CHARX T2HBI12-1AC32DC125-5,0M2 - Vehicle charging inlet

1356162

https://www.phoenixcontact.com/us/products/1356162

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The figure shows a version of the product

CHARX connect universal, AC/DC CCS Typ 2, Vehicle charging inlet, up to 250 A in Boost mode, 125 A permanent, 1000 V DC, 32 A , 250 V AC, Gen 4, Single-core wires connected at one end, length: 5 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging with alternating current (AC) and with direct current (DC), IEC 62196-2, IEC 62196-3, A protective cap is supplied as standard for the DC and AC contacts.

Product description

Vehicle charging inlet for charging with direct current (DC), compatible with type 2 CCS vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

Your advantages

- Complete product range
- Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

Commercial data

Item number	1356162
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151684525
Weight per piece (including packing)	8,877 g
Weight per piece (excluding packing)	5,036 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Notes

General	A protective cap is supplied as standard for the DC and AC contacts.

Product properties

Product type	Vehicle charging inlet
Product family	CHARX connect universal
Type	Gen 4
Charging standard	AC/DC CCS Typ 2
Charging mode	Mode 2, 3, 4
Customer variations	On request

Electrical properties

Charging power and current (AC charging, 1-phase)

Type of charging current	AC single-phase
Charging current	32 A AC (1-phase)
Charging power	7.4 kW (AC)
Rated voltage	250 V

Charging power and current (DC charging)

Type of charging current	DC
Charging current	125 A DC
Charging power	125 kW (DC)
Rated voltage	1000 V

Charging power and current (DC charging in Boost Mode)

Type of charging current	DC Boost Mode
Charging current	up to 250 A DC
Charging power	up to 250 kW (DC)
Rated voltage	1000 V
Note	The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area.

Pin assignment (Power contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	32 A AC
	125 A DC

Pin assignment (Signal contacts)

Note on the connection method	Crimp connection, cannot be disconnected

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Coding	4.7 kΩ (between PE and PP)
Insulation resistance	> 200 MΩ

Locking actuator

Locking actuator	12 V, 4-pos.
	Right position
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	12 V
Typical motor current for locking	0.25 A
Reverse current of the motor	max. 1.5 A
Max. dwell time with reverse current	1 s
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
Lock recognition	available
Mechanical emergency release	available
Ambient temperature (operation)	-40 °C ... 40 °C

Temperature sensors (PTC chain)

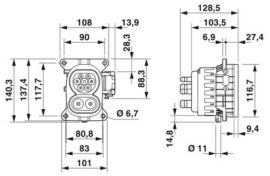
Sensor type	PTC chain
Standards/regulations	DIN EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790 Ω ... 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U_{max}= 16 V DC)
Ambient temperature	-40 °C ... 130 °C (Operation)

Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

Dimensions

Vehicle charging inlet

Dimensional drawing	
Width	108 mm
Height	140.25 mm
Depth	128.4 mm

Bore dimensions

Width	117.65 mm
Height	90 mm
Depth	117.65 mm

Material specifications

Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

Cable/line

Cable length	5 m
Cable type	Single-core wires connected at one end

Single-core wires for AC

Cable length	5 m
Cable structure	2 x 6 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	12.60 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km

Single-core wires for DC

Cable length	5 m
Cable structure	2 x 35 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.10 mm ±0.3 mm
Cable resistance	≤ 0.527 Ω/km

Single-core wire for PE

Cable length	5 m
Cable structure	1 x 25 mm²
Single wire, material	Silicone
Single wire, color	GN/YE

External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km

Single-core wires for locking actuator

Cable length	1.5 m
Cable structure	4 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for PTC temperature sensors

Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN/GY
	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for Pt 1000 temperature sensors

Cable length	1 m
Cable structure	3 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for communication

Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BK
	WH
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions

Degree of protection (Vehicle charging inlet)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
	IP67 (Inner area of vehicle charging inlet)
Ambient temperature (operation)	-40 °C ... 40 °C (Max. 60 K heating, current reduction required. Observe the limit value for the DC contact temperature of 90 °C.)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	4000 m (above sea level)

Standards and regulations

Standards

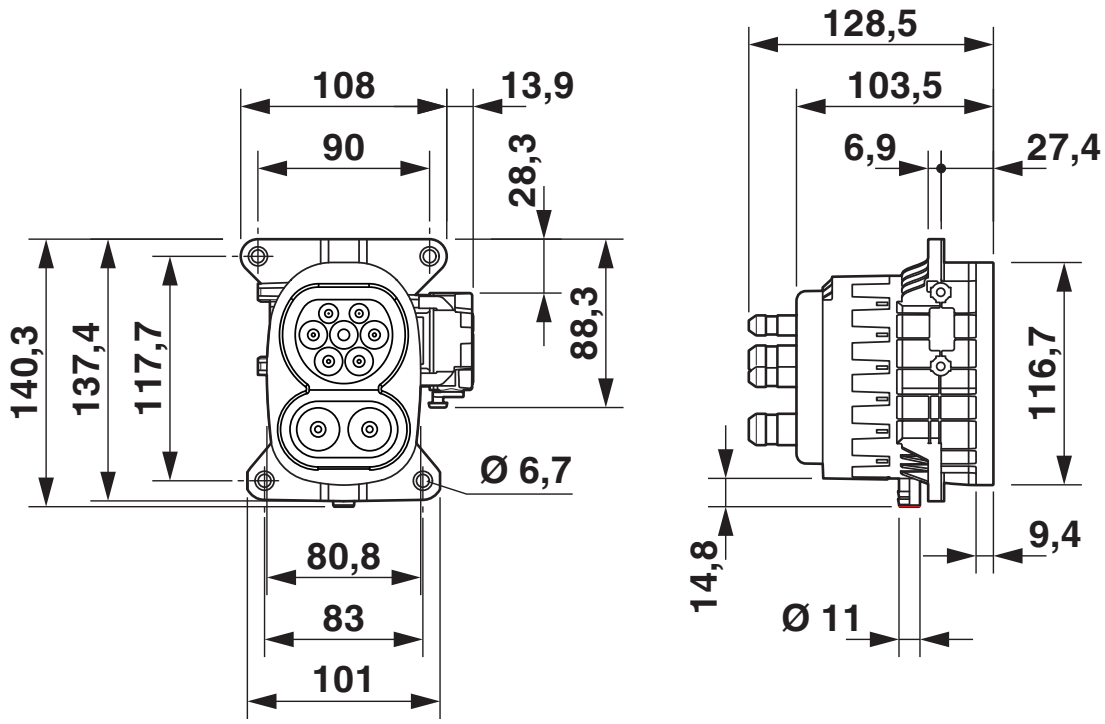
Standards/regulations	IEC 62196-2
	IEC 62196-3

Mounting

Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.80 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none

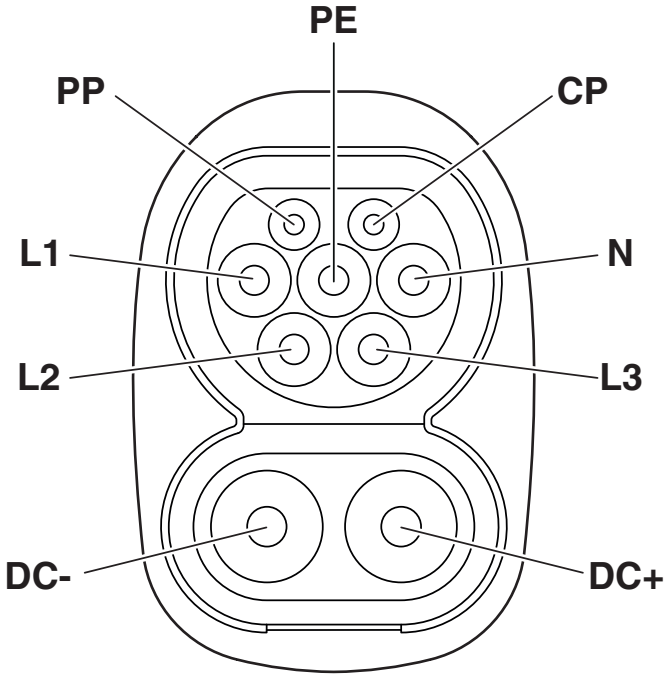
Drawings

Dimensional drawing



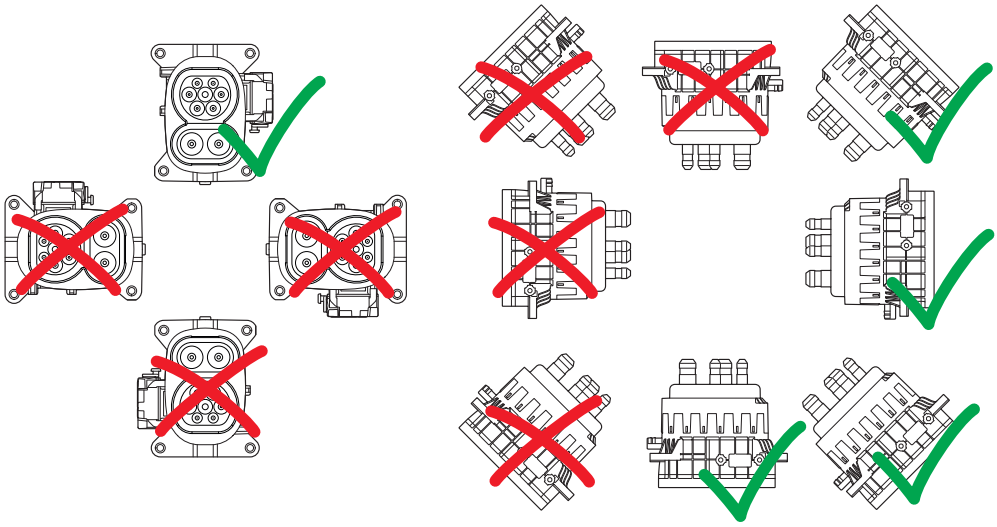
Dimensional drawing

Connection diagram



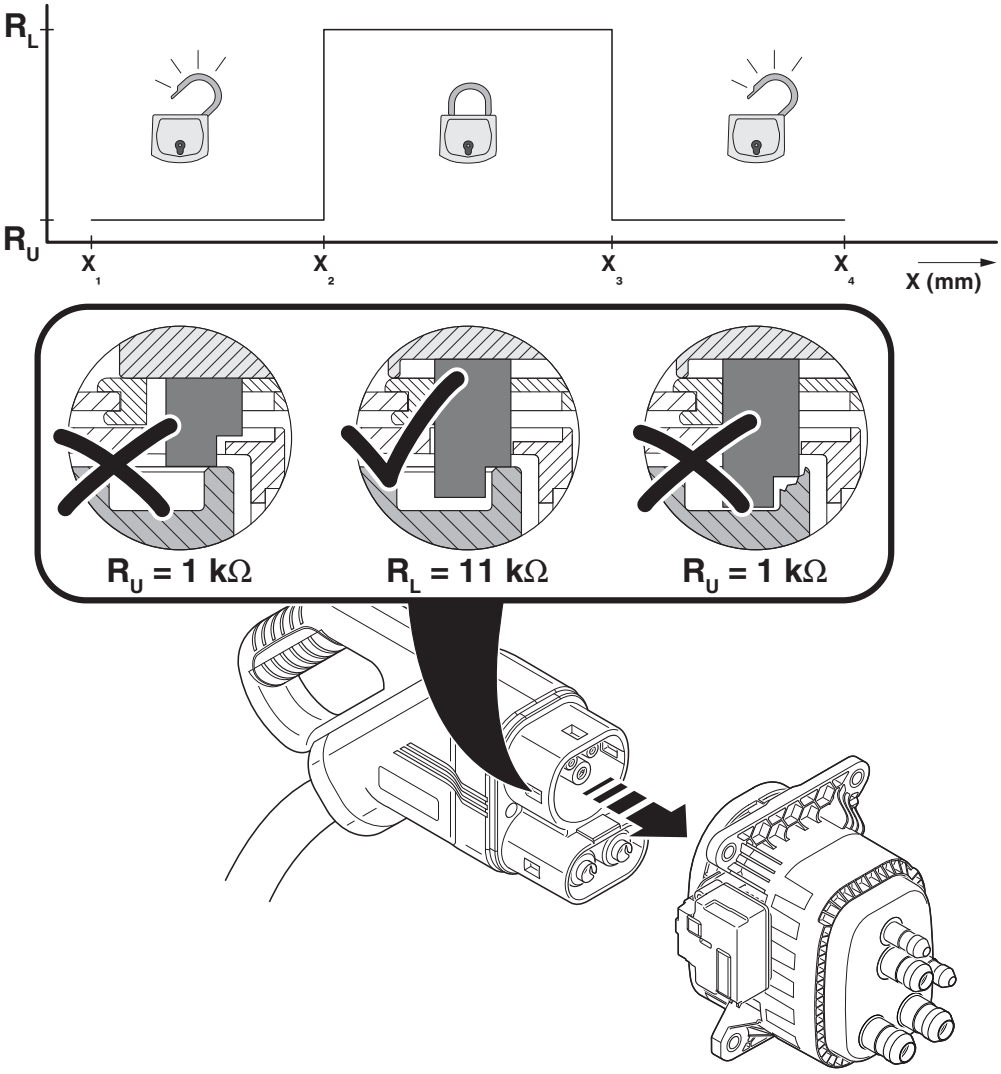
Pin assignment of vehicle charging inlets

Connection diagram



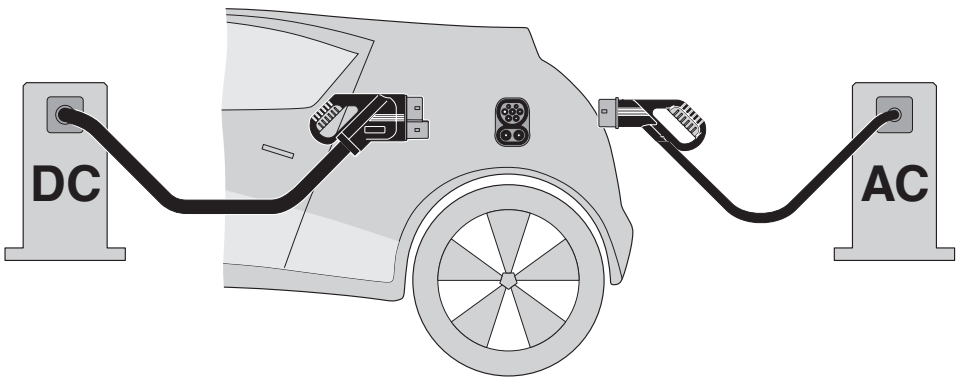
Installation positions

Connection diagram



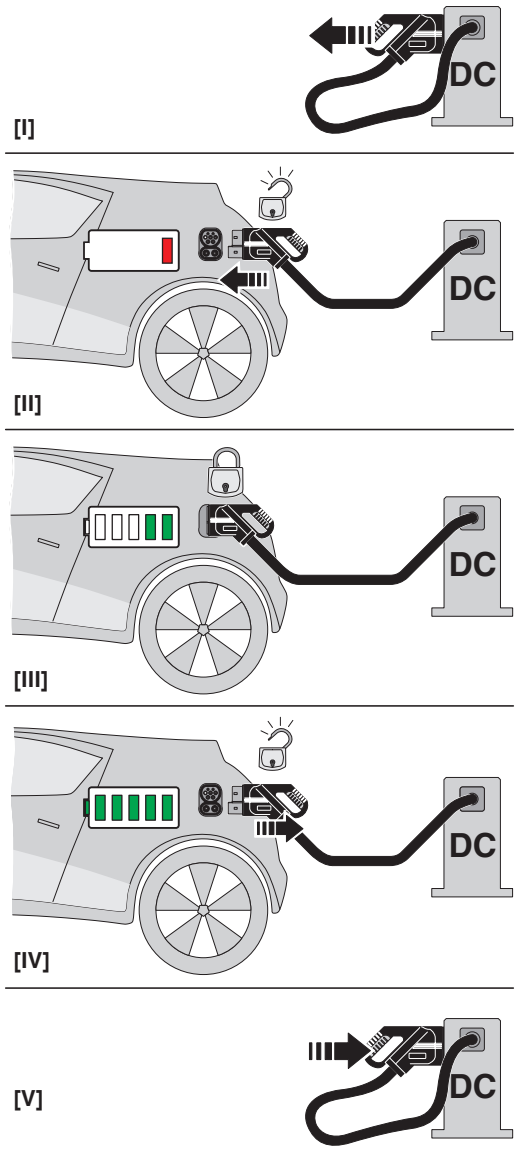
Detection for Vehicle Connector

Schematic diagram



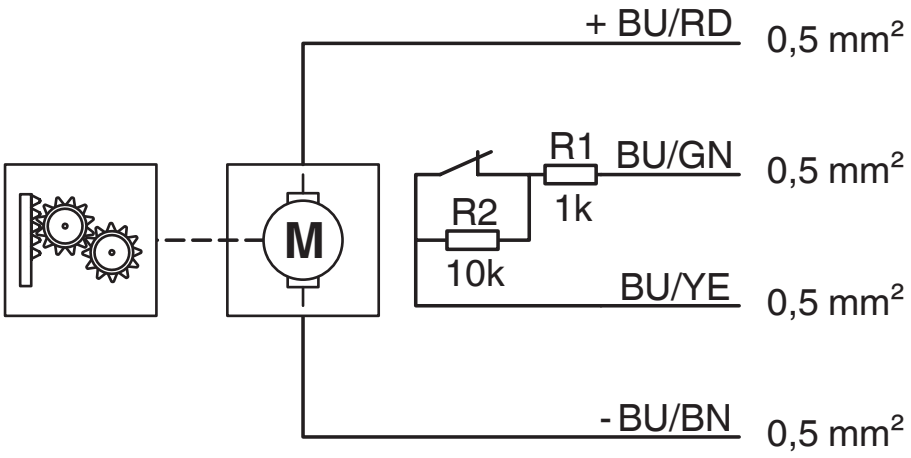
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Schematic diagram



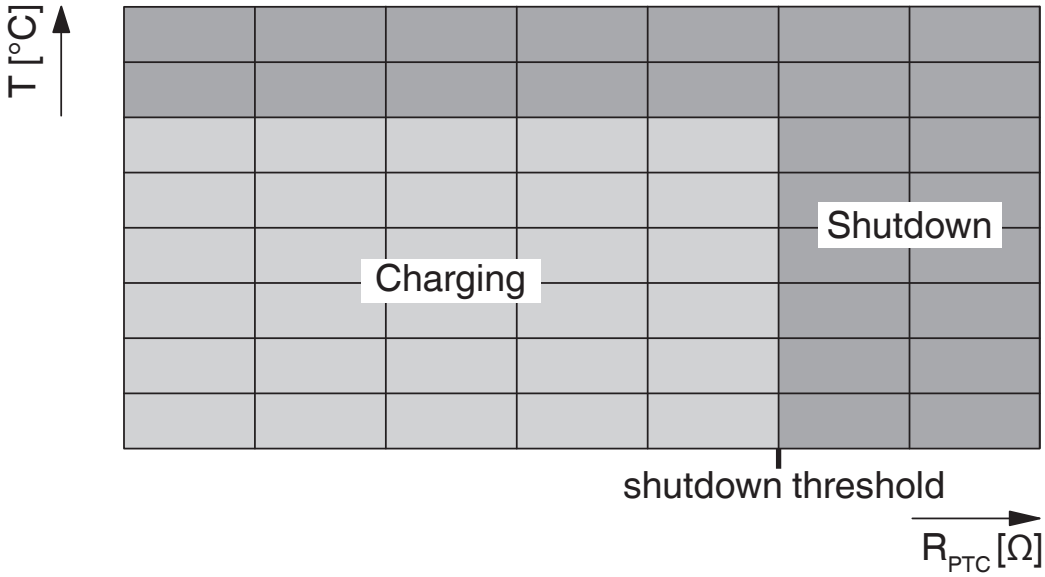
Operating instructions

Schematic diagram



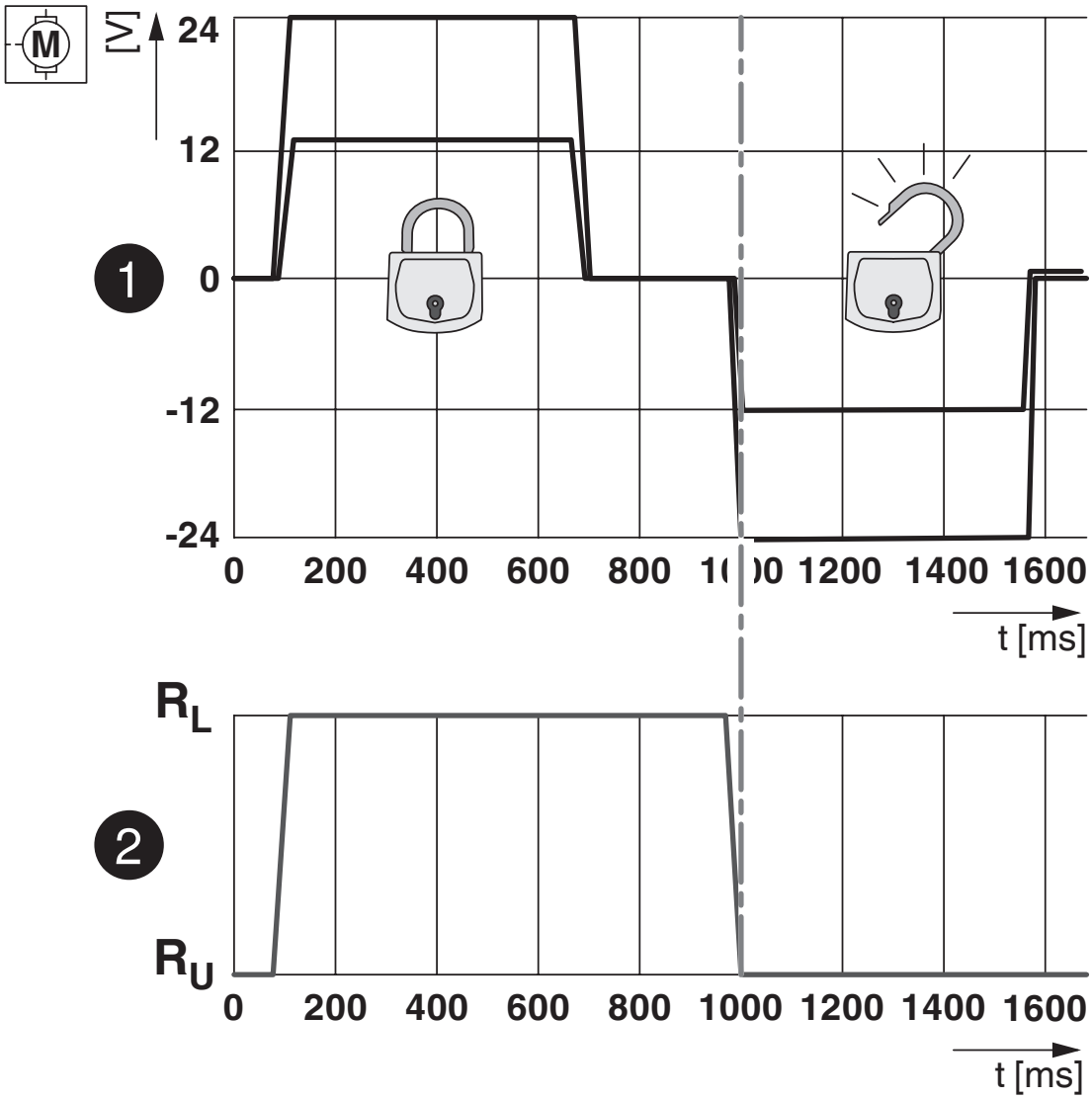
Block diagram of the locking actuator

Schematic diagram



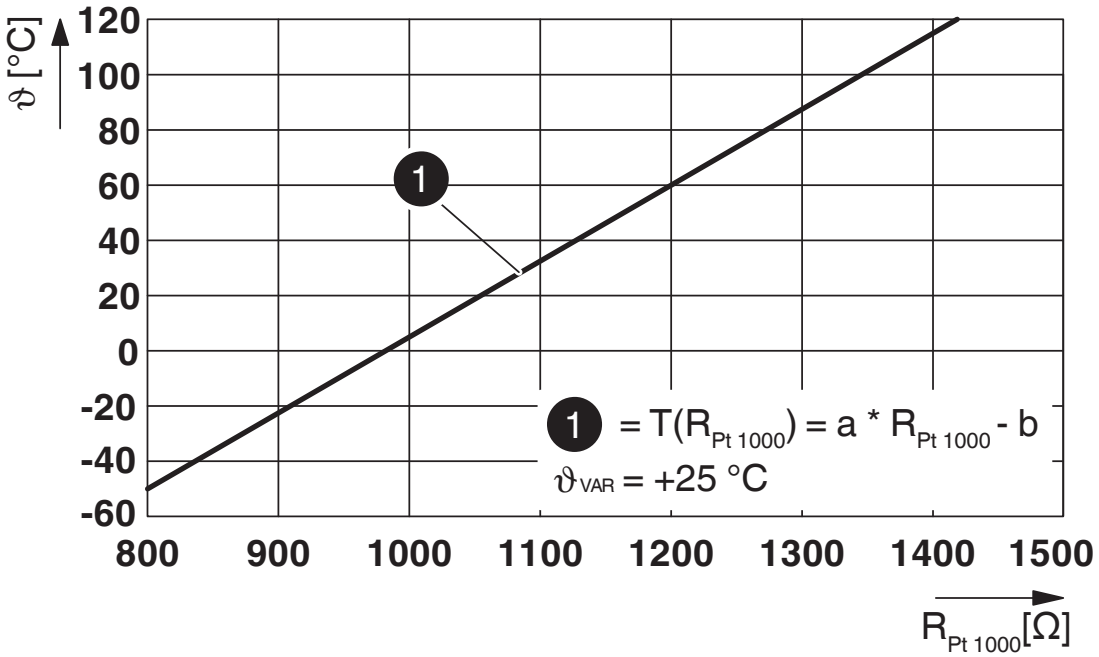
Temperature sensor technology resistance range at AC contacts

Diagram



Locking states of the locking actuator

Diagram



Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

Classifications

ECLASS

ECLASS-13.0	27144706
ECLASS-15.0	27144706

ETIM

ETIM 10.0	EC002898

UNSPSC

UNSPSC 21.0	39121800

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: 15571-58-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	06444638-effa-4457-9dd5-d260e6893d55

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