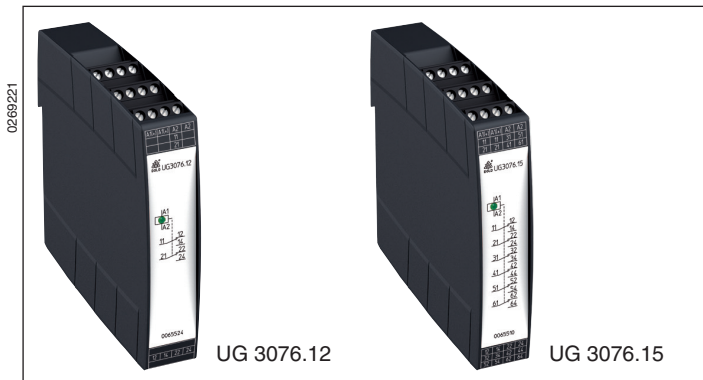


Interface Relay UG 3076/007



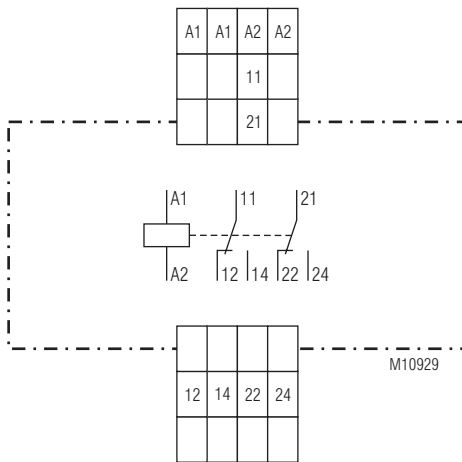
Your Advantages

- Reliable fast response
- Simple contact multiplication
- Cost and space saving alternative compared to contactors
- With plugable terminal blocks for easy exchange of devices

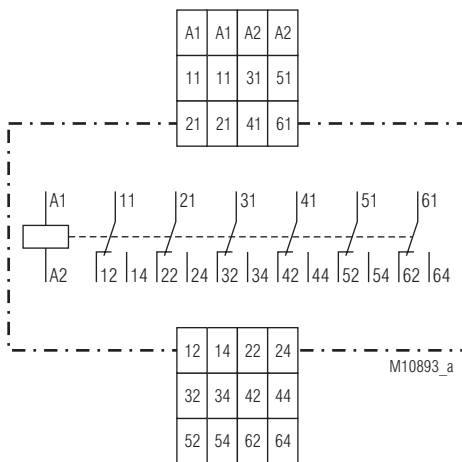
Features

- UG 3076.12: 2 changeover contact
- UG 3076.15: 6 changeover contact
- Safe release voltage: the output relay is de-energized at $U < 27\% U_N$
- Width 22.5 mm

Circuit Diagrams



UG 3076.12



UG 3076.15

Approvals and Markings



Application

- Fast response, e. g. inductive load and circuit breakers
- Interfacing between control and load circuits
- Separate switching of several current circuits, e. g. at
 - Machines and plants,
 - Energy production and transport

Indication

green LED: on, when supply connected

Technical Data

Input

Nominal voltage U_N :

UG 3076.12:	AC 48, 110, 230 V DC 48, 110, 220 V
UG 3076.15:	AC/DC 24, 48, 110, 230 V

Voltage range

DC:	0.8 ... 1.1 U_N
AC:	0.9 ... 1.1 U_N

Nominal consumption

DC 24 V:	2.7 W
DC 110 V:	3.3 W
AC 230 V:	2.7 W

Output

Contacts:

UG 3076.12: 2 changeover contacts

UG 3076.15: 6 changeover contact

Operate time: typical 7 ... 8 ms

Release time: typical 7 ms

Nominal output voltage: AC 250 V, DC 24 V

Thermal current I_{th} : 4 A
(see quadratic total current limit curve)

Switching capacity

to AC 15:

NO contacts: 3 A / AC 230 V IEC/EN 60 947-5-1

NC contacts: 2 A / AC 230 V IEC/EN 60 947-5-1

to DC 13:

NO contacts: 4 A / DC 24 V IEC/EN 60 947-5-1

NC contacts: 4 A / DC 24 V IEC/EN 60 947-5-1

Electrical life

NO contacts

to AC 15 at 1 A, AC 230 V: 1.5×10^6 switch. cycl. IEC/EN 60 947-5-1

NO contacts

to AC 15 at 0,5 A, AC 230 V: 2.5×10^6 switch. cycl. IEC/EN 60 947-5-1

NC contacts

to AC 15 at 1 A, AC 230 V: 1×10^6 switch. cycl. IEC/EN 60 947-5-1

NO contacts

to DC 13 at 1 A, DC 24 V: 0.5×10^6 switch. cycl. IEC/EN 60 947-5-1

Permissible switching frequency:

10 switching cycles / s

Switching voltage min./max.: AC/DC 10 V / AC/DC 250 V

Switching current min./max.: 0.3 mA / 1 A

Short circuit strength

max. fuse rating: 6 A gL IEC/EN 60 947-5-1

Mechanical life: $\geq 30 \times 10^6$ switching cycles

General Data

Operating mode: Continuous operation

Temperature range: -20 ... +60°C (see characteristics)

Clearance and creepage distances

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

EMC

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

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

Surge voltages between

wires for power supply: 2 kV IEC/EN 61 000-4-5

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

Interference suppression: Limit value class B EN 55 011

Degree of protection

Housing: IP 20 IEC/EN 60 529

Terminals: IP 20 IEC/EN 60 529

Housing: Thermoplast mit V0-Verhalten nach UL Subjekt 94

Vibration resistance: Amplitude 0,35 mm, frequency 10 ... 55 Hz, IEC/EN 60 068-2-6

Climate resistance: 20 / 045 / 04 IEC/EN 60 068-1

Terminal designation: EN 50 005

Technical Data

Wire connection:

Plugin with screw terminals

max. cross section for connection: 1 x 0.25 ... 2.5 mm² solid or stranded ferruled (isolated) or 2 x 0.25 ... 1.0 mm² massiv oder stranded ferruled (isolated)

Insulation of wires or sleeve length: 7 mm

Wire fixing: captive slotted screw

Mounting: DIN rail IEC/EN 60 715

Weight: approx. 190 g

Dimensions

Width x height x depth: 22.5 x 105 x 120.3 mm

Standard Types

UG 3076.12PS/007 DC 110 V

Article number: 0065524

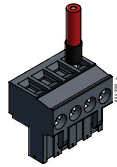
- 2 changeover contacts
- Width: 22.5 mm

UG 3076.15PS/007 AC/DC 24 V

Article number: 0065510

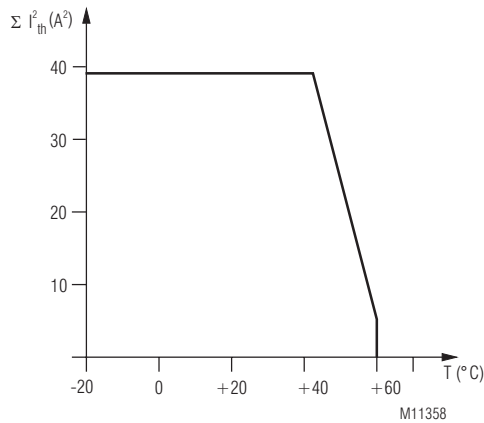
- 6 changeover contacts
- Width: 22.5 mm

Options with Pluggable Terminal Blocks



Screw terminal (PS/plugin screw)

Characteristics



Quadratic total current

$$\sum I_{th}^2 = I_{th1}^2 + I_{th2}^2 + I_{th3}^2 + I_{th4}^2 + I_{th5}^2 + I_{th6}^2$$

$I_{th1}, I_{th2}, I_{th3}, I_{th4}, I_{th5}, I_{th6}$: thermal current I_{th} in contactrows

Quadratic total current limit curve