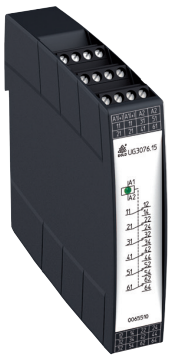
Interface Relay
UG 3076/007

0269221

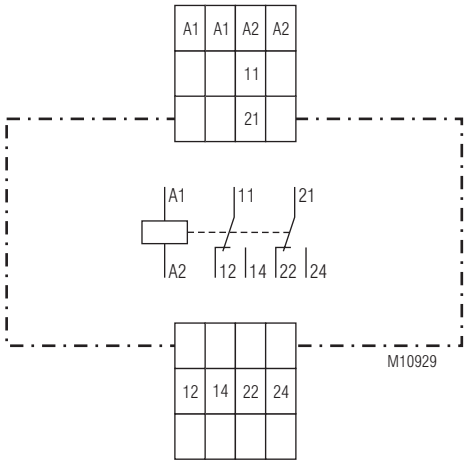

UG 3076.12


UG 3076.15

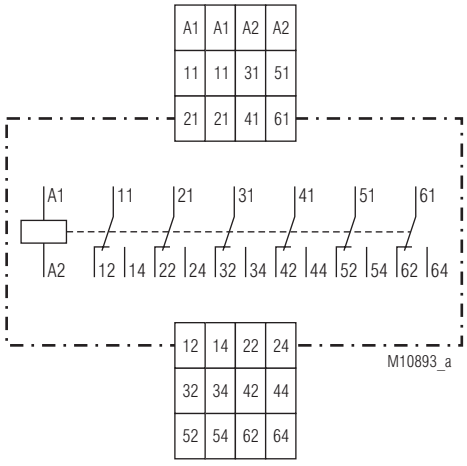
Your Advantages
- Reliable fast response
- Simple contact multiplication
- Cost and space saving alternative compared to contactors
- With plugable terminal blocks for easy exchange of devices

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

CE

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

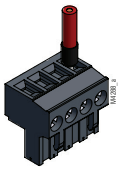
Width x height x depth:	22.5 x 105 x 120.3 mm

Standard Types

UG 3076.12PS/007 DC 110 V
Article number: 0065524
- 2 changeover contacts
- Width: 22.5 mm

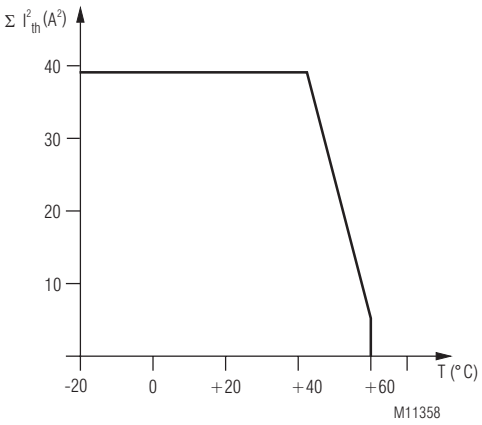
UG 3076.15PS/007 AC/DC 24 V
Article number: 0065510
- 6 changeover contacts
- Width: 22.5 mm

Options with Pluggable Terminal Blocks



Screw terminal
(PS/plugin screw)

Characteristics



Quadratic total current

$$\Sigma I^2_{th} = I^2_{th1} + I^2_{th2} + I^2_{th3} + I^2_{th4} + I^2_{th5} + I^2_{th6}$$

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

Quadratic total current limit curve