

CHA1

Auto-ON-OFF Interface Relay

DIN Rail mounting according to DIN 43 880



Type: CHA1/UC24V

Auto ON-OFF relay with override switch and check back signal contact, e.g. for PLC. It is suitable for either automatic control or function override for maintenance, emergency, installations etc.

1 change over power contact with 2500 VA switching capacity

1 normally closed signal contact 0.3 A, 30 V

UC 24 V control voltage, DC, AC 50 / 60 Hz

LED for status indication

Maximum contact load	2500 VA AC1, 250 W DC1
Recommended minimum contact load	10 mA / 12 V

Contact data	Power cont.	Signal cont.
Contact type	1CO, micro disconnection	1NC
Material	AgSnO ₂	Ag
Rated operational current	10 A	0.3 A
Max. inrush current (20 ms)	15 A	0.5 A
Max. switching voltage AC-1	250 V	30 V
Max. AC load	2500 VA AC-1, 500 VA AC-15	
Max. Motor load AC-3	0.44 kW	
Max. DC load DC-1	10 A 24 V, 0.12 A 220 V	10 W
Min. switching load	300 mW	

Control input V_n =	UC 24 V (AC or DC)
Operating voltage range	19 ... 26.5 V
Release voltage	< 3 V, typically 5 V
input current @ V _n	≤ 17 mA
Nominal power consumption	400 mW

Insulation	
Withstand voltage I / O	Pulse 4 kV (1.2/50μs)
Open contact	1000 Vrms dielectric strength

General Specifications

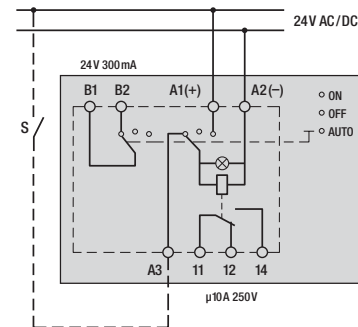
Ambient temperature: operation	-10 ... +50 °C
Typical response time @ V _{nom}	5 ... 10 ms
Typical release time @ V _{nom}	7 ... 12 ms
Mechanical life	≥ 10 ⁷ operations
Electrical life AC-1	≥ 10 ⁵ operations
Ingress protection degree	IP 20
Conductor cross section, solid wire size	1 x 6 mm ² / AWG10, 2 x 2.5 mm ² /AWG 12
Conductor cross section, stranded wire size	1 x 4 mm ² / AWG12, 2 x 1.5 mm ² /AWG 16
Max. Screw torque	0.5 Nm

Standard types

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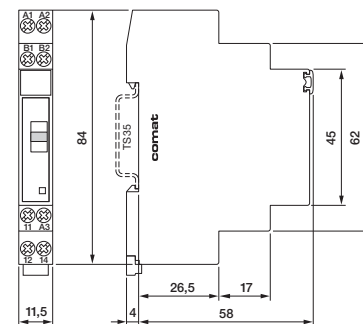
Connection diagram



Function table

Green ON-OFF-switch	Control input A3	Relay / LED	Check back contact
AUTO	1	1	1
	0	0	1
ON	-	1	0
OFF	-	0	0

Dimensions [mm]



Technical approvals, conformities

