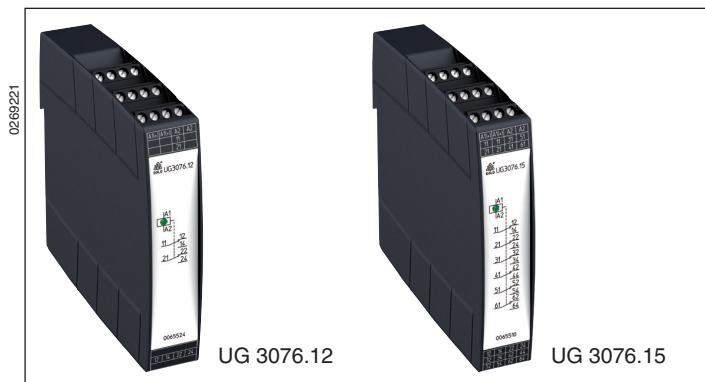


Interface Relay UG 3076/007



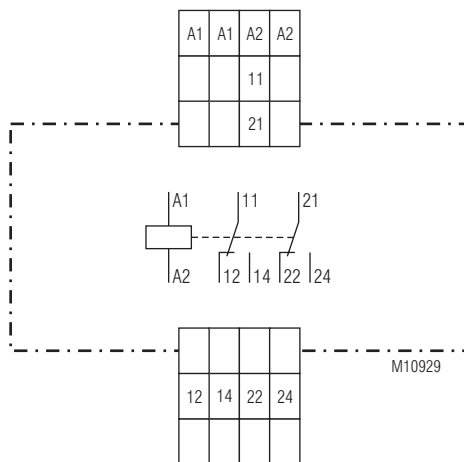
Your Advantages

- According to IEC/EN 60 947-5-1
- Reliable fast response
- Simple contact multiplication
- Cost and space saving alternative compared to contactors
- With plugable terminal blocks for easy exchange of devices

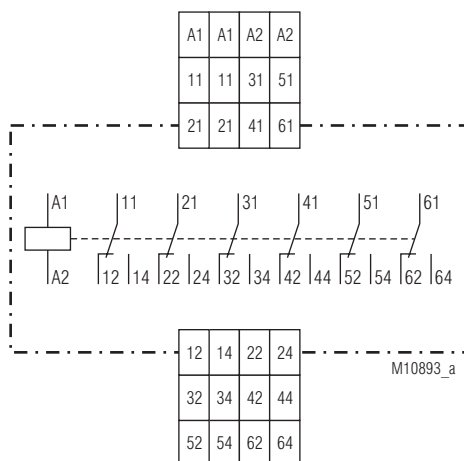
Features

- 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

Connection Terminal

Terminal designation	Signal description
A1 / A2	Operation voltage
11 ... 64	Output contacts see circuit diagrams

Technical Data

Input

Nominal voltage U_N :

UG 3076.12: AC 24, 48, 110, 230 V
DC 24, 48, 110, 220 V
UG 3076.15: AC/DC 24, 48, 110, 125, 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

Nominal frequency:

50 / 60 Hz
Frequency range: ± 5 % of nominal frequency

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

to DC 13: NO contacts: 1 A / DC 24 V IEC/EN 60 947-5-1

Electrical life

NO contacts to AC 15 at 1 A, AC 230 V: 2.5 x 10⁶ switch. cycl. IEC/EN 60 947-5-1

NO contacts to AC 15 at 0,5 A, AC 230 V: 4 x 10⁶ switch. cycl. IEC/EN 60 947-5-1

NC contacts to AC 15 at 1 A, AC 230 V: 1.5 x 10⁶ switch. cycl. IEC/EN 60 947-5-1

NO contacts to DC 13 at 1 A, DC 24 V: 1.5 x 10⁶ 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.:

10 mA / 4 A

Short circuit strength

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

Mechanical life:

$\geq 30 \times 10^6$ switching cycles

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:

Auxiliary voltage / Contacts: 6 kV / 2 IEC 60 664-1

Contacts / Contacts: 4 kV / 2 IEC 60 664-1

EMC

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

HF irradiation

80 MHz ... 6 GHz: 10 V / m IEC/EN 61 000-4-3

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

HF-wire guided: 20 V IEC/EN 61 000-4-6

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 with V0-behaviour

according to UL subject 94

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

20 / 060 / 04 IEC/EN 60 068-1

EN 50 005

Climate resistance:

Terminal designation:

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

Fixing torque:

0.5 Nm

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

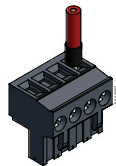
UG 3076.15PS/007 AC/DC 24 V

Article number: 0065510

• 6 changeover contacts

• Width: 22.5 mm

Options with Pluggable Terminal Blocks



Screw terminal
(PS/plugin screw)

Characteristics

