

# Power Relay 410 83 3 mm

- 1 pole 16 A, 1 NO bridging contact
- Contact gap > 3 mm
- Switching capacity 4000 VA
- Coil power 360 mW
- 4 kV / 8 mm coil-contact, insulation to VDE 0631 and 0700
- Ambient temperature up to 85°C
- Quick connect terminals for load side
- Materials in accordance to IEC 60335-1



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



Contact data	
Contact configuration	1NO
Contact set	single contact, bridging contact
Type of interruption	full disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	16 A
Maximum breaking capacity AC	4000 VA
Limiting making capacity, max 4 s, duty factor 10%	6 20 A
Contact material	AgNi
Contact gap	>3 mm
Bated frequency of operation with / without load	10 / 600 min <sup>-1</sup>

Contact ratings							
Туре	Contact	Load	Ambient	Cycles			
			temp. [°C]				
<b>IEC 61810</b>							
410 83	NO	16 A, 250 VAC, cosφ=1	85°C	30x10 <sup>3</sup>			
410 83	NO	10 A, 250 VAC, cosφ=1	105°C	100x10 <sup>3</sup>			
410 83	NO	10 A, 400 VAC, cosφ=1	105°C	100x10 <sup>3</sup>			

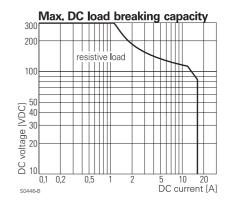
Coil data		
Rated coil voltage range DC coil	660 VDC	
Operative range to IEC 61810	1	
Coil insulation system according LII 1446	Class F	

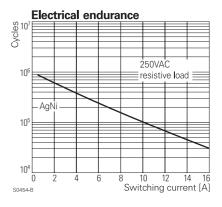
Coil versions, DC-coil								
Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	e power			
	VDC	VDC	VDC	Ohm	mW			
053	9	5.9	0.68	230±10%	360			
054	6	3.9	0.45	100±10%	360			
050	12	7.9	0.9	400±10%	360			
046	24	15.8	1.8	1600±10%	360			
043	48	31.6	3.6	6400±10%	360			
042	60	39.5	4.5	10000±10%	360			

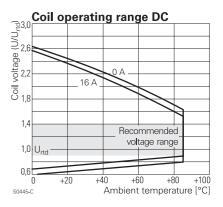
All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request



F0248-E









# Power Relay 410 83 3 mm (Continued)

Insulation			
Dielectric strength coil-contact circuit	4000 V <sub>rms</sub>		
open contact circuit	2000 V <sub>rms</sub>		
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm		
Material group of insulation parts	≥ IIIa		
Tracking index of relay base	PTI 250		
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	reinforced		
open contact circuit	full disconnection ≥ 3 mm		
Rated insulation voltage	250 V		
Pollution degree	3		
Rated voltage system	230 / 400 V		
Overvoltage category	III		

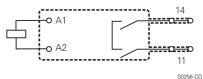
# 2.5 S0256-CA

PCB layout / terminal assignment

Bottom view on solder pins

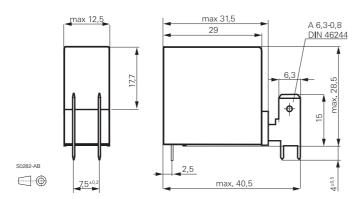
### Other data Mechanical endurance 1x10<sup>6</sup> cycles Material RoHS - Directive 2002/95/EC compliant as per product date code 0349 Resistance to heat and fire, WG version according EN60335, par.30 Environment -20...+85°C Ambient temperature range Vibration resistance (function) NO (10...500Hz) 10 ms 100 g Shock resistance (destruction) RTII - flux proof Category of protection Processing Mounting Resistance to soldering heat pcb 270°C / 10 s

## 1 NO bridging contact



# Dimensions

Relay weight Packaging unit



Produ	ct ke	<b>y</b> Typical product key	041083	050	001	WG
Туре	41083	Power Relay 410 83 3 mm				
Coil Code: please refer to coil versions table, preferred types in bold print						
Version	1				,	
	001	1 NO contact (1 form A)				
Version	1					
,	WG	Product in accordance with IEC 60335-1 (domestic appliances)				

24 g

1050 pcs

Product key	Version	Cont. material	Cont.configuration	Coil	Part number
0410 83 050 001 WG	standard	AgNi	1 NO contact	12 VDC	8-1415536-7
0410 83 053 001 WG	PCB/quick connect	G		9 VDC	8-1415536-8
0410 83 046 001 WG	•			24 VDC	8-1415536-6

Other types on request