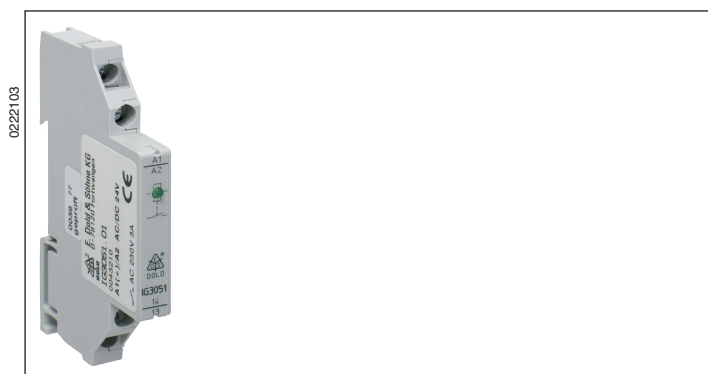
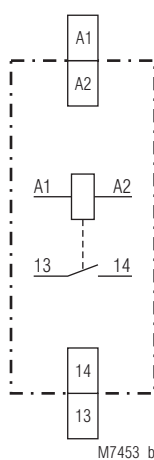


Input-Output Interface Relay Interface Relay IG 3051



- According to IEC/EN 60 947-5-1
- Input for AC/DC 24 V, AC 110 V or 230 V, as required
- 1 NO contact for AC 230 V
- LED indicator
- Width 8.8 mm

Circuit Diagram



Connection Terminals

Terminal designation	Signal description
A1, A2	Operating voltage
13, 14	Output contacts

Approvals and Markings



Indicators

1 LED: on when the output relay is activated

Notes

There must be no 3-phase voltage (400 V) between the input and contact circuit.

Technical Data

Input

Nominal voltage U_N:	AC / DC 24 V AC 110, 230 V
Voltage range:	AC 0.8 ... 1.1 U_N DC 0.9 ... 1.2 U_N
at 10% residual ripple:	
at 48% residual ripple:	DC 0.8 ... 1.1 U_N
Nominal consumption:	AC 230 V 1.3 VA DC 24 V 0.2 W
Nominal frequency:	50 / 60 Hz
Release voltage:	20 % U_N

Output

Contacts:	IG 3051.01: 1 NO contact
Thermal current I_{th}:	3 A
Nominal output voltage:	AC 270 V / DC 125 V
Switching voltage (min.):	5 V
Switching-on capacity:	5 A
Switching current (min.):	1 mA
Switching capacity:	3 A AC 230 V / DC 30 V ohmic load
Electrical life:	1 x 10 ⁵ switching cycles at nominal load IEC/EN 60 947-5-1
Operate time:	≤ 20 ms
Release time:	≤ 20 ms
Short circuit strength	
max. fuse rating:	4 A gG / gL IEC/EN 60 947-5-1
Mechanical life:	2 x 10 ⁶ switching cycles

Technical Data

General Data

Operating mode: Continuous operation

Temperature range

Operation: - 20 ... + 60 °C

Storage: - 20 ... + 60 °C

Altitude: < 2,000 m

Clearance and creepage distances

rated impulse voltage /

pollution degree: 4 kV / 2 IEC 60 664-1

EMC

Electrostatic discharge: 8 kV (air) IEC/EN 61 000-4-2

HF irradiation

80 MHz ... 2,7 GHz: 10 V / m IEC/EN 61 000-4-3

Fast transients: 4 kV IEC/EN 61 000-4-4

Surge voltage

between

wires for power supply: 1 kV IEC/EN 61 000-4-5

between wire and ground: 2 kV IEC/EN 61 000-4-5

HF-wire guided: 10 V IEC/EN 61 000-4-6

Interference suppression: Limit value class B EN 55 011

Degree of protection

Housing: IP 40 IEC/EN 60 529

Terminals: IP 20 IEC/EN 60 529

Housing: Thermoplastic with V0 behaviour
according to UL subject 94

Vibration resistance: Amplitude 0.35 mm,
frequency 10 ... 55 Hz IEC/EN 60 068-2-6

Climate resistance: 20 / 060 / 04 IEC/EN 60 068-1

Terminal designation: EN 50 005

Wire connection: 2 x 2.5 mm² solid or
2 x 1.5 mm² stranded ferruled

DIN 46 228-1/-2/-3/-4

Stripping length: 10 mm

Wire fixing: Plus-Minus-terminal screws M3,5 with
self-lifting clamping piece IEC/EN 60 999-1

Fixing torque: 0.8 Nm

Mounting: DIN rail IEC/EN 60 715

Weight: 35 g

Dimensions

Width x height x depth: 8.8 x 89 x 58 mm

Standard Type

IG 3051.01 AC/DC 24 V 50/60 Hz

Article number: 0043210

• Output: 1 NO contact

• Nominal voltage U_N : AC/DC 24 V

• Width: 8.8 mm

Ordering example

IG 3051 .01 AC 230 V 50 / 60 Hz

_____ Nominal frequency
_____ Nominal voltage
_____ Contacts
_____ Type