TRS 60VUC 1CO 16A

Product image

Similar to illustration

- 1 CO contact
- Contact material: AgNi
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 5 V DC to 230 V UC with coloured marking: AC: red, DC: blue, UC: white

General ordering data

Version	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 16 A, Screw connection
Order No.	1479710000
Type	TRS 60VUC 1CO 16A
GTIN (EAN)	4050118288001
Qty.	10 pc(s).

Creation date March 24, 2021 1:11:59 AM CET

TRS 60VUC 1CO 16A

Technical data

Dimensions and weights

Depth	87.8 mm		Depth (inches)	3.457 inch
Height	89.6 mm		Height (inches)	3.528 inch
Net weight	56 g		Width	12.8 mm
Width (inches)	0.504 inch			

Temperatures

Storage temperature	-40 °C...85 °C		Operating temperature	-40 °C...60 °C
Humidity	5-95% relative humidity, T_u = 40°C, without condensation			

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	

Rated data UL

Operating altitude	≤ 2000 m, above sea level		Ambient temperature (operational), max.	60 °C
Connection cross-section AWG, min.	AWG 26		Connection cross-section AWG, max.	AWG 14
Type of conductor	rigid copper conductor, flexible copper conductor		Tightening torque, max.	0.4 Nm
Pollution severity level	2			

Control side

Coil voltage of the replacement relay	60 V DC		Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Power rating	480 mVA / 360 mW		Protective circuit	Rectifier
Pull-in/drop-out current, typ.	5 mA / 2.5 mA AC 4 mA / 1.2 mA DC		Pull-in/drop-out voltage, typ.	36 V / 13 V AC 40 V / 14 V DC
Rated control voltage	60 V UC ± 10 %		Rated current AC	8 mA
Rated current DC	6.1 mA		Status indicator	Green LED

Load side

AC switching capacity (resistive), max.	4000 VA		Continuous current	16 A
DC switching capacity (resistive), max.	384 W @ 24 V		Inrush current	30 A / 4 s
Max. switching frequency at rated load	0.1 Hz		Max. switching voltage, DC	250 V
Min. switching power	10 mA @ 10 V, 100 mA @ 5 V		Rated switching voltage	250 V AC
Switch-off delay	≤ 7 ms		Switch-on delay	≤ 11 ms

Contact data

Contact type	1 CO contact (AgNi)		Mechanical service life	30×10^6 switching cycles

General data

Rail	TS 35	
Test button	No	
Mechanical switch position indicator	No	
Colour	black	

Creation date March 24, 2021 1:11:59 AM CET

TRS 60VUC 1CO 16A

Technical data

UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0
	Component	Retaining clip
	UL94 flammability rating	V-0

Insulation coordination

Creepage and clearance distance input – output	≥ 5.5 mm	Dielectric strength of open contact	1 kV$_{eff}$ / 1 min
Dielectric strength to mounting rail	4 kV$_{eff}$ / 1 Min.	Dielectric strength, Input/Output	1.2 kV$_{eff}$ / 5 s
Impulse withstand voltage	6 kV (1.2/50 µs)	Pollution severity	2
Protection degree	IP20	Rated voltage	300 V
Surge voltage category	III		

Further details of approvals / standards

Standards	EN 50178, EN 55011, EN 61000-6-1, 2, 4	Certificate No. (DNVGL)	TAA00001E5
Certificate no. (cULus)	E141197		

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	0.4 Nm	Clamping range, rated connection	1.5 mm²
Clamping range, min.	0.14 mm²	Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.14 mm²	Wire cross-section, solid, max.	2.5 mm²
Wire cross-section, solid, min. (AWG)	AWG 26	Wire cross-section, solid, max. (AWG)	AWG 14
Wire connection cross section, finely stranded, min.	0.14 mm²	Wire connection cross section, finely stranded, max.	2.5 mm²
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, finely stranded, max. (AWG)	AWG 14
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.25 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm²
Twin wire-end ferrules, min.	0.5 mm²	Twin wire-end ferrules, max.	1 mm²
Blade size	size PH0	Gauge to IEC 60947-1	A1, B1

Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ECLASS 9.0	27-37-16-01	ECLASS 9.1	27-37-16-01
ECLASS 10.0	27-37-16-01	ECLASS 11.0	27-37-16-01

Approvals

Approvals

ROHS	Conform
UL File Number Search	E141197

Creation date March 24, 2021 1:11:59 AM CET

TRS 60VUC 1CO 16A

Technical data

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Beipackzettel / Package Insert – multilingual

Creation date March 24, 2021 1:11:59 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

4

TRS 60VUC 1CO 16A

Drawings

Wiring diagram

Graph

DC load breaking capacity
Resistive load

DC load limit curve
Resistive load

Graph

Electrical endurance
250 V AC Resistive load

Electrical service life 230 V AC resistive load
230 V AC resistive load

Dimensional drawing

Creation date March 24, 2021 1:11:59 AM CET

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5

TRS 60VUC 1CO 16A

Drawings

Miscellaneous

Type code TERMSERIES electromechanical relay versions

T = TERMSERIES

R = Electromechanical relay

P = PUSH IN
S = Screw
Z = Tension

Color-marking / control voltage
- 5 VDC
- 12 VDC
- 24 VDC
- 24 VUC
- 48 VUC
- 60 VUC
- 120 VUC
- 230 VUC
- 120 VAC RC (RC-Filter)
- 230 VAC RC (RC-Filter)
- 24 – 230 VUC

UC = AC/DC

Blank = Contact material AgNi
AGSNO = Contact material AgSnO
16A = 16 A output version
HC = Output for high inrush currents
HCP = HC + Premaking tungsten contact
C1D2 = Class 1 Division 2 approved
EMPTY = Empty sockets without relay

Blank = No plating
AU = Gold plated contact

1CO = 1 Change over / SPDT
2CO = 2 Change over / DPDT
1NO = 1 Normal open / SPST
ACT = Special 1 Normal open / SPST

Type codes

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