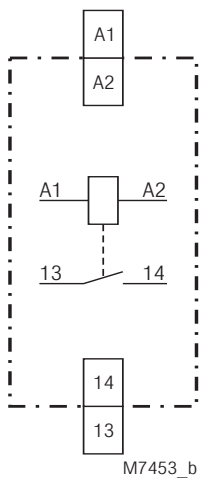


## Input-Output Interface Relay Interface Relay IG 3051



- 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

<b>Nominal voltage <math>U_N</math>:</b>	AC / DC 24 V AC 110, 230 V
<b>Voltage range:</b>	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 $U_N$
<b>Nominal consumption:</b>	AC 230 V 1.3 VA DC 24 V 0.2 W
<b>Nominal frequency:</b>	50 / 60 Hz
<b>Release voltage:</b>	20 % $U_N$

#### Output

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

## Technical Data

### General Data

<b>Operating mode:</b>	Continuous operation	
<b>Temperature range:</b>	- 20 ... + 60°C	
<b>Clearance and creepage distances</b>		
rated impuls voltage / pollution degree:	4 kV / 2	IEC 60 664-1
<b>EMC</b>		
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
<b>Degree of protection</b>		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
<b>Housing:</b>	Thermoplastic with V0 behaviour according to UL subject 94	
<b>Vibration resistance:</b>	Amplitude 0.35 mm, frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
<b>Climate resistance:</b>	20 / 060 / 04	IEC/EN 60 068-1
<b>Terminal designation:</b>	EN 50 005	
<b>Wire connection:</b>	2 x 2.5 mm <sup>2</sup> solid or 2 x 1.5 mm <sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4	
<b>Wire fixing:</b>	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1	
<b>Mounting:</b>	DIN rail IEC/EN 60 715	
<b>Weight:</b>	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