



0276705

Your Advantages

- Simple contact monitoring via forcibly guided NC contact

Features

- According to IEC/EN 60 255, IEC/EN 61810-1
- Forcibly guided output contacts according to IEC 61810-3
- With LED indicator
- Width: 45 mm

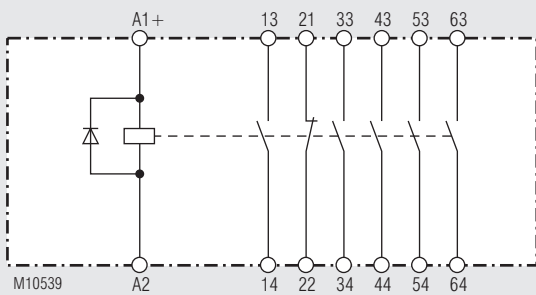
Product Description

The interface module BD 3083 is used for contact multiplication and are suitable as a link between the control and power level.

Approvals and Markings



Block Diagram



Applications

- Link between the control and the power level
- For separating potentials

Indicators

Green LED: On, when supply connected

Technical Data

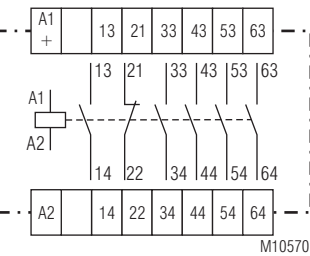
Input

Nominal voltage U_N : DC 24 V
Voltage range: 0.7 ... 1.25 U_N
Nominal consumption: typ. DC 1 W

Output

Contacts: 5 NO contacts, 1 NC contact
Contact type: Forcibly guided
Thermal current I_{th} : Max. 5 A
Switching capacity to AC 15
 NO contacts: 2 A / AC 230 V IEC/EN 60947-5-1
 NC contacts: 1 A / AC 230 V IEC/EN 60947-5-1
to DC 13
 NO contacts: 1 A / DC 24 V IEC/EN 60947-5-1
 NC contacts: 1 A / DC 24 V IEC/EN 60947-5-1
Electrical life
 At 5 A, AC 230 V $\cos \varphi = 1$: > 2 x 10⁵ switch. cycl. IEC/EN 60947-5-1
Permissible switching frequency: Max. 3600 switching cycles / h
Short circuit strength
Max. fuse rating: 4 A gG / gL IEC/EN 60947-5-1
Mechanical life: 10 x 10⁶ switching cycles

Circuit Diagram



Terminal Connection

Terminal designation	Signal description
A1+, A2	Operating voltage
13, 14; 21, 22; 33, 34; 43, 44; 53, 54; 63, 64	Output contacts

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range		
Operation:	- 25... + 70 °C	
Storage:	- 40 ... + 85 °C	
Altitude:	≤ 2000 m	
Clearance and creepage distances		
Rated impulse voltage / pollution degree::	4 kV / 2 (Basis insulation) IEC 60 664-1	
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61000-4-2
HF irradiation:	10 V / m	IEC/EN 61000-4-3
Fast transients:	2 kV	IEC/EN 61000-4-4
Surge voltages between		
Wires for power supply:	1 kV	IEC/EN 61000-4-5
Between wire and ground:	2 kV	IEC/EN 61000-4-5
HF-wire guided:	10 V	IEC/EN 61000-4-6
Interference suppression:	Limit value class B	EN 55011
Degree of protection		
Housing:	IP 40	IEC/EN 60529
Terminals:	IP 20	IEC/EN 60529
Housing:	Thermoplast with V0 behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz, IEC/EN 60068-2-6	
Climate resistance:	25 / 070 / 04 IEC/EN 60068-1	
Terminal designation:	EN 50005	
Wire connection:	1 x 4 mm ² solid or 1 x 2.5 mm ² stranded ferruled (isolated) or 2 x 1.5 mm ² stranded ferruled (isolated) DIN 46228-1/-2/-3/-4 or 2 x 2.5 mm ² stranded ferruled DIN 46228-1/-2/-3	
Wire fixing:	Terminal screws M 3.5 Box terminal with wire protection	
Fixing torque:	0.8 Nm	
Mounting:	DIN rail	EN 50022
Weight:	Approx. 210 g	

Dimensions

Width x height x depth: 45 x 74 x 121 mm

Statistic Characteristics

λ_{total} :	2304	FIT
MTTF:	49.6	a
d_{op} :	365	d/a (days/year)
h_{op} :	24	h/d (hours/day)
t_{zyklus} :	3600	s/Cycle
n_{op} :	8760	Cycle/a
B_{10} :	43410	Cycle

Standard Type

BD 3083.60/100 DC 24 V	
Article number:	0051944
• Output:	5 NO contacts, 1 NC contact
• Nominal voltage U_N :	DC 24 V
• Width:	45 mm