

EM-CP-PP-ETH - AC charging controller



2902802

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EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

Commercial data

Item number	2902802
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBBBA
Catalog page	Page 61 (C-7-2019)
GTIN	4046356681032
Weight per piece (including packing)	322.8 g
Weight per piece (excluding packing)	260 g
Customs tariff number	85371098
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	AC charging controller
Product family	CHARX control advanced
Application	AC charging controller for commercial applications (EU)
Operating mode	Stand-Alone Client
Charging standard	Type 2
Charging mode	Mode 3, Case B + C

System properties

Charging controllers

Number of charging points	1
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Electrical properties

Type of charging current	AC 3-phase
Current consumption	< 1 W
Locking release in the event of mains failure	With EM-EV-CLR-12V locking release module (Item No. 2903246) as an option

Supply

Supply voltage	230 V
Supply voltage range	110 V AC ... 240 V AC (nominal voltage range) 95 V AC ... 264 V AC
Max. current consumption	40 mA
Nominal power consumption	< 1 W (No-load)
Frequency range	45 Hz ... 65 Hz

Input data

Digital

Number of digital inputs	4
Frequency range	50 Hz ... 60 Hz
Nominal current I_N	≤ 8 mA
Nominal input voltage U_N	24 V
Input voltage range U1	-3 V ... 5 V (Off)
Input voltage range U2	15 V ... 30 V (On)

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Output data

Digital

Output name	4 digital outputs
Connection technology	Screw connection
Maximum output voltage	30 V
Maximum output current	0.2 A (Total current for all outputs; internally supplied)
Maximum output current per channel	0.6 A (Per output; externally supplied)

Digital

Output name	Relay output V _{1,2}
Maximum switching voltage	250 V AC
Max. switching current	2 A

Switching

Output name	Relay output C _{1,2}
Minimum switching capacity	1500 VA
Maximum switching voltage	250 V AC (External supply)
Max. switching current	2 A

Switching

Output name	Relay output R _{1,3} and R _{2,4}
Minimum switching capacity	180 VA
Maximum switching voltage	30 V AC/DC (External supply)
Max. switching current	2 A

Connection data

Conductor connection

Connection method	Screw connection
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Interfaces

Interface	Ethernet (1x)
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RS-485

Interface	RS-485 2-wire
Bus system	RS-485
Connection method	Screw connection
Number of interfaces	1
Number of supported devices	1
Transmission speed	9.6 kbps (Standard)
Transmission speed range	2.4 kbps ... 19.2 kbps (adjustable)
Data flow control/protocols	Modbus/RTU (slave)

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Ethernet

Interface	Ethernet
Bus system	RJ45
Connection method	RJ45 jack
Number of interfaces	1
Serial transmission speed	10/100 Mbps
Transmission length	max. 100 m (with shielded, twisted-pair data cable)
Protocols supported	Modbus/TCP

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)

Approvals

Conformity/Approvals

Conformance	CE-compliant
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EMC data

Low Voltage Directive	Conformance with LV directive 2006/95/EC
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Housing	DIN 43880
Noise emission	EN 61000-6-3

Standards and regulations

Standards

Standards/regulations	IEC 61851-1
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

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Classifications

ECLASS

ECLASS-11.0	27144703
ECLASS-12.0	27144703
ECLASS-13.0	27144703

ETIM

ETIM 9.0	EC002889
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UNSPSC

UNSPSC 21.0	39121800
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com