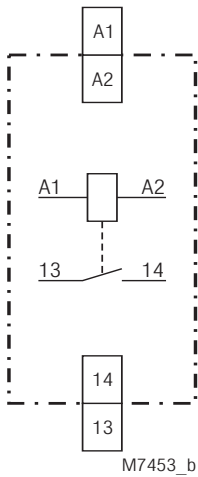


Input-Output Interface Relay Interface Relay IG 3051



- According to IEC/EN 60 255, IEC/EN 61 810-1
- Input for AC/DC 24 V, AC 110 V or 230 V, as required
- 1 NO contact for AC 230 V
- LED indicator
- Width 9 mm

Circuit Diagram



Approvals and Marking



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:	DC 0.8 ... 1.1 U_N
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
Mechanical life:	2 x 10 ⁶ switching cycles

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 60°C	
Clearance and creepage distances		
rated impuls voltage / pollution degree:	4 kV / 2	IEC 60 664-1
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	4 kV	IEC/EN 61 000-4-4
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 mm ² solid or 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4	
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1	
Mounting:	DIN rail IEC/EN 60 715	
Weight:	35 g	

Dimensions

Width x height x depth: 9 x 89 x 58 mm

Standard Type

IG 3051.01	AC/DC 24 V	50/60 Hz	
Article number:	0043210		stock item
• Output:	1 NO contact		
• Nominal voltage U_N :	AC/DC 24 V		
• Width:	9 mm		

Ordering example

IG 3051 .01	AC 230 V	50 / 60 Hz	
			Nominal frequency
			Nominal voltage
			Contacts
			Type