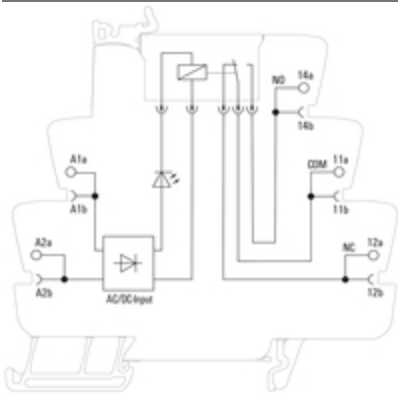


# TRS 120VUC 1CO



**DC load breaking capacity**  
Resistive load

**Electrical endurance**  
720 V AC, resistive load

Type code **TERMSERIES** electromechanical relay versions

**TERMSERIES**



## General ordering data

Version	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, Screw connection, Test button available: No
Order No.	1122810000
Type	TRS 120VUC 1CO
GTIN (EAN)	4032248904860
Qty.	10 pc(s).

## Dimensions and weights

Depth	87.8 mm
Depth (inches)	3.457 inch
Height	89.6 mm
Height (inches)	3.528 inch
Width	6.4 mm
Width (inches)	0.252 inch
Net weight	34 g

## Temperatures

Storage temperature	-40 °C...85 °C
---------------------	----------------

Operating temperature	-40 °C...60 °C
Humidity	5-95% relative humidity, T <sub>u</sub> = 40°C, without condensation

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9

### Rated data UL

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

Rated control voltage	120 V UC ±10 %
Rated current AC	4 mA
Rated current DC	3.5 mA
Power rating	0.48 VA, 420 mW
Status indicator	Green LED
Protective circuit	Rectifier
Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Coil voltage of the replacement relay	60 V DC

### Load side

Rated switching voltage	250 V AC
Continuous current	6 A
Max. switching frequency at rated load	0.1 Hz
Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V
Inrush current	20 A / 20 ms
AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	144 W @ 24 V
Switch-on delay	≤ 11 ms
Switch-off delay	≤ 40 ms
Contact type	1 CO contact (AgNi)

Mechanical service life	5 x 10 <sup>6</sup> switching cycles
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V

### General data

Operating altitude	≤ 2000 m, above sea level
Rail	TS 35
Test button available	No
Mechanical switch position indicator	No
Colour	black

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

### Insulation coordination

Rated voltage	300 V
Pollution severity	2
Surge voltage category	III
Clearance and creepage distances for control side - load side	≥ 6 mm
Dielectric strength for control side - load side	4 kV <sub>eff</sub> / 1 Min.
Type of isolation at input and output	reinforced insulation
Dielectric strength of open contact	1 kV <sub>eff</sub> / 1 min
Dielectric strength to mounting rail	4 kV <sub>eff</sub> / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 μs)
Protection degree	IP20

### Further details of approvals / standards

Certificate No. (DNV)	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 mm <sup>2</sup>
Clamping range, min.	0.14 mm <sup>2</sup>

Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.14 mm <sup>2</sup>
Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
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 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 16
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.25 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm <sup>2</sup>
Wire cross-section, finely stranded, two clampable wires, max.	1 mm <sup>2</sup>
Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>
Twin wire-end ferrules, max.	1 mm <sup>2</sup>
Blade size	size PH0

## Downloads

Approval/Certificate/Document of Conformity	<a href="#"><u><b>EU Konformitätserklärung / EU Declaration of Conformity</b></u></a>
Engineering Data	<a href="#"><u><b>CAD data -- STEP</b></u></a>
Engineering Data	<a href="#"><u><b>Zuken E3.S</b></u></a>
Eplan Data Portal	<a href="#"><u><b>Eplan data</b></u></a>
CADENAS eCATALOG	<a href="#"><u><b>CAX data</b></u></a>
WSCAD Universe	<a href="#"><u><b>WSCAD data</b></u></a>

[User Documentation](#)**Beipackzettel / Package Insert – multilingual**[Catalogues](#)**Catalogues in PDF-format**[Brochures](#)

## Classifications

ETIM 6.0	EC001437
ETIM 7.0	EC001437
ETIM 8.0	EC001437
ETIM 9.0	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
ECLASS 12.0	27-37-16-01
ECLASS 13.0	27371601

## Approvals

[Approvals](#)

ROHS

Conform

[UL File Number Search](#)**UL Website**

Certificate no. (cULus)

E141197

## Related products:



Order No.: 2662850000  
 Type: TRS 24-230VUC 1CO ED2

Version:  
 TERMSERIES, Relay  
 module, Number of  
 contacts: 1, CO  
 contact AgNi, Rated  
 control voltage: 24...  
 230 V UC ±10 %,  
 Continuous current: 6  
 A, Screw connection,  
 Test button available:  
 No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122740000  
Type: TRS 5VDC 1CO

Version:  
TERMSERIES, Relay  
module, Number of  
contacts: 1, CO  
contact AgNi, Rated  
control voltage: 5 V  
DC  $\pm 20$  %,  
Continuous current: 6  
A, Screw connection,  
Test button available:  
No

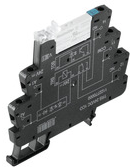
[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122750000  
Type: TRS 12VDC 1CO

Version:  
TERMSERIES, Relay  
module, Number of  
contacts: 1, CO  
contact AgNi, Rated  
control voltage: 12 V  
DC  $\pm 20$  %,  
Continuous current: 6  
A, Screw connection,  
Test button available:  
No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122770000  
Type: TRS 24VDC 1CO

Version:  
TERMSERIES, Relay  
module, Number of  
contacts: 1, CO  
contact AgNi, Rated  
control voltage: 24 V  
DC  $\pm 20$  %,  
Continuous current: 6  
A, Screw connection,  
Test button available:  
No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122780000  
Type: TRS 24VUC 1CO

Version:  
TERMSERIES, Relay  
module, Number of  
contacts: 1, CO  
contact AgNi, Rated  
control voltage: 24 V  
UC  $\pm 10$  %,  
Continuous current: 6  
A, Screw connection,  
Test button available:  
No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122790000  
Type: TRS 48VUC 1CO

Version:  
TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC  $\pm 10\%$ , Continuous current: 6 A, Screw connection, Test button available: No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122800000  
Type: TRS 60VUC 1CO

Version:  
TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC  $\pm 10\%$ , Continuous current: 6 A, Screw connection, Test button available: No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122830000  
Type: TRS 120VAC RC 1CO

Version:  
TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC  $\pm 10\%$ , Continuous current: 6 A, Screw connection, Test button available: No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122840000  
Type: TRS 230VAC RC 1CO

Version:  
TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC  $\pm 10\%$ ,

Continuous current: 6  
A, Screw connection,  
Test button available:  
No

[PDF data sheet](#)  
[Add to Inquiry List](#)



Order No.: 1122820000  
Type: TRS 230VUC 1CO

Version:  
TERMSERIES, Relay  
module, Number of  
contacts: 1, CO  
contact AgNi, Rated  
control voltage: 230  
V UC  $\pm 10\%$ ,  
Continuous current: 6  
A, Screw connection,  
Test button available:  
No

[PDF data sheet](#)  
[Add to Inquiry List](#)