ... 001	A (NO)	12A, 250VAC resistive, 125°C	200x10 ³
410 63 ... 001	A (NO)	16A, 250VAC resistive, 105°C	100x10 ³
410 63 ... 002	B (NC)	16A, 250VAC resistive, 125°C	50x10 ³
410 63 ... 005	A (NO)	16A, 250VAC resistive, 125°C	50x10 ³
410 63 ... 005	A (NO)	12A, 250VAC resistive, 125°C	200x10 ³
410 63 ... 005	A (NO)	16A, 250VAC resistive, 105°C	100x10 ³
410 63 ... 006	B (NC)	16A, 250VAC resistive, 125°C	50x10 ³

Mechanical endurance >1x10⁶ operations



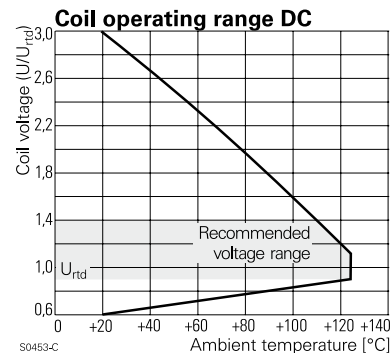
Coil Data

Coil voltage range	6 to 60VDC
Operative range, 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 $\Omega \pm 10\%$	Rated coil power mW
054	6	3.6	0.45	100	360
053	9	5.5	0.68	230	352
050	12	7.3	0.9	400	360
046	24	14.6	1.8	1600	360
043	48	29.2	3.6	6400	360
042	60	36.5	4.5	10000	360

All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.



Insulation Data

Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250V

Power Relay 41063 125°C (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content
refer to the Product Compliance Support Center at
www.tycoelectronics.com/customer-support/rohssupportcenter

Resistance to heat and fire

WG version according EN60335-1, par.30

Ambient temperature	-20 to +125°C
---------------------	---------------

Category of environmental protection

IEC 61810 RTII - flux proof

Terminal type	PCB-THT, quick connect for load side
---------------	--------------------------------------

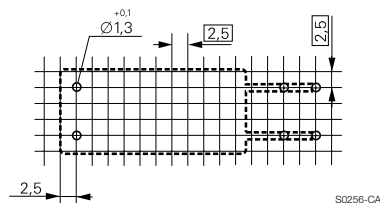
Weight	24
--------	----

Resistance to soldering heat THT	270°C/10s
IEC 60068-2-20, flux proof version	

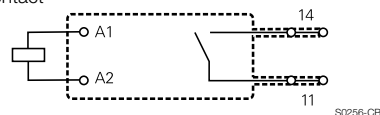
Packaging/unit	tray/75 pcs., box/1050 pcs.
----------------	-----------------------------

PCB layout / terminal assignment

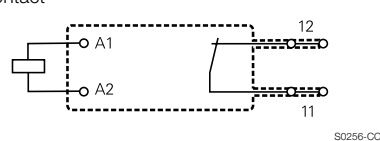
Bottom view on solder pins



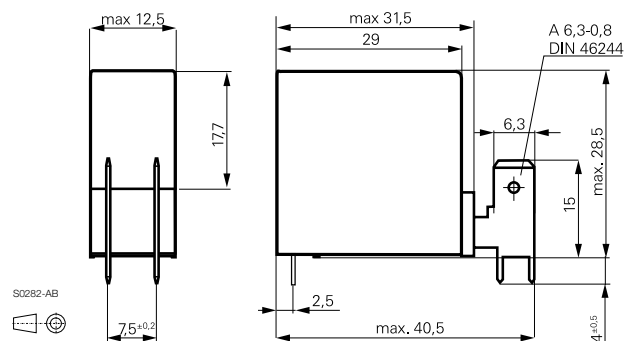
1 form A (NO) contact



1 form B (NC) contact



Dimensions



Product code structure

Typical product code **041063** | **050** | **001**

Type

41063 Power Relay 410 63 125°C

Coil

Coil code: please refer to coil versions table

Version

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

Version

Blank Standard version

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

Other types on request

Product code	Contact arrangement	Contact material	Coil	Version	Part number
0410 63 043 005WG	1 form A (NO) contact	AgNi	48VDC	IEC60335-1 compliant	6-1415536-5
0410 63 046 001		AgCdO	24VDC		3-1415410-0
0410 63 046 002		1 form B (NC) contact			7-1415534-5
0410 63 050 001	1 form A (NO) contact		12VDC	3-1415410-4	
0410 63 050 005WG		AgNi		IEC60335-1 compliant	9-1415535-3
0410 63 053 001		AgCdO	9VDC	Standard	3-1415410-7
0410 63 054 001			6VDC		3-1415410-9
0410 63 054 006WG	1 form B (NC) contact	AgNi		IEC60335-1 compliant	7-1415536-6

This list represents the most common types and does not show all variants covered by this datasheet.
Other types on request