

CHARX CONTROL-M2/150KW - DC charging controller



1311433

<https://www.phoenixcontact.com/us/products/1311433>

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CHARX control integrated, Power control unit for the construction of DC charging stations, 19" rack mounting, input: 0 V DC...1000 V DC, output: 0 V DC...1000 V DC / 0 A DC...500 A DC



Product description

CHARX control integrated combines all functions required to control and monitor your 19" charging station. The control module manages up to five 30 kW power modules for fast DC charging up to 150 kW. It simplifies the planning, installation, and maintenance of your charging station, because it combines all the necessary components, such as charging controller, insulation monitoring, power contactors, fuse, 24 V auxiliary power supply, and many other components.

Your advantages

- Efficient and space-saving, as all functions are combined in one highly integrated device
- Fast installation and maintenance with 19" standard and push-in fast connection
- Compliant with European safety and EMC standards in accordance with EN 61000
- Flexible use with free choice of charging controller programming in accordance with IEC 61131
- Easy system integration and remote access with comprehensive interfaces

Commercial data

Item number	1311433
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMERZE
GTIN	4063151562816
Weight per piece (including packing)	14,000 g
Weight per piece (excluding packing)	13,000 g
Country of origin	IN

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Technical data

Input data

DC power channels

Number of DC input channels	5
Input voltage range	5x 0 V DC ... 1000 V DC
Input current	max. 150 A DC (per channel)

Digital

Number of digital inputs	4
Connection method	Push-in connection
Input name	can be freely assigned
Input voltage range Signal range	-0.5 V DC ... 30 V DC
Input voltage range 0 signal	-0.5 V DC ... 5 V DC ("0" signal)
Input voltage range 1 signal	15 V DC ... 30 V DC ("1" signal)
Typical response time	min. 3 ms
Cable length	max. 30 m

Digital

Number of digital inputs	2
Input name	Emergency switching off channels
Input voltage range Signal range	-0.5 V DC ... 30 V DC
Input voltage range 0 signal	-0.5 V DC ... 5 V DC ("0" signal)
Input voltage range 1 signal	15 V DC ... 30 V DC ("1" signal)
Typical response time	min. 3 ms

AC operation

Input voltage range	3x 400 V AC ... 480 V AC -15 % ... +10 %
Frequency range	50 Hz ... 60 Hz \pm 10 %
Input current	3x 6 A
Supply system configuration	Star network (TN-S, TT)

Output data

Charging interface

Charging standard	CCS type 2
Output voltage range	0 V DC ... 1000 V DC
Output current range	0 A DC ... 500 A DC
Output current	250 A
Nominal power	150 kW (DC)

Digital

Output name	can be freely assigned
Number outputs	4
Resistance to permanent reverse voltage	max. 500 mA

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Supply of external I/O devices

Number outputs	8
Output voltage	24 V DC
Nominal power	max. 216 W

Supply of external I/O devices

Number outputs	6
Output voltage	230 V AC
Nominal power	max. 1150 W

Connection data

DC Input +

Designation	DC Input +
Position	X2

Conductor connection

Connection method	T-LOX knee lever connection
rigid	10 mm ² ... 50 mm ²
flexible	16 mm ² ... 50 mm ²
flexible with ferrule without plastic sleeve	10 mm ² ... 50 mm ²
flexible with ferrule with plastic sleeve	10 mm ² ... 50 mm ²
rigid (AWG)	8 ... 1 (Cu)
Stripping length	20 mm (rigid/flexible)
	8 mm (Ferrule)

AC supply voltage

Designation	AC supply voltage
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Conductor connection

Connection method	Push-in spring connection
rigid	0.2 mm ² ... 10 mm ²
flexible	0.2 mm ² ... 6 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 6 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 6 mm ²
rigid (AWG)	24 ... 8
Stripping length	15 mm

DC output power

Designation	DC output power
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Conductor connection

Connection method	T-LOX knee lever connection
rigid	25 mm ² ... 95 mm ²
flexible	25 mm ² ... 95 mm ²
flexible with ferrule without plastic sleeve	25 mm ² ... 95 mm ²
flexible with ferrule with plastic sleeve	25 mm ² ... 95 mm ²

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Stripping length	25 mm
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Peripheral devices

Designation	Peripheral devices
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Conductor connection

Connection method	Push-in spring connection
rigid	0.14 mm ² ... 1.5 mm ²
flexible	0.14 mm ² ... 1.5 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² ... 1.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² ... 0.75 mm ²
rigid (AWG)	26 ... 16
Stripping length	8 mm

External fans

Designation	External fans
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Conductor connection

Connection method	Push-in spring connection
rigid	0.2 mm ² ... 4 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ² (Stripping length 8 mm)
flexible with ferrule with plastic sleeve	0.25 mm ² ... 1.5 mm ² (Stripping length 8 mm)
rigid (AWG)	24 ... 12
Stripping length	10 mm

Interfaces

Ethernet

Interface	Ethernet
Number of interfaces	1
Connection method	RJ45
Transmission physics	wired
Transmission speed	100 Mbps

CAN-Bus

Interface	CAN bus
Number of interfaces	1
Connection method	RJ45
Supported protocols	CAN 2.0B
Locking	Locking clip
Transmission physics	wired
Topology	Line (daisy-chain connection)
Transmission speed	125 kbps

RS-485

Interface	Serial RS-485
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Number of interfaces	2
Connection method	2x TX+/RX+, TX-/RX-
Transmission physics	wired

System properties

Configuration memory	min. 4 Mbyte (depending on storage media)
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IEC 61131 runtime system

Number of control tasks	8
Processing speed	1.3 ms (1 K mix instructions)
	90 µs (1 K bit instructions)

System requirements

Diagnostics tool	DIAG+
Runtime system	eCLR

Product properties

Product type	DC charging controller
Product family	CHARX control integrated
Operating mode	Stand-Alone
	Client
	Server
Internal fan	yes
Flow direction	from front to back

Insulation characteristics

Protection class	I
Overvoltage category (IEC 60664-1)	II
Pollution degree	2

Dimensions

Item dimensions

Width	483 mm
Height	134 mm
Depth	598 mm
Rack unit	3 U

Mounting

Mounting type	19" rack mounting
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Material specifications

Housing material	Zn-Al alloy
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Environmental and real-life conditions

Ambient conditions

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Degree of protection	IP20
	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	≤ 2000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)
Noise level	< 67 dB (1 m)

Standards and regulations

Electric vehicle conductive charging system - Part 1: General requirements

Standard designation	Electric vehicle conductive charging system - Part 1: General requirements
Standards/specifications	IEC 61851-1

Electric vehicle conductive charging system – Part 23: DC electric vehicle charging station

Standard designation	Conductive charging systems for electric vehicles – Part 23: DC supply equipment for electric vehicles
Standards/specifications	IEC 61851-23

EMC data

EMC requirements for noise emission	EN 61000-6-3
EMC requirements for noise immunity	EN 61000-6-2

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Approvals

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IECEE CB Scheme

Approval ID: DE 3 - D0026

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Classifications

ECLASS

ECLASS-13.0	27144703
ECLASS-15.0	27144703

ETIM

ETIM 10.0	EC002889
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	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.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	fe9b2214-13dd-464a-8edc-0c8f80a07697

EF3.1 Climate Change

CO2e kg	377.43 kg CO2e
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