

# 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 <sup>2</sup>
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 $\Omega$ /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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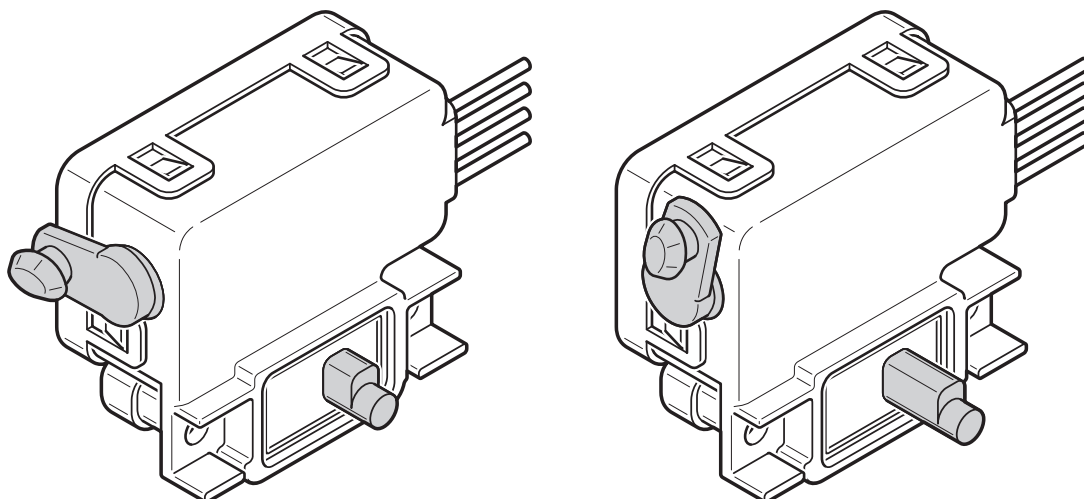
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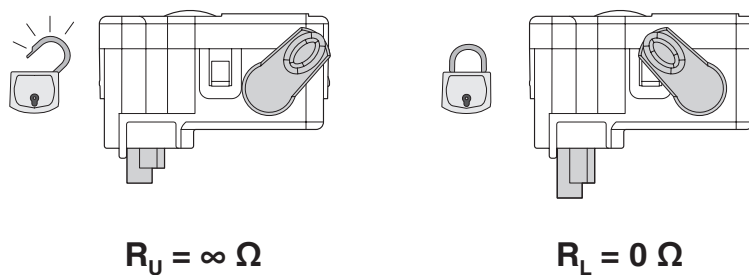
## Drawings

Schematic diagram

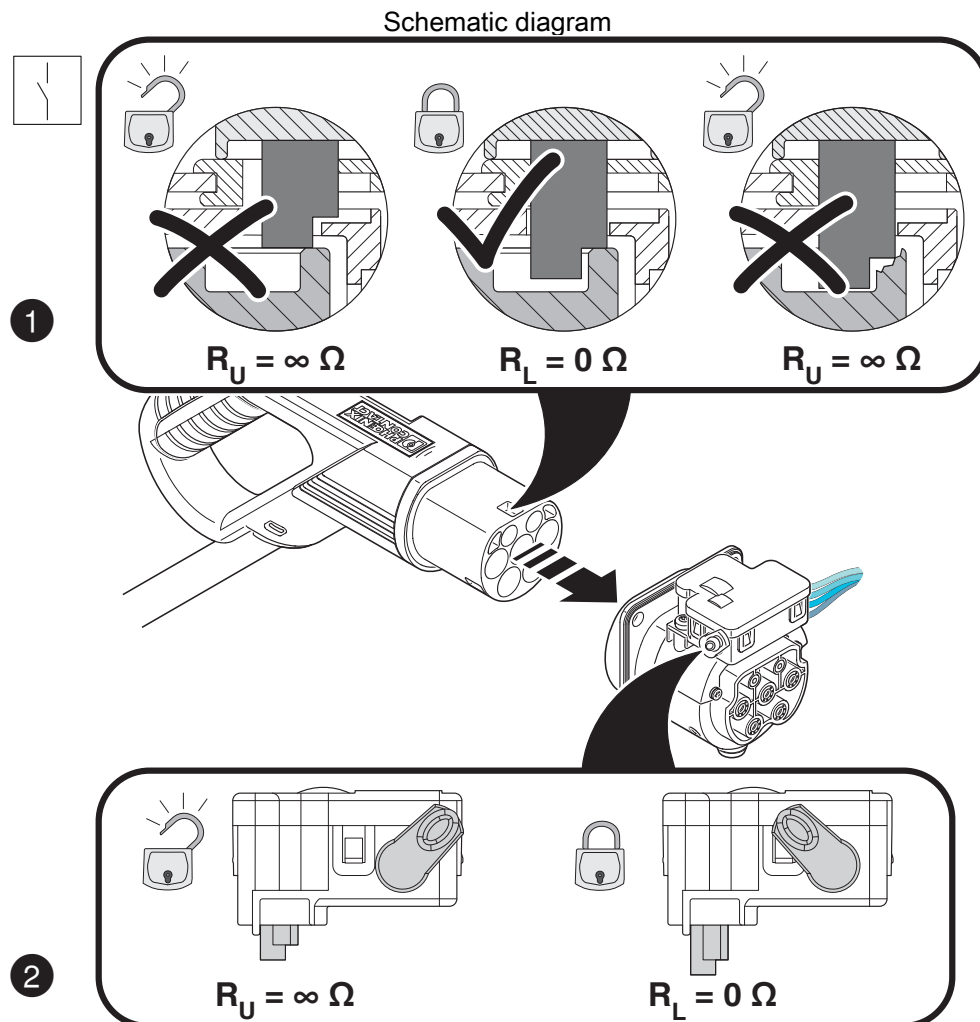


Lever positions for emergency release

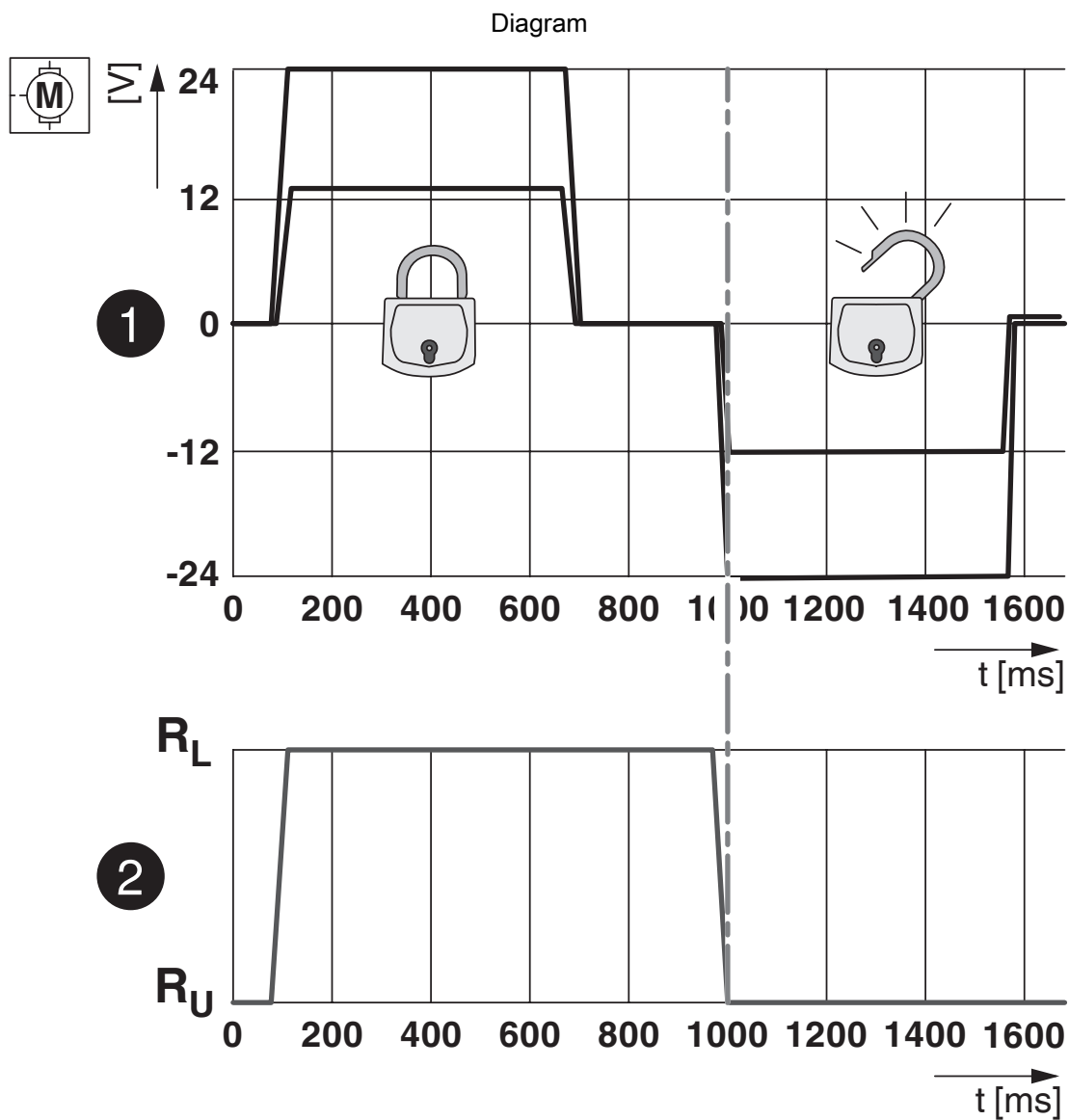
Schematic diagram



Lever positions for emergency release



Detection of the Infrastructure Plug



Locking states of the locking actuator

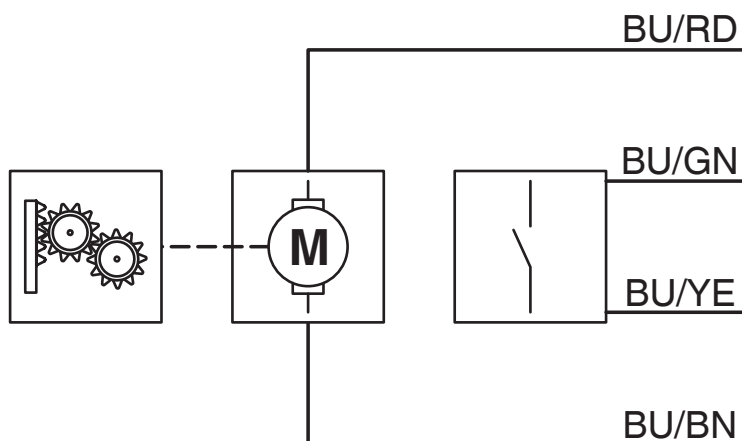
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Block diagram



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

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