

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



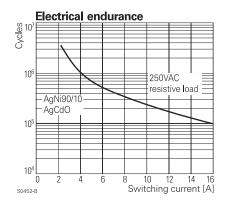
| Approvals | |
|---|--|
| VDE REGNr. 3725, UL E214025 | |
| Technical data of approved types on request | |

| 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 loa | ad 600/36000h ⁻¹ |

Contact ratings

| oontaot ratingo | , | | |
|-----------------|---------|------------------------------|---------------------|
| 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 |
| | | | |

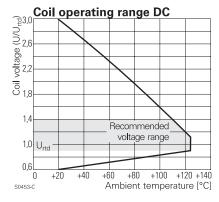
Mechanical endurance >1x10⁶ operations



| Coil Data | | |
|---|------------|--|
| Coil voltage range | 6 to 60VDC | |
| Operative range, IEC 61810 | 1 | |
| Coil insulation system according UL1446 | class F | |

| Coil ver | sions, DC co | il | | | |
|----------|--------------|---------|---------|------------|------------|
| Coil | Rated | Operate | Release | Coil | Rated coil |
| code | voltage | voltage | voltage | resistance | power |
| | VDC | VDC | VDC | Ω±10% | 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 | Illa | |
| 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.te.com/customersupport/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 24g

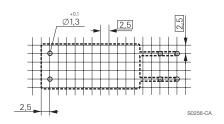
Resistance to soldering heat THT

IEC 60068-2-20, flux proof version 270°C/10s

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

PCB layout / terminal assignment

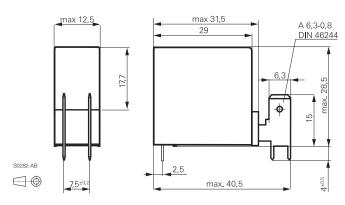
Bottom view on solder pins



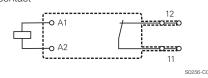
1 form A (NO) contact



Dimensions



1 form B (NC) contact



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

1 form A contact (1 NO), AgCdO 1 form B contact (1 NC), AgCdO 001 002 005 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 | Standard | 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

Mouser Electronics

Authorized Distributor

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<u>TE Connectivity</u>: 3-1415410-0