

# EV-T2M3S-E-LOCK12V - Locking



1624129

<https://www.phoenixcontact.com/us/products/1624129>

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CHARX connect modular, Type 2, GB/T, Locking, Accessories, Single-core wires connected at one end, length: 0.5 m, locking actuator: 12 V, 4-pos., for attachment to infrastructure charging sockets, IEC 61851-1



## Product description

Locking actuator with 12 V power supply for infrastructure charging sockets

## 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	1624129
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBFAC
GTIN	4055626239880
Weight per piece (including packing)	152 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
Type	Accessories
Charging standard	Type 2
	GB/T
Charging mode	Mode 2, 3, 4

### Electrical properties

#### Locking actuator

Locking actuator	12 V, 4-pos.
	Position can be freely selected
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.2 A
Reverse current of the motor	max. 1 A
Max. dwell time with reverse current	1000 ms
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-core wires connected at one end
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
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

### Environmental and real-life conditions

#### Ambient conditions

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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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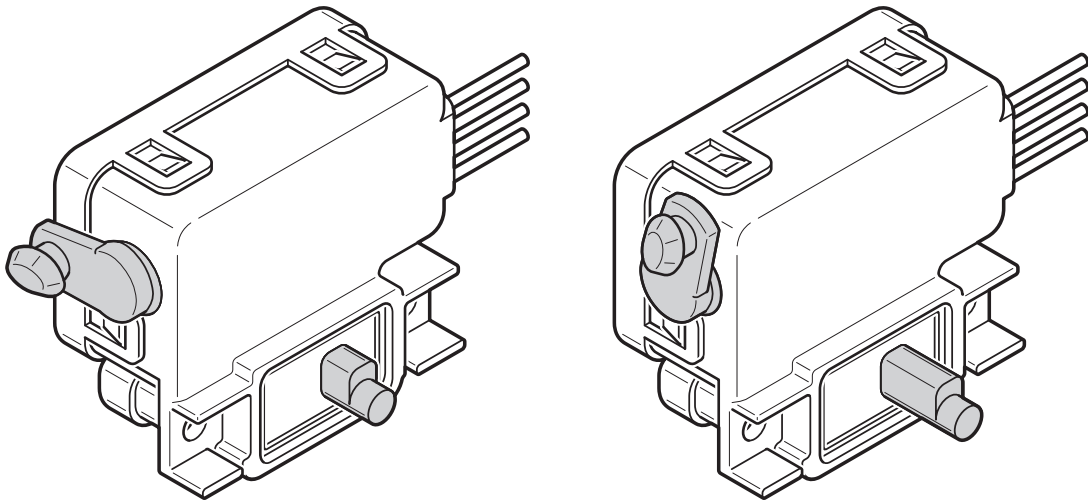
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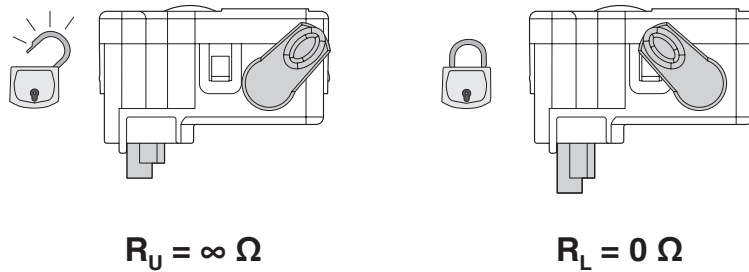
## Drawings

Schematic diagram



Lever positions for emergency release

Schematic diagram

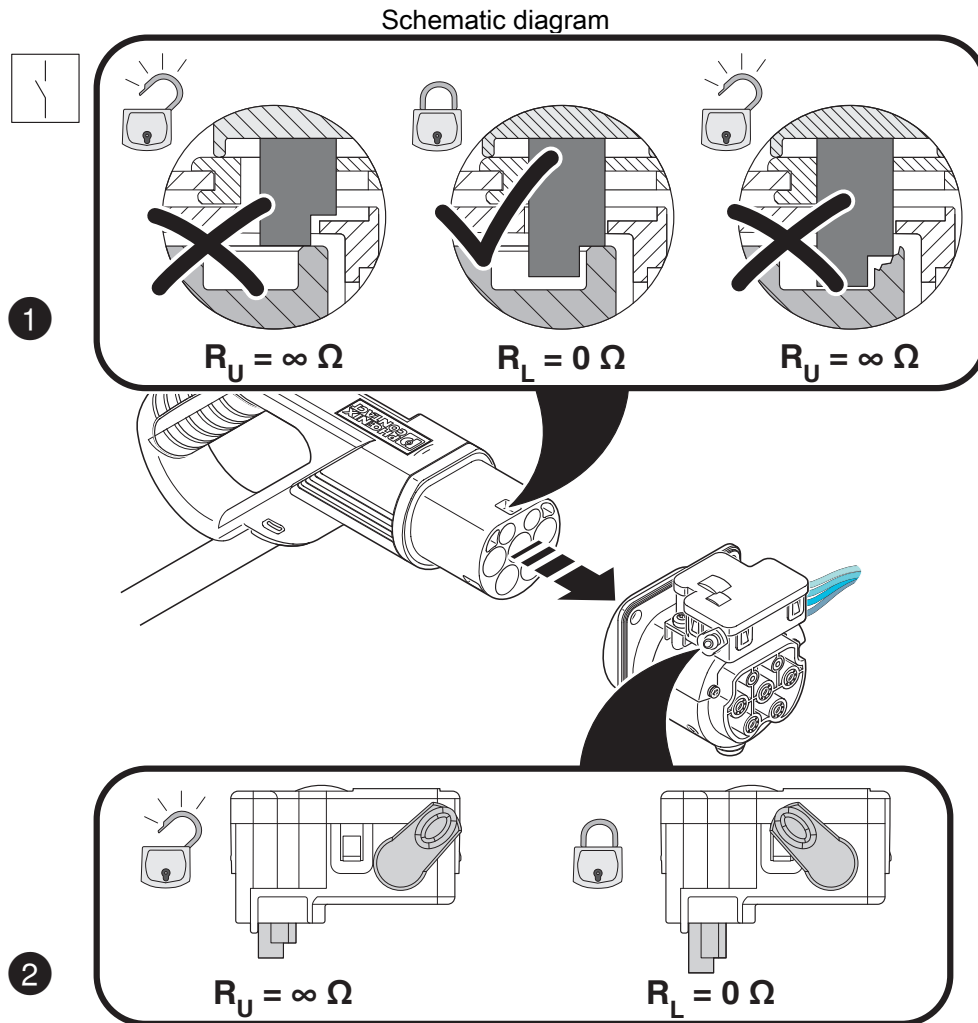


Lever positions for emergency release

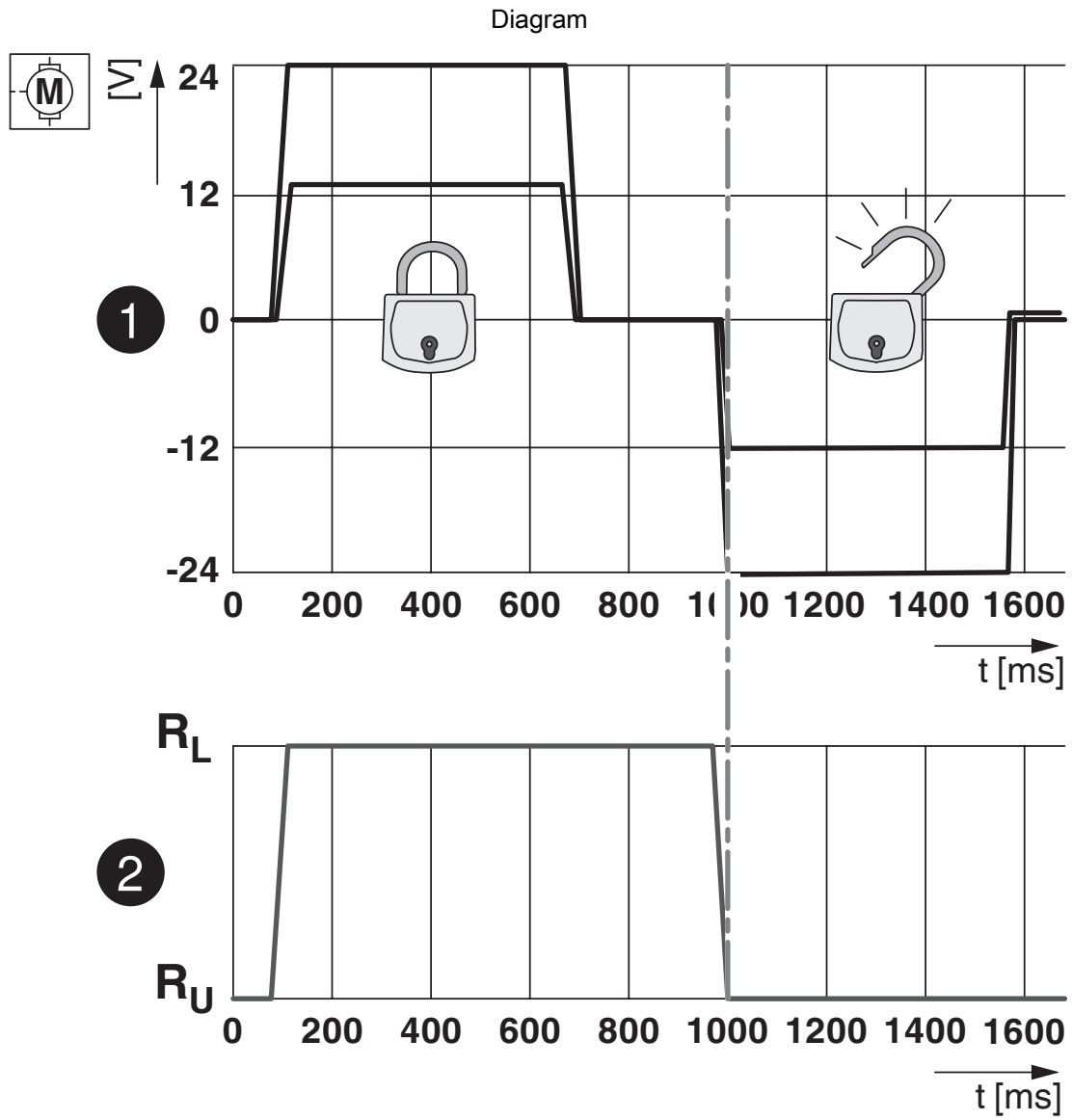
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Detection of the Infrastructure Plug



Locking states of the locking actuator

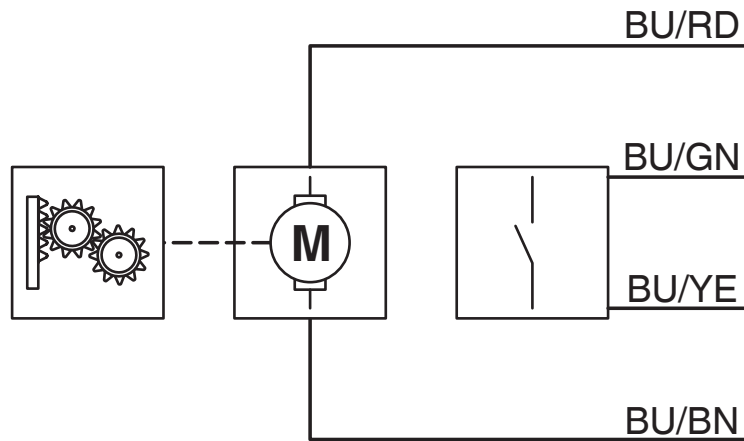
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Block diagram



Block diagram of the locking actuator

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## Classifications

### ECLASS

ECLASS-13.0	27144792
ECLASS-15.0	27144792

### ETIM

ETIM 10.0	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.)	Lead(CAS: 7439-92-1)
SCIP	c86cccb9-5c52-42c7-9d6e-afffab27783a

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