

Power Relay 41083 3mm

- 1 pole 16A, 1 form X, double make, bridging contact
- Contact gap >3mm
- Switching capacity 4000VA
- Coil power 360mW
- 4kV/8mm coil-contact, insulation to VDE 0631 and 0700
- Ambient temperature 85°C; max. 105° at 10A
- Quick connect terminals for load side
- Materials in accordance to IEC 60335-1

Typical applications

Washing machines, tumble dryers, absolute safe power supply disconnection in other domestic applications



E0248-BB



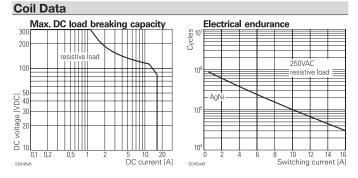
Approvals	
VDE REGNr. 6198, UL E214025	
Technical data of approved types on request	

Contact Data	
Contact arrangement	1 form X, double make (NO)
Contact gap	>3mm/full disconnection
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limiting making current, max. 4s, du	ty factor 10% 20A
Breaking capacity max.	4000VA
Contact material	AgNi
Contact style	single contact, bridging contact
Frequency of operation, with/without	t load 600/36000h-1

Contact ratings

Oontact ratings					
Type	Contact	Load	Cycles		
IEC 61810					
410 83	A (NO)	16A, 250VAC resistive, 85°C	30x10 ³		
410 83	A (NO)	10A, 250VAC resistive, 105°C	100x10 ³		
410 83	A (NO)	10A, 400VAC resistive, 105°C	100x10 ³		

Mechanical endurance

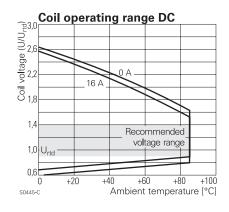


Coil voltage range	6 to 60VDC	
Operative range, IEC 61810	1	
Coil insulation system according UL1446	class F	

Coil versions, DC coil

	,	••			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
053	9	5.9	0.68	230	360
054	6	3.9	0.45	100	360
050	12	7.9	0.9	400	360
046	24	15.8	1.8	1600	360
043	48	31.6	3.6	6400	360
042	60	39.5	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	2000V _{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

>1x10⁶ operations



Power Relay 41083 3mm (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 +85°C max. +105°C at 10A

Category of environmental protection IEC 61810

Vibration resistance (functional),

RTII - flux proof

form A (NO), 10 to 500Hz Shock resistance (destructive) Terminal type

10g 100g PCB-THT, quick connect for load side 24g

Weight Resistance to soldering heat THT

IEC 60068-2-20, flux proof version

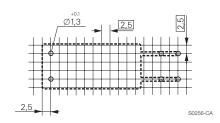
Packaging/unit

270°C/10s

tray/75 pcs., box/1050 pcs.

PCB layout / terminal assignment

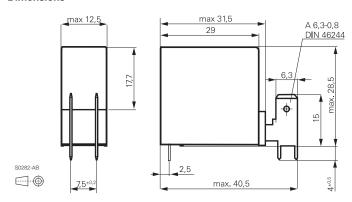
Bottom view on solder pins



1 form X, double make contact



Dimensions



Produ	ıct co	de structure	Typical product code	041083	050	001	WG
Туре							
	41083	Power Relay 410 83 3 mm					
Coil							
	Coil co	ode: please refer to coil versions table					
Version	n						
	001	1 form X. double make (NO) contact					
Version	n						
	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 83 046 001	1 form X	AgNi	24VDC	Standard	4-1415410-8
0410 83 046 001WG	double make (NO)			IEC60335-1 compliant	8-1415536-6
0410 83 050 001WG	3mm contact gap		12VDC		8-1415536-7
0410 83 053 001WG			9VDC		8-1415536-8
0410 83 054 001WG			6VDC		8-1415536-9

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