

EV-T2M3S-E-LOCK12V - Locking



1624129

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

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



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	XWBAFC
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
Application	for attaching to infrastructure charging sockets
Type	Accessories
Charging standard	Type 2
	GB/T
Charging mode	Mode 2, 3, 4

Electrical properties

Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	any

Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	any
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 wires
Cable structure	4 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	BU/RD
	BU/GN

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	BU/YE
	BU/BN
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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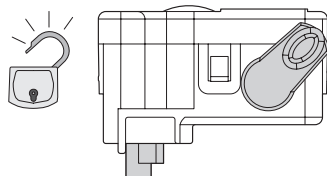
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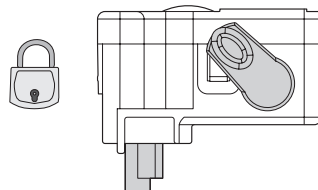


Drawings

Schematic diagram



$$R_U = \infty \Omega$$



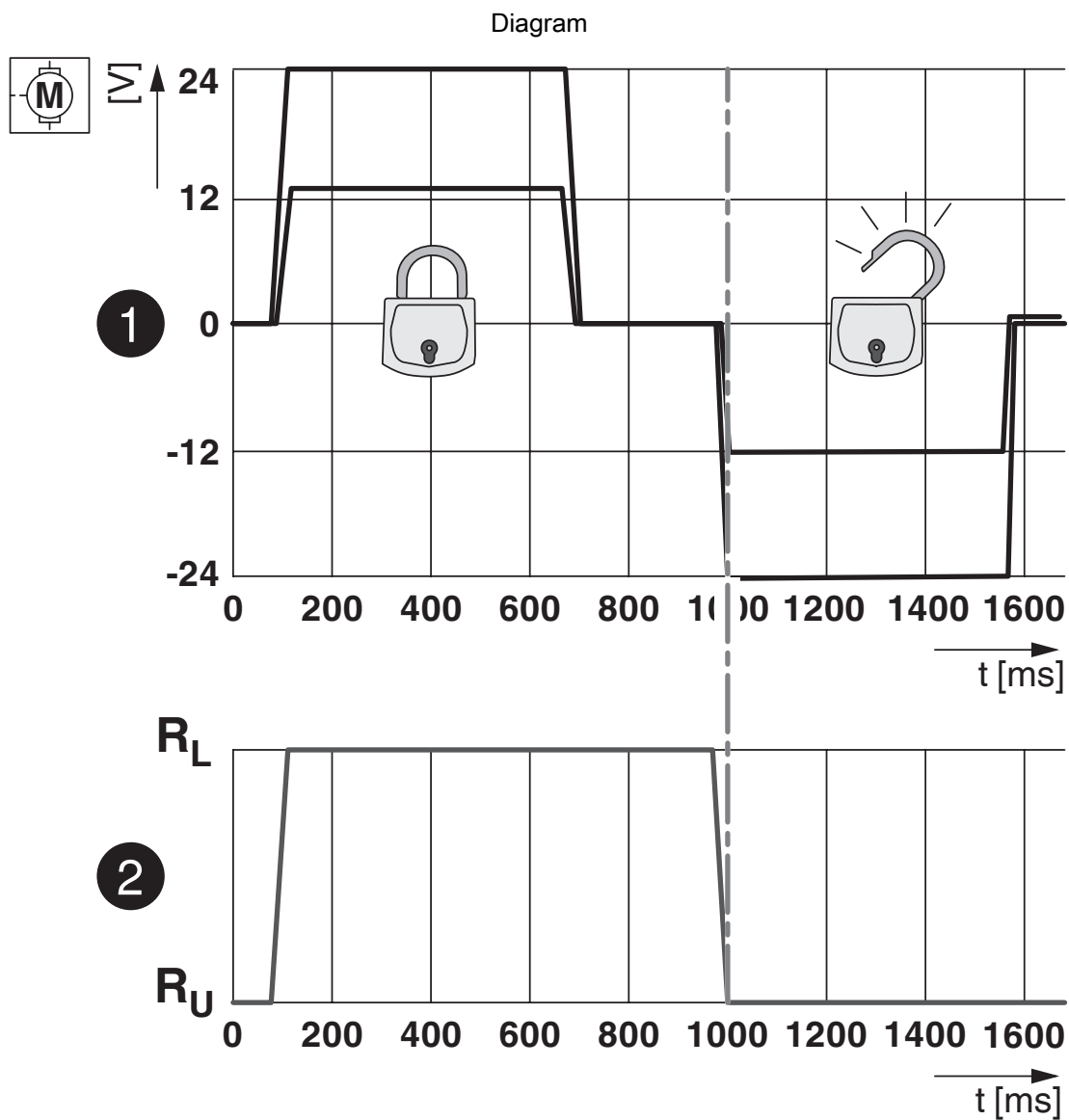
$$R_L = 0 \Omega$$

Lever positions for emergency release

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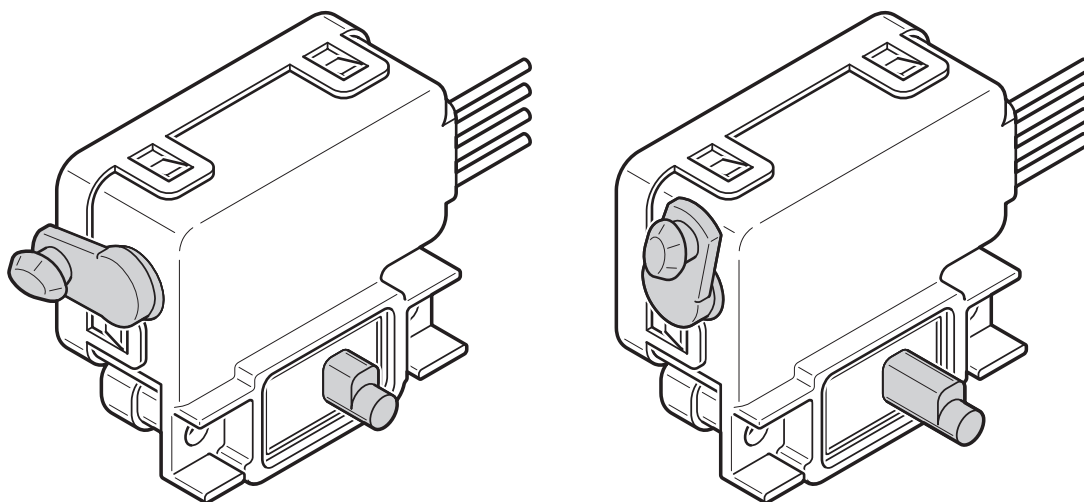
Locking states of the locking actuator

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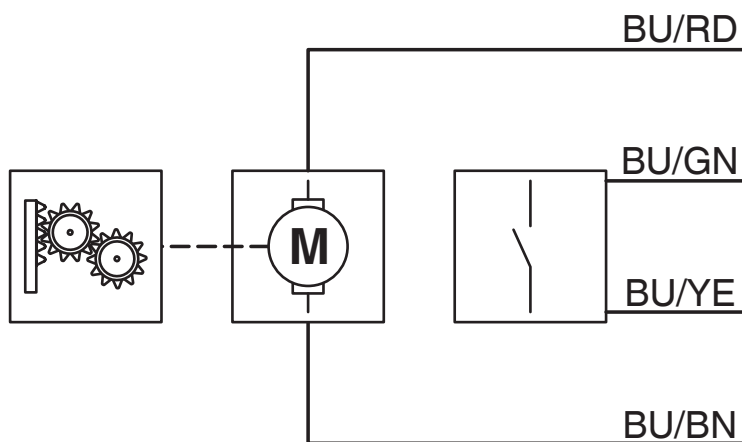
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Schematic diagram



Lever positions for emergency release

Block diagram

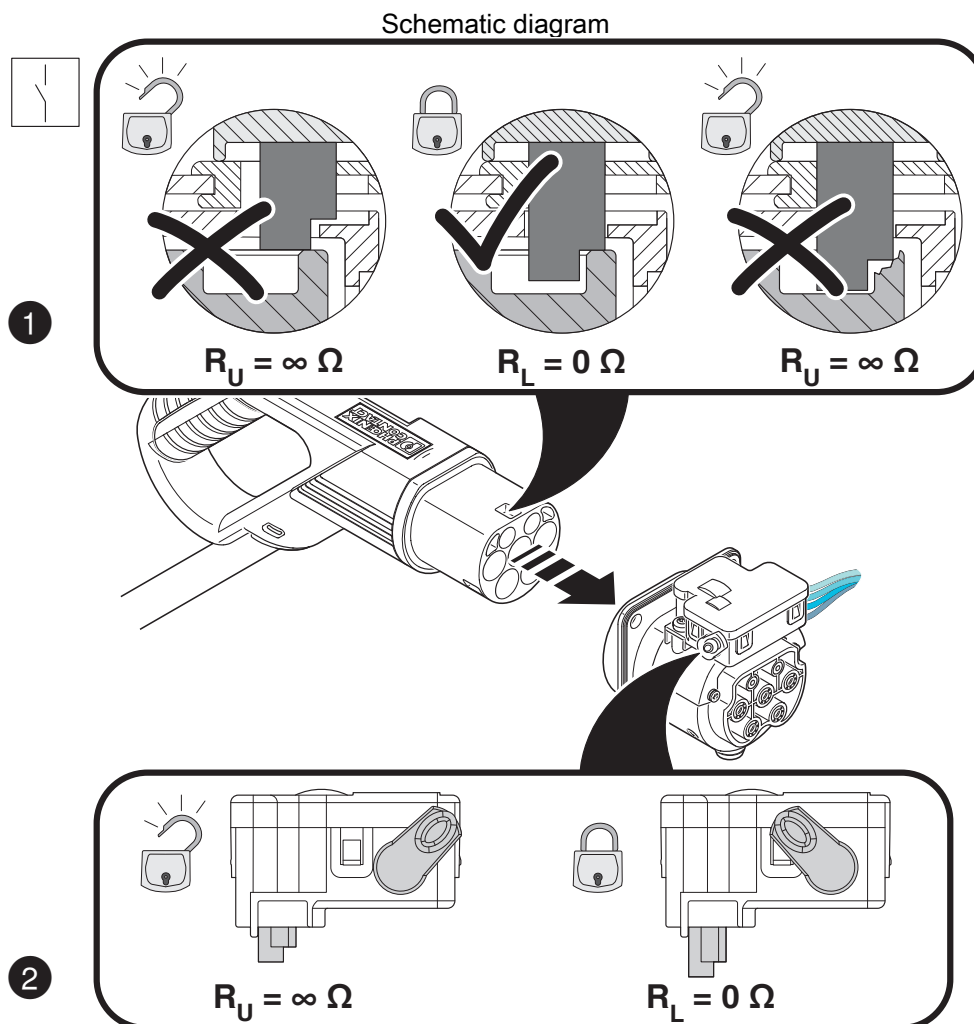


Block diagram of the locking actuator

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Detection of the Infrastructure Plug

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Classifications

ECLASS

ECLASS-11.0	27144792
ECLASS-12.0	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	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	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.)	Lead(CAS: 7439-92-1)
SCIP	c86cccb9-5c52-42c7-9d6e-afffab27783a

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Accessories

EV-T2M3S-E-LOCK-HOLDER - Holder

1065832

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CHARX connect modular, Holder, Accessories, for mounting the 4-pole locking actuator on infrastructure charging sockets, Type 2, GB/T, IEC 61851-1



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