

EV-T2M3S-E-LOCK24V - Locking



1622317

<https://www.phoenixcontact.com/us/products/1622317>

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CHARX connect modular, Type 2, GB/T, Locking, Accessories, Single wires, length: 0.5 m, locking actuator: 24 V, 4-pos., with single-core wires, without holder, for locking infrastructure charging sockets when plug is inserted, IEC 61851-1



Product description

Locking actuator with 24 V power supply for infrastructure charging sockets and vehicle charging inlets

Your advantages

- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Uniform, space-saving installation space

Commercial data

Item number	1622317
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	EM01
Product key	XWBFYY
GTIN	4055626033808
Weight per piece (including packing)	154.8 g
Weight per piece (excluding packing)	95 g
Customs tariff number	85011099
Country of origin	DE

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Technical data

Product properties

Product type	Locking actuator
Product family	CHARX connect modular
Application	for locking infrastructure charging sockets when plug is inserted
Design	with single-core wires without holder
Compatibility	CHARX connect modular CHARX connect basic (additional holder required, see accessories)
Charging standard	Type 2 GB/T
Charging mode	Mode 2, 3, 4

Electrical properties

Locking actuator

Locking actuator	24 V, 4-pos. Position can be freely selected
Possible power supply range at the motor	22 V ... 26 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.05 A
Reverse current of the motor	max. 0.5 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)	-30 °C ... 50 °C

Material specifications

Color (Locking)	black (9005)
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Cable/line

Cable length	0.5 m
Cable type	Single wires
Cable structure	4 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	BU/RD BU/GN BU/YE BU/BN

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External cable diameter	1.60 mm $\pm$ 0.20 mm
Cable resistance	$\leq$ 37.1 Ω /m

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

Standards and regulations

Standards

Standards/regulations	IEC 61851-1
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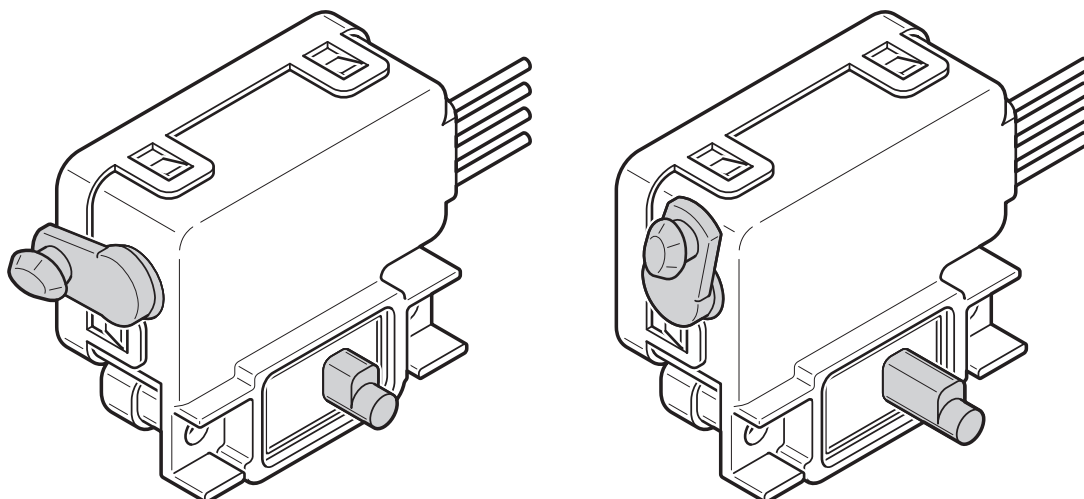
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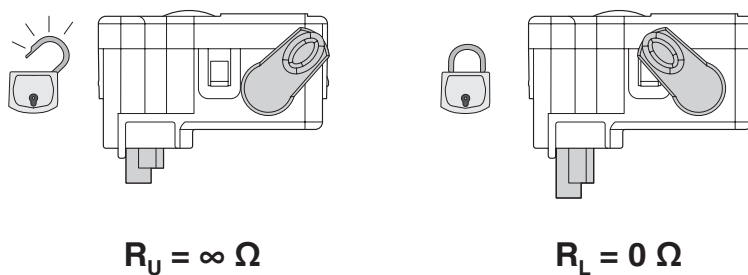
Drawings

Schematic diagram

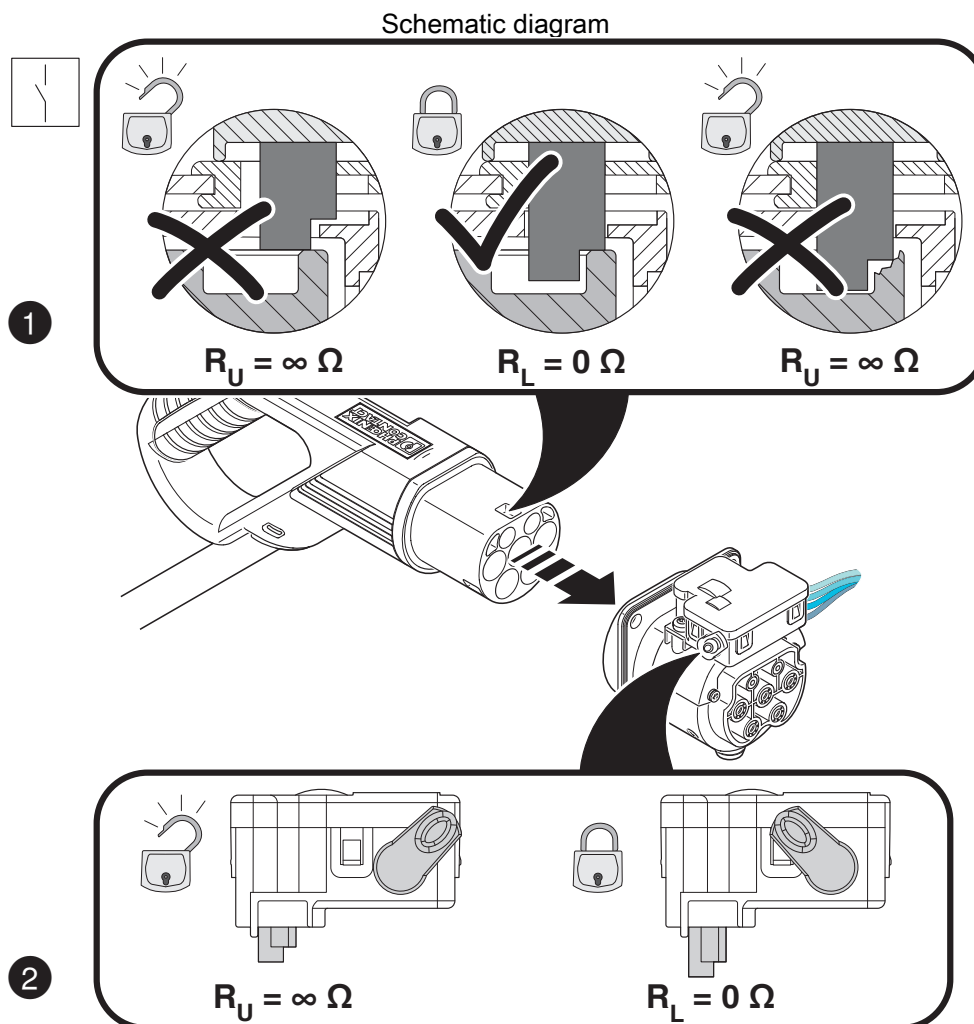


Lever positions for emergency release

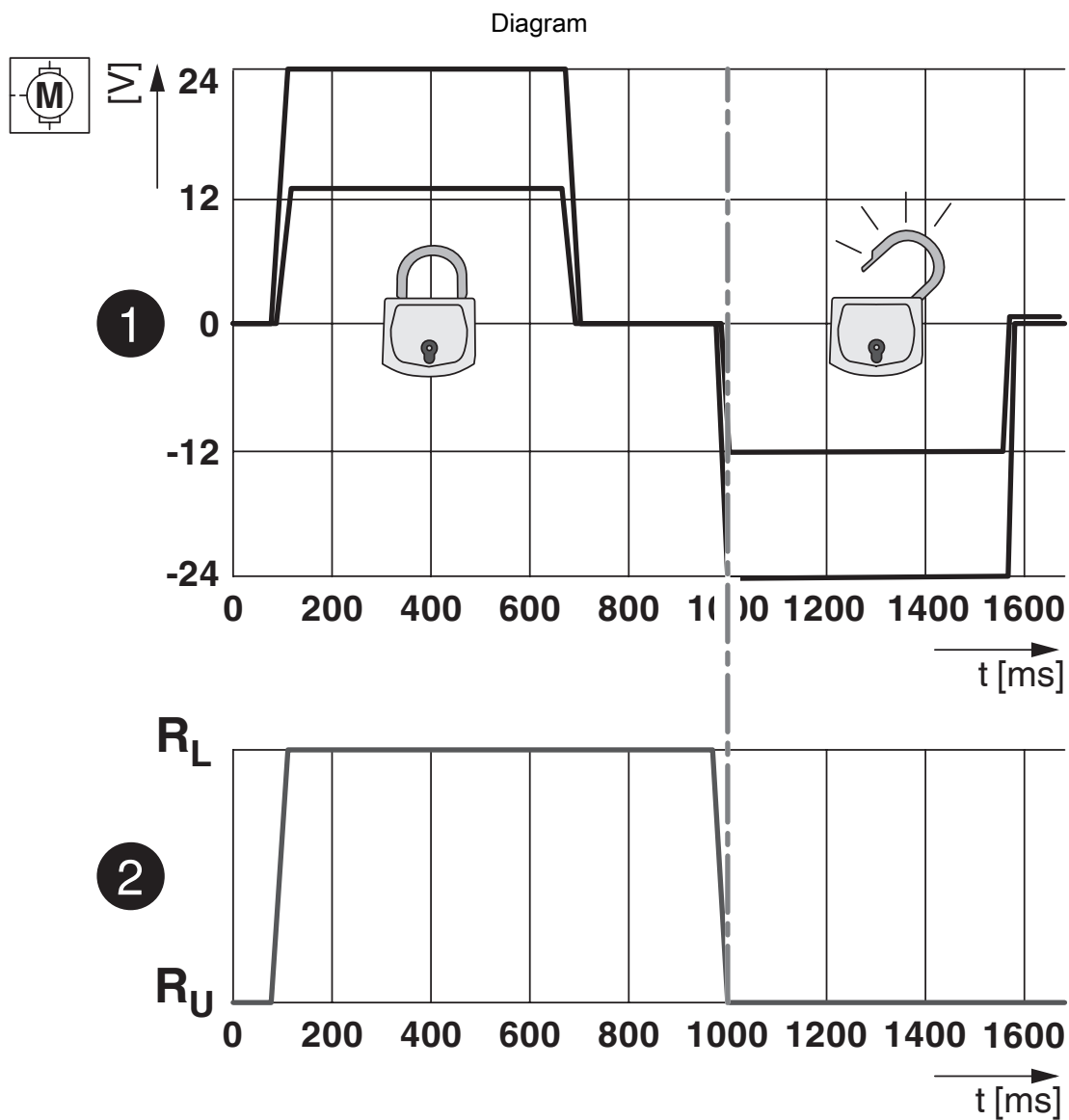
Schematic diagram



Lever positions for emergency release



Detection of the Infrastructure Plug



Locking states of the locking actuator

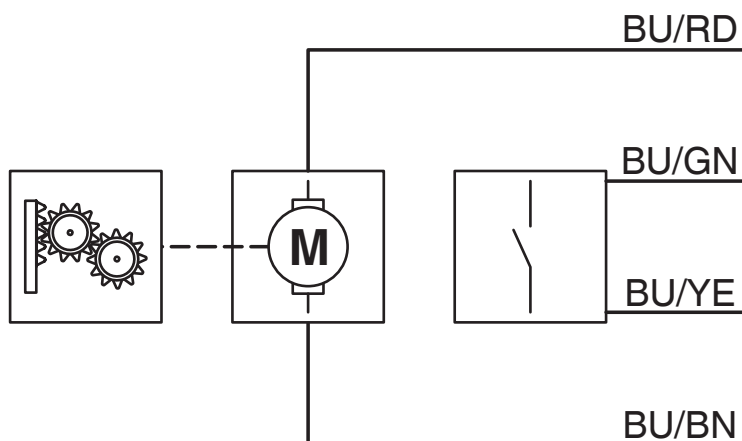
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Block diagram



Block diagram of the locking actuator

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Classifications

ECLASS

ECLASS-15.0	27144792
ECLASS-13.0	27144792

ETIM

ETIM 9.0	EC002884
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, No electrical and electronic equipment (EEE), cannot be used in EEE
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EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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