EV-T2M3S-E-LOCK24V - Locking

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	XWBAFC
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

Technical data

Product properties

Product type	Locking actuator
Product family	CHARX connect modular
Application	for locking infrastructure charging sockets when plug is inserted
Type	Accessories
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)

Cable/line

Cable length	0.5 m
Cable type	Single wires
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

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

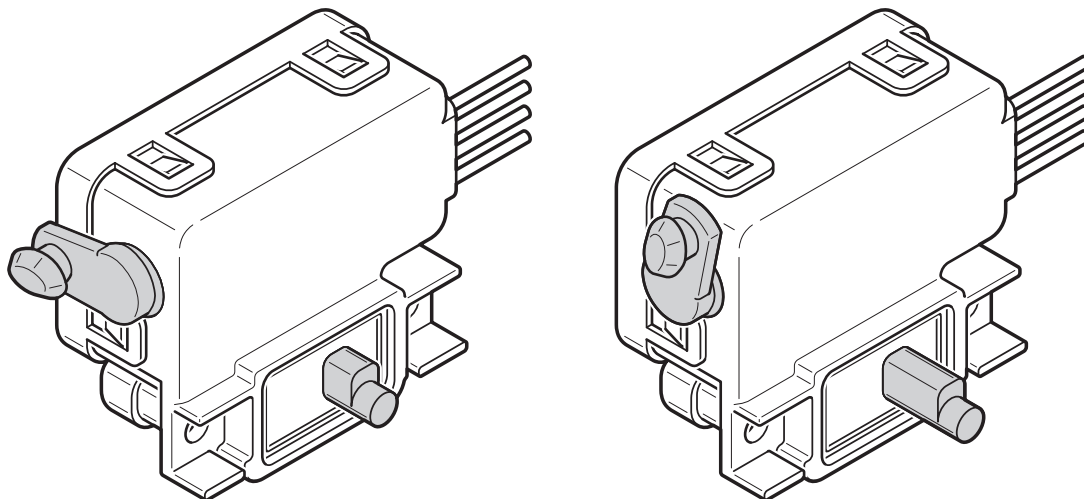### Standards

Standards/regulations	IEC 61851-1

Drawings

Schematic diagram

Lever positions for emergency release

Schematic diagram

$$R_U = \infty \ \Omega \qquad R_L = 0 \ \Omega$$

Lever positions for emergency release

Schematic diagram

1

$R_U = \infty \ \Omega$ $R_L = 0 \ \Omega$ $R_U = \infty \ \Omega$

2

$R_U = \infty \ \Omega$ $R_L = 0 \ \Omega$
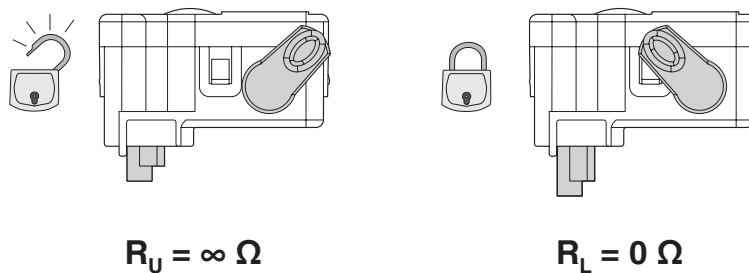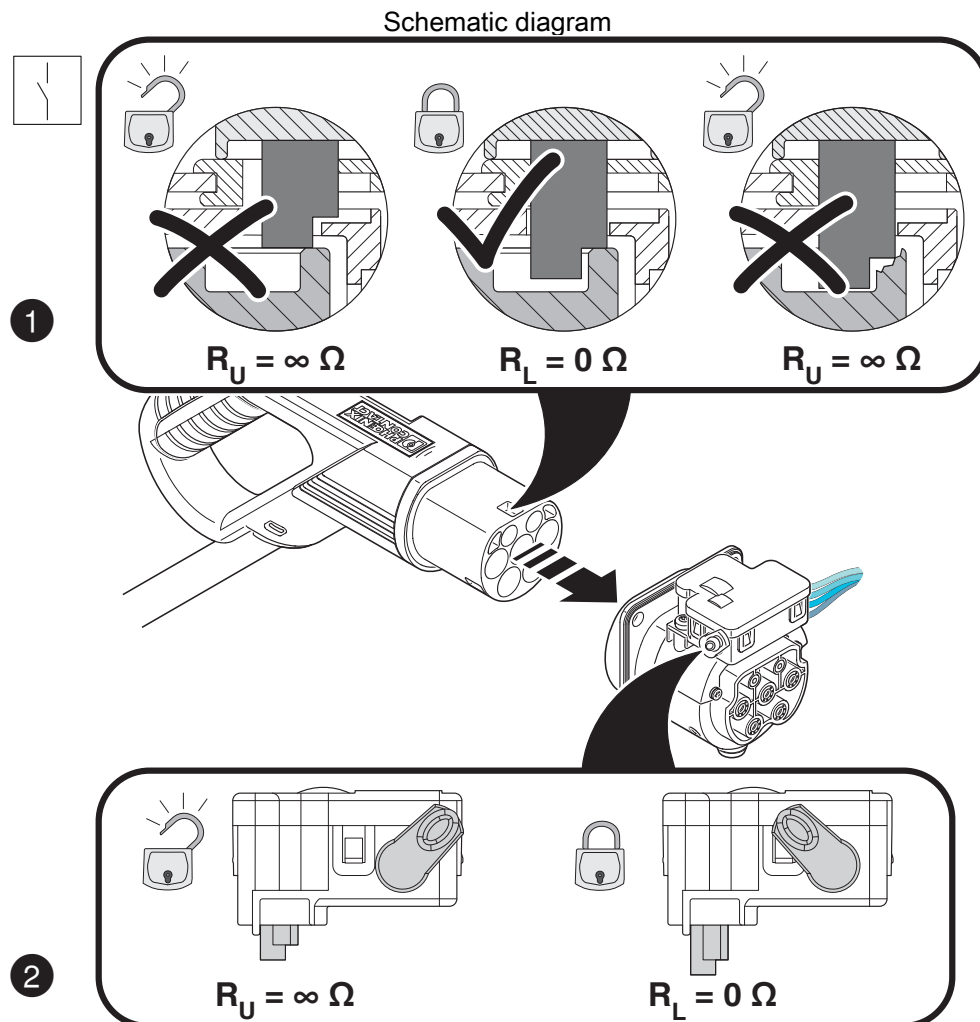
Detection of the Infrastructure Plug

1622317

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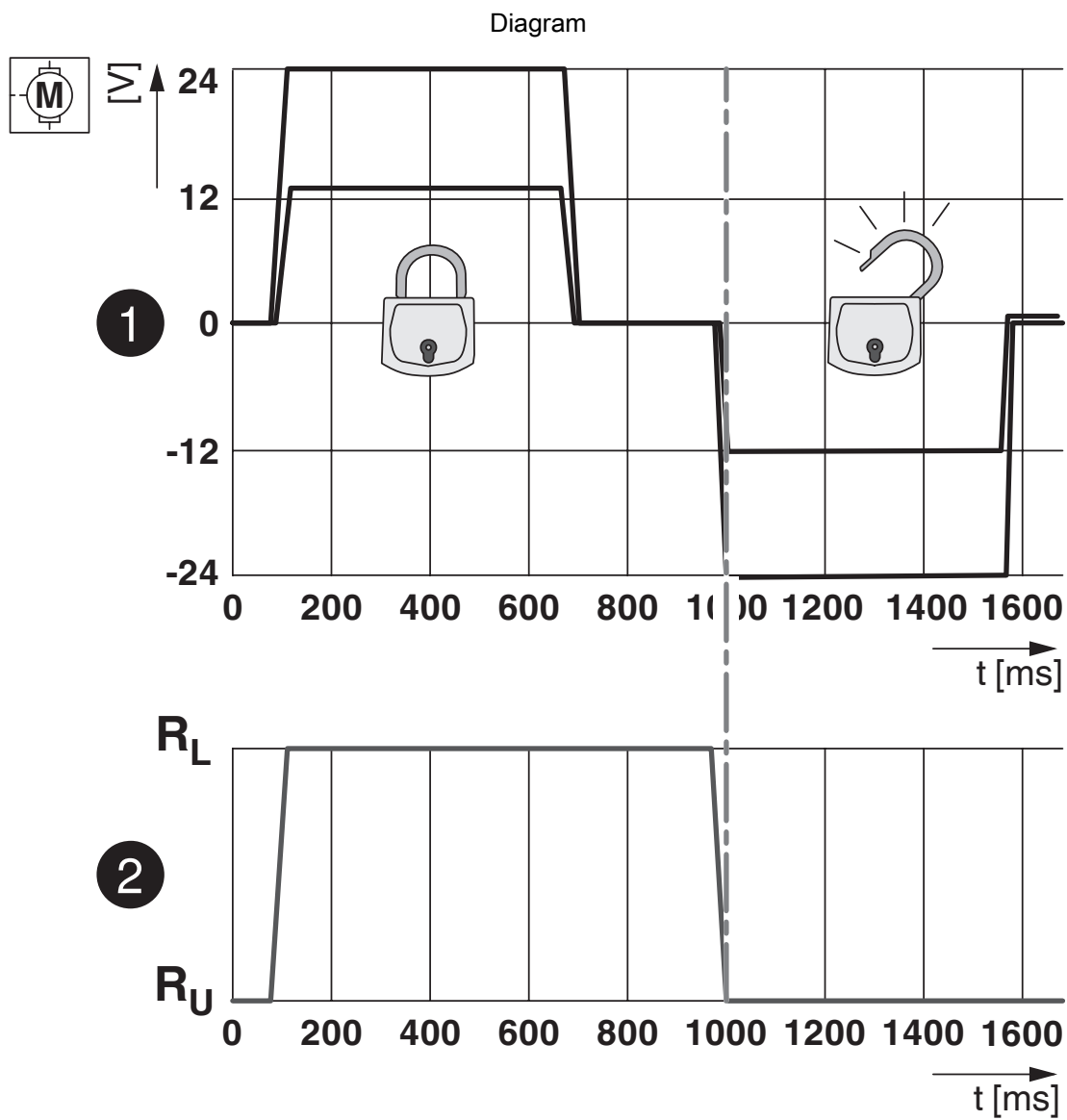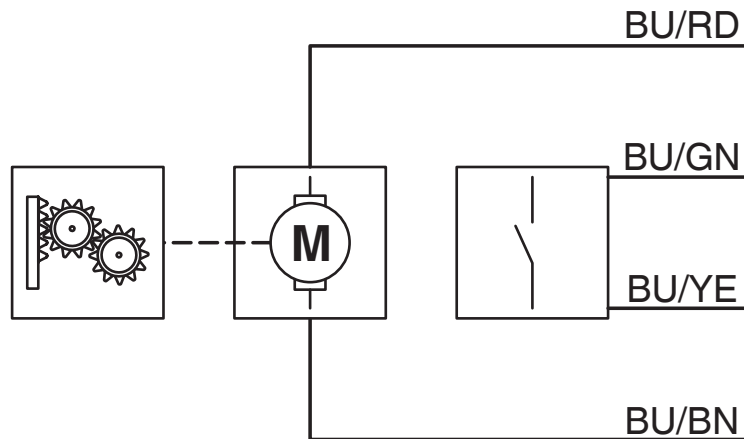
Diagram

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

ETIM

ETIM 9.0	EC002884

UNSPSC

UNSPSC 21.0	39121500

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

EU REACH SVHC

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