- 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
- RoHS compliant (Directive 2002/95/EC) as per product date code 0349

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

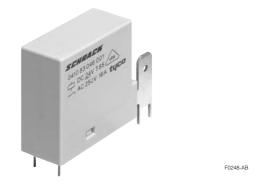
Approvals

REG.-Nr. 6198, **cPL** us E214025

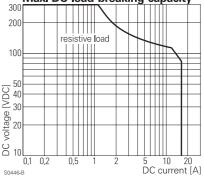
Technical data of approved types on request

Contract data

Contact data	
Contact configuration	1NO
Contact set	single contact, bridging contact
Type of interruption	full disconnection
Rated current	16 A
Rated voltage / max.switching voltage AC	240/400 VAC
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
Mechanical endurance	1x10 ⁶ cycles
Rated frequency of operation with / without load	10 / 600 min ⁻¹



Max. DC load breaking capacity



250VAC

resistive load

Switching current [A]

Electrical endurance

Cycles Cycles

106

10

S0454-B

Agl 10⁵

ontact ratings

Contact	laungs	
Туре	Load	Cycles
410 83	16 A, 250 VAC, resistive, 85°C	3x10 ⁴
410 83	10 A, 250 VAC, resistive, 85°C	1x10 ⁵
410 83	10 A, 400 VAC, resistive, 85°C	1x10 ⁵

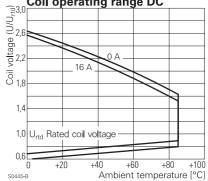
Coil data		
Rated coil voltage range DC coil	660 VDC	
Coil power DC coil	typ. 360 mW	
Operative range	1	
Coil insulation system according UL1446	Class F	

Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDČ	VDC	VDC	Ohm	mW			
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

Coil operating range DC



Datasheet Rev. GG1 Issued 2007/07 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

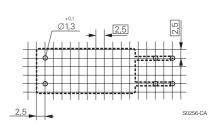
1

Power Relay 410 83 3 mm (Continued)

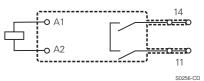
Insulation	
Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	2000 Vrms
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ Illa
Tracking index of relay base	PTI 250
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	111

Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60335-1	> 850 °C
GWT to IEC 60335-1	> 750 °C
Ambient temperature range	-20+85°C
Operate- / release time	typ. 14 / 5 ms
Bounce time NO	typ, 3 ms
Vibration resistance (function) NO (10500Hz	z) 10 ms
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof
Mounting	pcb
Resistance to soldering heat	270°C / 10 s
Relay weight	24 g
Packaging unit	20 / 75 /1050 pcs

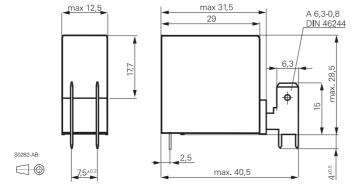
PCB layout / terminal assignment Bottom view on solder pins



1 NO bridging contact



Dimensions



Product key

Product ke	V .	0	4	1	0	8	3			0	0	1	'	WG
Туре	-]					-	
Coil														
Coil	code: please refer to coil versions table, preferred typ	bes ir	n bo	ld pr	int									
Version														
001	1 NO contact													
Version														
WG	Product in accordance with IEC 60335-1 (domest	tic ap	oplia	inces	s)									

Other types on request

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 83 046 001 WG	PCB/quick connect	0		24 Vdc	8-1415536-6

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Specifications subject to change.

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