

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.



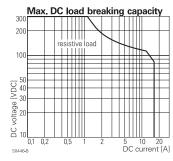
Approvals
VDE REGNr. 40001454, UL E214025
Technical data of approved types on request.

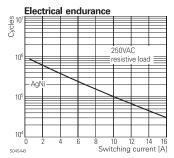
Contact Data	
Contact arrangement	1 form X, double make (NO)
Contact gap	>3mm/full disconnection
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limiting making current, max. 4s, dut	y factor 10% 20A
Breaking capacity max.	4000VA
Contact material	AgNi
Contact style	single contact,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

Contact ratings							
Туре	Contact	Load	Cycles				
IEC 61810							
410 83	A (NO)	16A, 250VAC resistive, 85°C	30x103				
410 83	A (NO)	10A, 250VAC resistive, 105°C	100x10 ³				
410 83	A (NO)	10A, 400VAC resistive, 105°C	100x10 ³				

Mechanical endurance

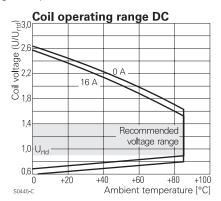
>1x10⁶ operations





Coil Data							
Coil volta	Coil voltage range 6 to 60VDC						
Operative	Operative range, IEC 61810			1			
Coil insul	nsulation system according UL1446			class F			
Coil vers	sions, DC co	il					
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω±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		
A 11 C		1.1					

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



Insulation Data

insulation bata		
Initial dielectric strength		
between open contacts	2500V _{rms}	
between contact and coil	4000V	
	1115	
Initial surge withstand voltage		
between contact and coil	8000V (1.2/50µs)	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	

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Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

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Downloaded from Arrow.com.



Power Relay 41083 3mm (Continued)

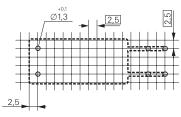
Other Data

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

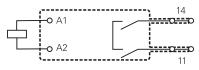
according EN60335-1, par.30
-20 to +85°C
max. +105°C at 10A
1
RTII - flux proof
10g
100g
PCB-THT, quick connect for load side
24g
n 270°C/10s
tray/75 pcs., box/1050 pcs.

PCB layout / terminal assignment

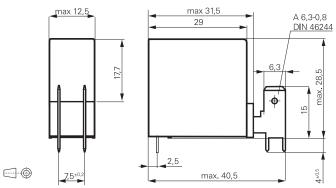
Bottom view on solder pins



1 form X, double make contact



Dimensions



Product code structure Typical product code 04			041083	050	001	WG
Туре						
4108	3 Power Relay 410 83 3 mm					
Coil						
Coil c	code: please refer to coil versions table					
Version						
001	1 form X. double make (NO) contact					
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 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.

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