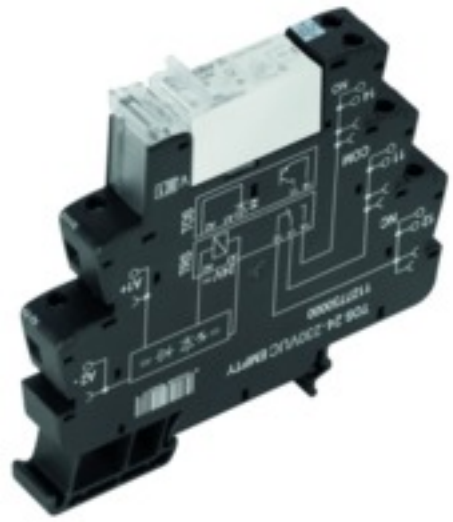
TRS 24-230VUC 1NO HCP

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



Similar to illustration

- 1 NO contact, with high inrush power (HCP)
- Contact material: AgSnO + leading tungsten contact
- Especially for capacitive loads with very high inrush currents up to 800 A / 200 µs
- Unique multi-voltage input from 24 to 230 V UC

General ordering data

Version	TERMSERIES, Relay module, Number of contacts: 1, NO contact AgSnO + W, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 16 A, Screw connection
Order No.	1479830000
Type	TRS 24-230VUC 1NO HCP
GTIN (EAN)	4050118288124
Qty.	10 pc(s).

Creation date March 24, 2021 1:12:54 AM CET

TRS 24-230VUC 1NO HCP

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

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...40 °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.	40 °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	24 V DC	Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Power rating	980 mW @ 24 V DC, 650 mVA @ 24 V AC, 780 mW @ 230 V DC, 1.68 VA @ 230 V AC	Protective circuit	Rectifier
Pull-in/drop-out current, typ.	42 mA / 15.5 mA AC 34 mA / 10 mA DC	Pull-in/drop-out voltage, typ.	15 V / 7 V AC 15 V / 5 V DC
Rated control voltage	24...230 V UC ± 10 %	Rated current AC	30.0 mA AC @ 24 V AC, 7.2 mA AC @ 230 V AC
Rated current DC	40.5 mA DC @ 24 V DC, 3.4 mA DC @ 230 V DC	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	165 A / 20 ms, 800 A / 200 µs
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, DC	250 V
Min. switching power	1 W	Rated switching voltage	250 V AC
Switch-off delay	≤ 75 ms	Switch-on delay	≤ 30 ms

Contact data

Contact type	1 NO contact (AgSnO + W)	Mechanical service life	5 x 10^6 switching cycles

General data

Rail	TS 35

TRS 24-230VUC 1NO HCP

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Test button	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

Creepage and clearance distance input – output	≥ 5.5 mm	Dielectric strength of open contact	1.2 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

TRS 24-230VUC 1NO HCP

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E141197

Downloads

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

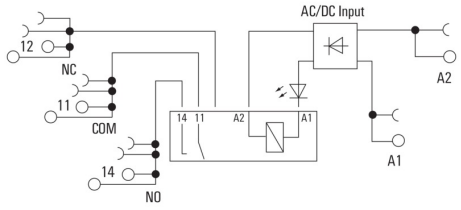
TRS 24-230VUC 1NO HCP

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

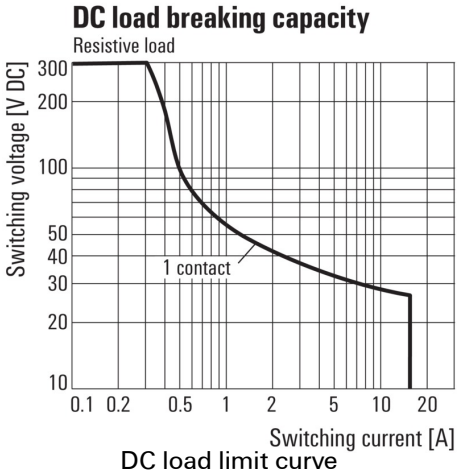
www.weidmueller.com

Drawings

Wiring diagram

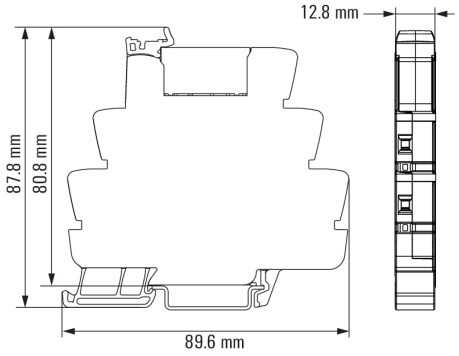


Graph



DC load limit curve
Resistive load

Dimensional drawing



TRS 24-230VUC 1NO HCP

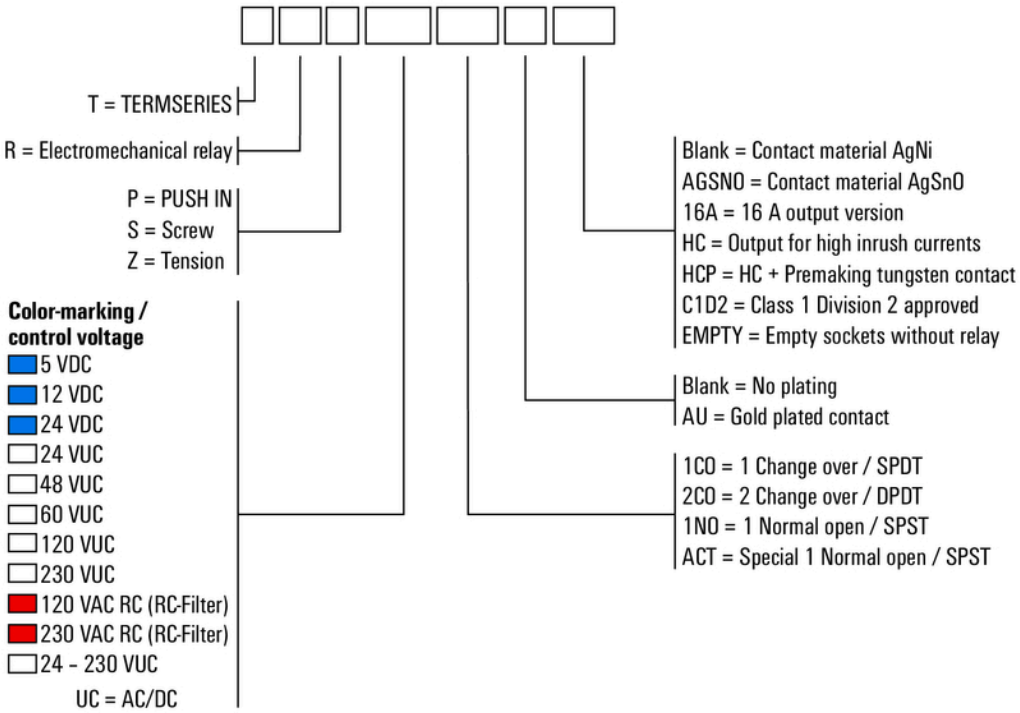
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

Miscellaneous

Type code TERMSERIES electromechanical relay versions



Type codes