

1427757

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), 32 A / 480 V (AC), Single wires, length: 5 m, locking actuator: 24 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the DC and AC contacts.

### Product description

Vehicle charging inlet for charging with alternating current (AC) and direct current (DC), compatible with type 2 AC and CCS vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

### Your advantages

- · Complete product range
- · Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- · Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- · Integrated interlock during charging
- · Manual emergency release of the locking actuator
- · Protected and sealed against dirt and water with a high degree of protection

## Commercial data

Item number	1427757
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151789404
Weight per piece (including packing)	14,070 g
Customs tariff number	85444290
Country of origin	PL



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### Technical data

#### Notes

General	A protective cap is supplied as standard for the DC and AC contacts.
Product properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
Technology	Combined Charging System
Charging standard	CCS type 2
Charging mode	Mode 2, 3, 4

### **Electrical properties**

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Note on the connection method	Crimp connection, cannot be disconnected
Insulation resistance	> 200 MΩ
Coding	4.7 k $\Omega$ (between PE and PP)
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
Temperature monitoring	AC contacts: PTC chain (DIN□EN□60738-1)
Type of charging current	AC 3-phase
Charging power	26 kW
Charging current	32 A
Type of charging current	DC
Charging power	200 kW
Charging current	200 A
Type of charging current	DC Boost Mode
Charging power	up to 500 kW (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)
Charging current	up to 500 A (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)
ower contact	
Number	7 (11 12 13 N PE DC+ DC-)

Number	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 V AC
	1000 V DC
Rated current	32 A AC
	200 A DC (DC+, DC-, PE)

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
emperature sensors (PTC chain)	
Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Attachment point	Sensor for the AC contacts
Messbereich_Widerstand	790 Ω 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	$\leq$ 1 mA (U <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
emperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
ocking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
ocking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
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 (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

Cable/line



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Cable length         5 m           Cable structure         2 x 70 mm²           Single wire, naterial         Silicone           Single wire, color         OG           External cable diameter         17.9 mm ±0.3 mm           Cable resistance         s 0.259 Ω/km           Single wire, color         5 m           Cable length         5 m           Cable structure         1 x 25 mm²           Cable structure         Single wire, material           Single wire, color         GN/YE           Single wire, color         GN/YE           External cable diameter         8.6 mm ±0.1 mm           Cable resistance         s 0.743 Ω/km           Single wire, color         Single wire, material           Single wire, color         0.5 m           Cable structure         4 x 0.5 mm²           Single wire, color         BU/RD, BU/SN, BU/YE, BU/SN           Cable structure         4 x 0.5 mm²           Single wire, color         BU/RD, BU/SN, BU/YE, BU/SN           Single wire, color         BU/RD, BU/SN, BU/YE, BU/SN           Single wire, color PTC temperature sensors         Single wire, color PTC temperature sensors           Cable length         1 m           Cable structure         5 x 0,5 mm²	Cable length	5 m
ingle one wires for AC Gable istructure Gable istructure Gable ingth Gable structure Single wire, naterial Gable ingth Gable structure Gable ingth Gab	Cable type	Single wires
Cable length5 mCable structure4 x 6 mm²Single wire, material60GSingle wire, color0GExternal cable diameter14.7 mm ±0.2 mmCable resistance5 3 2 0/kmsingle-core wires for DC2 x 70 mm²Cable structure2 x 70 mm²Gable structure, materialSiliconeSingle wire, naterialSiliconeSingle wire, naterialCable structureSingle wire, naterialSiliconeSingle wire, materialSiliconeSingle wire, naterialSiliconeCable structureSiliconeCable structureSiliconeSingle wire, naterialSiliconeSingle wire, naterialSilicone <td>Single wire, cross section</td> <td>70.00 mm<sup>2</sup></td>	Single wire, cross section	70.00 mm <sup>2</sup>
Cable length5 mCable length4 x 6 mm²Single wire, materialSilconeSingle wire, colorOGCable resistance3 3 2 0/kmCable resistance5 3 2 0/kmSingle wire, color5 nCable resistance5 nCable resistance2 x 70 mm²Single wire, materialSilconeSingle wire, colorOGExternal cable diameter0 GSingle wire, colorOGSingle wire, colorOGExternal cable diameter17 9 mm ±0.3 mmCable structure3 0 259 0/kmSingle wire, colorSilconeCable structure5 nCable structure5 nCable structure5 nCable structure5 nCable structure5 NCable structure5 NCable structure5 NSingle wire, materialSilconeSingle wire, material5 NCable structure6 N/YESingle wire, material5 NSingle wire, color0 G N/YECable length0.5 mCable length0.5 mCable structure4.0 S nm²Single wire, color1.0 mSingle wire, color1.0 mCable length1.0 mCable length1.0 mCable length1.0 mCable structure5.0 S nm²Cable length1.0 mCable length1.0 mCable length1.0 mCable length1.0 m <t< td=""><td>Single-core wires for AC</td><td></td></t<>	Single-core wires for AC	
Cable structure4 × 6 mm²Single wire, materialSiliconeSingle wire, colorO GCable resistance4.3.2 Ω/kmSingle-core wires for DCSingle wire, materialCable length5 mCable resistance2.x.70 mm²Single wire, materialSiliconeSingle wire, materialSiliconeSingle wire, material0GExternal cable diameter0.9.0 Mm²Cable length5 mCable resistance2.0.259 Ω/kmSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, colorGAN PMECable resistance0.5 mCable resistance0.5 mSingle wire, naterial0.5 mSingle wire, naterial0.5 mSingle wire, naterial0.5 mSingle wire, material0.5 mSingle wire, material0.5 mSingle wire, material0.5 mSingle wire, material0.5 mSingle wire, material1 mCable resistance3.71 0/mSingle wire, material1 N<		5 m
Single wire, materialSiliconeSingle wire, colorOGExternal cable diameter14.7 mm ±0.2 mmCable resistance\$ 32.0 /kmSingle-core wires for DCSingle core wires for DCCable length5 mCable lengthS mSingle wire, materialSiliconeSingle wire, materialSiliconeSingle wire, colorOGExternal cable diameter7.9 mm ±0.3 mmCable resistanceSo Sp OkmSingle-core wires for PESiliconeCable resistance5 mCable length5 mCable structure1 x 25 mm²Cable length5 mCable lengthSiliconeSingle wire, colorSiliconeCable length5 mCable length5 mCable structure8 SiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeSingle wire, colorSiliconeCable length1 m m £2.0 mm²Cable length1 mm £2.0 mm²Cable lengthSiliconeSingle wire, color1 siliconeSingle wire, color1 siliconeSingle wire, color1 siliconeCable length1 mCable length1 mCable lengthSiliconeSingle wire, colorSiliconeSingle wire, color <td< td=""><td></td><td></td></td<>		
Single wire, color         OG           External cable diameter         14.7 mm ±0.2 mm           Cable resistance         \$3.2 Ω/km           Single-core wires for DC         Cable structure           Cable structure         5 m           Cable structure, material         Silicone           Single wire, color         OG           External cable diameter         17.9 mm ±0.3 mm           Cable resistance         \$0.259 Ω/km           Single wire, color         OG           Cable resistance         \$0.259 Ω/km           Single wire, color         5 m           Cable structure         1 x.25 mm²           Single wire, material         Silicone           Single wire, color         GM/YE           Cable structure         1 x.25 mm²           Single wire, color         G/NYE           External cable diameter         8.6 mm ±0.1 mm           Cable structure         \$ 0.743 Ω/km           Single wire, color         Som           Cable structure         4 x 0.5 mm²           Single wire, color         BJ/RD, BJ/GN, BJ/YE, BJ/BN           Cable structure         \$ 3.71 Ω/m           Single wire, color         BJ/RD, BJ/RD, BJ/RD, BJ/RD, BJ/RD, BJ/RD           Single wire,		
External cable diameter         14.7 mm ±0.2 mm           Cable resistance         ≤ 3.2 Ω/km           Single-core wires for DC         5 m           Cable length         5 m           Cable length         5 m           Cable length         5 m           Single wire, material         Silicone           Single wire, naterial         0G           External cable diameter         17.9 mm ±0.3 mm           Cable resistance         \$ 0.259 Ω/km           Single wire, naterial         5 m           Cable length         5 m           Cable length         5 m           Cable length         5 m           Cable structure         1 x.25 mm²           Single wire, material         Silicone           Single wire, material         6 Mr № E           External cable diameter         6 mm ±0.1 mm           Cable structure         8 0.7 M3 Ω/km           Single wire, material         0.5 m           Cable structure         4 x 0.5 mm²           Single wire, material         PVC<		
cable resistance         \$ 3.2 Ω/km           Single-core wires for DC         \$ m           Cable length         \$ m           Cable structure         2 x 70 mm²           Single wire, naterial         Silcone           Single wire, color         OG           Cable structure         4 0.259 Ω/km           Cable resistance         < 0.259 Ω/km		
Single-core wires for DC           Cable length         5 m           Cable structure         2 x 70 mm²           Single wire, material         Silicone           Single wire, color         OG           External cable diameter         17.9 mm ±0.3 mm           Cable resistance         \$ 0.259 Ω/km           Single wire, color         5 m           Cable resistance         \$ m²           Cable structure         1 x 25 mm²           Cable structure         5 m           Cable structure         1 x 25 mm²           Cable structure         5 m           Cable structure         1 x 25 mm²           Single wire, naterial         Silicone           Single wire, naterial         Silicone           Single wire, color         GN/YE           External cable diameter         4 x 0.5 mm²           Cable structure         0.5 m           Cable structure         9 VC           Single wire, naterial         9 VC           Single wire, naterial         1.6 mm ±0.20 mm           Single wire, naterial         1.6 mm ±0.20 mm           Single wire, naterial         9 N/GY           Single wire, naterial         9 N/GY           Single wire, material		
Cable structure2 x 70 mm²Single wire, materialSiliconeSingle wire, colorOGExternal cable diameter17.9 mm ±0.3 mmCable resistance< 0.259 Ω/km		
Cable structure2 x 70 mm²Single wire, materialSiliconeSingle wire, colorOGExternal cable diameter17.9 mm ±0.3 mmCable resistance< 0.259 Ω/km		
Single wire, naterialSiliconeSingle wire, colorOGExternal cable diameter17.9 mm ±0.3 mmCable resistance≤ 0.259 Ω/kmSingle-core wire for PECable length5 mCable structure1 x 25 mm <sup>3</sup> Single wire, naterialSiliconeSingle wire, colorGN/YEExternal cable diameter8.6 mm ±0.1 mmCable resistance≤ 0.743 Ω/kmSingle-core wires for locking actuator≤ 0.743 Ω/kmSingle-core wires for locking actuator5 mCable length0.5 mCable length0.5 mCable length0.5 mCable length9U/CD, BU/KD, BU/YE, BU/BNSingle wire, colorSingle Wire, colorSingle wire, solor5 x 0,5 mm <sup>3</sup> Cable resistance≤ 37.1 Ω/mCable resistance5 x 0,5 mm <sup>4</sup> Cable resistance5 x 0,5 mm <sup>4</sup> Cable wire, colorBU/RD, BU/YE, BU/BNCable wire, colorBU/RD, BU/YE, BU/ABNSingle-core wires for PTC temperature sensorsSingle wire, colorCable length1 mCable structure5 x 0,5 mm <sup>4</sup> Cable resistanceS 0,5 mm <sup>4</sup> Single wire, colorBU/RD, BU/YE, BU/ABNSingle wire, colorBN/GYSingle wire, colorBN/GYBN/YE/GNBN/YE/GNExternal cable diameter1.6 mm ±0.20 mmCable resistance\$ 37.1 Ω/m	Cable length	5 m
Single wire, color         OG           External cable diameter         17.9 mm ±0.3 mm           Cable resistance         ≤ 0.259 Ω/km           Single-core wire for PE	Cable structure	2 x 70 mm²
External cable diameter         17.9 mm ±0.3 mm           Cable resistance         < 0.259 Ω/km		Silicone
Cable resistance         ≤ 0.259 Ω/km           Single-core wire for PE         5 m           Cable length         5 m           Cable structure         1 x 25 mm²           Single wire, naterial         Silicone           Single wire, color         GN/YE           External cable diameter         8.6 mm ±0.1 mm           Cable resistance         < 0.743 Ω/km	Single wire, color	OG
Single-core wire for PE Cable length 5 m Cable length 5 m Cable structure 1 x 25 mm <sup>2</sup> Single wire, color 6 N/YE External cable diameter 8 6.6 mm ±0.1 mm Cable resistance 5 0.743 Ω/km Single-core wires for locking actuator Cable resistance 5 0.5 m Cable length 0.5 m Cable structure 4 x 0.5 mm <sup>2</sup> Cable structure 9 VC Single wire, color 8 U/RD, BU/YE, BU/BN External cable diameter 3 s7.1 Ω/m Single-core wires for PTC temperature sensors Cable resistance 5 x 0.5 mm <sup>2</sup> Cable structure 5 m Cable structure 5 m Single wire, naterial 6 m Single wire, solor 1 m Cable structure 5 m Single wire, solor 1 m Single wire	External cable diameter	17.9 mm ±0.3 mm
Cable length         5 m           Cable structure         1 x 25 mm²           Single wire, naterial         Silicone           Single wire, color         GN/YE           External cable diameter         8.6 mm ±0.1 mm           Cable resistance         ≤ 0.743 Ω/km           Single-core wires for locking actuator         ≤ 0.743 Ω/km           Cable length         0.5 m           Cable structure         4 x 0.5 mm²           Single wire, naterial         PVC           Single wire, color         BU/RD, BU/GN, BU/YE, BU/BN           External cable diameter         1.6 mm ±0.20 mm           Cable resistance         ≤ 37.1 Ω/m           Single wire, material         PVC           Single wire, material         1 m           Cable length         1 m           Cable structure         5 x 0.5 mm²           Single wire, naterial         PVC           Single wire, color         BN/GY           BN/GY         BN/GY           BN/GY         BN/YE/GN           Cable resistance         \$ 37	Cable resistance	≤ 0.259 Ω/km
Cable length         5 m           Cable structure         1 x 25 mm²           Single wire, material         Silicone           Single wire, color         GN/YE           External cable diameter         8.6 mm ±0.1 mm           Cable resistance         ≤ 0.743 Ω/km           Single-core wires for locking actuator         ≤ 0.743 Ω/km           Cable length         0.5 m           Cable length         0.5 m           Cable length         0.5 m           Cable wire, oolor         BU/RD, BU/KB, BU/	Single-core wire for PE	
Single wire, material     Silicone       Single wire, color     GN/YE       External cable diameter     & 6 mm ±0.1 mm       Cable resistance     \$ 0.743 Q/km       Single-core wires for locking actuator     Silicone       Cable length     0.5 m       Cable structure     4 x 0.5 mm²       Single wire, material     PVC       Single wire, color     BU/RD, BU/SN, BU/YE, BU/BN       External cable diameter     1.6 mm ±0.20 mm       Cable length     1 m       Cable length     5 x 0,5 mm²       Cable length     1 m       Cable length     1 m       Cable length     5 x 0,5 mm²       Single wire, naterial     9 VC       Single wire, color     8 N/ST 10/m       Single wire, naterial     1 m       Single wire, material     9 VC       Single wire, material     9 VC       Single wire, material     1 m       Single wire, material     9 VC       Single wire, color     8 N/GY       Single wire, color     8 N/GY       Single wire, color     8 N/YE/GN       External cable diameter     1.6 mm ±0.20 mm       Cable resistance     \$ 37.1 Ω/m		5 m
Single wire, colorGN/YEExternal cable diameter8.6 mm ±0.1 mmCable resistance≤ 0.743 Ω/kmSingle-core wires for locking actuator5.743 Ω/kmCable length0.5 mCable structure4 x 0.5 mm²Single wire, materialPVCSingle wire, colorBU/RD, BU/GN, BU/YE, BU/BNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensors5 x 0.5 mm²Cable length1 mCable length5 x 0.5 mm²Single wire, colorBN/GYSingle wire, colorBN/GYSingle wire, colorBN/GYSingle wire, color1.6 mm ±0.20 mmCable length1 mCable length1 mCable structure5 x 0.5 mm²Single wire, colorBN/GYSingle wire, colorBN/GYBN/YE/GNBN/YE/GNExternal cable diameter1.6 mm ±0.20 mmCable resistance5 37.1 Ω/m	Cable structure	1 x 25 mm²
External cable diameter         8.6 mm ±0.1 mm           Cable resistance         ≤ 0.743 Ω/km           Single-core wires for locking actuator         0.5 m           Cable length         0.5 m           Cable structure         4 x 0.5 mm²           Single wire, material         PVC           Single wire, color         BU/RD, BU/RD, BU/RD, BU/YE, BU/BN           External cable diameter         1.6 mm ±0.20 mm           Cable resistance         ≤ 37.1 Ω/m           Single-core wires for PTC temperature sensors         Structure           Cable length         1 m           Cable length         9 V/C           Single-wire, material         9 V/C           Single-core wires for PTC temperature sensors         5 x 0,5 mm²           Cable length         1 m           Cable structure         5 x 0,5 mm²           Single wire, material         9 V/C           Single wire, color         BN/GY           BN/GY         BN/YE/GN           External cable diameter         1.6 mm ±0.20 mm           Cable resistance         1.6 mm ±0.20 mm	Single wire, material	Silicone
Cable resistance         ≤ 0.743 Ω/km           Single-core wires for locking actuator         0.5 m           Cable length         0.5 m <sup>2</sup> 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         1.6 mm ±0.20 mm           Cable resistance         ≤ 37.1 Ω/m           Single vire, material         1 m           Cable length         1 m           Cable length         1 m           Cable length         9 VC           Single wire, material         9 VC           Single wire, material         1 m           Cable length         1 m           Cable structure         5 x 0.5 mm <sup>2</sup> Single wire, color         BN/GY           BN/YE/GN         BN/YE/GN           External cable diameter         1.6 mm ±0.20 mm           Cable resistance         ≤ 37.1 Ω/m	Single wire, color	GN/YE
Single-core wires for locking actuator Cable length 0.5 m Cable structure 4 x 0.5 mm² Single wire, material PVC Single wire, color BU/RD, BU/RD, BU/YE, BU/BN External cable diameter 1.6 mm ±0.20 mm Cable resistance ≤ 37.1 Ω/m Cable resistance 1m Cable length 1m Cable structure Sensors Cable length 1m Cable structure Sensors Single wire, material PVC Single wire, material PVC Single wire, color 4m Single wire, color 4m Single wire, color 4m Single wire, color 5m Single wire, color 4m Single wire, color 4m Single wire, color 5m Single wire, color 4m Single wire, color 5m Single wire, color 5m	External cable diameter	8.6 mm ±0.1 mm
Cable length0.5 mCable structure4 x 0.5 mm²Single wire, materialPVCSingle wire, colorBU/RD, BU/GN, BU/YE, BU/BNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensorsCable length1 mCable structure5 x 0.5 mm²Single wire, materialPVCSingle wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable length1.6 mm ±0.20 mmCable resistanceSingle wire, colorBN/GYBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance5 37.1 Ω/m	Cable resistance	≤ 0.743 Ω/km
Cable length0.5 mCable structure4 x 0.5 mm²Single wire, materialPVCSingle wire, colorBU/RD, BU/GN, BU/YE, BU/BNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensorsCable length1 mCable structure5 x 0.5 mm²Single wire, materialPVCSingle wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable length1.6 mm ±0.20 mmCable resistanceSingle wire, colorBN/GYBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance5 37.1 Ω/m	Single-core wires for locking actuator	
Cable structure4 x 0.5 mm²Single wire, materialPVCSingle wire, colorBU/RD, BU/SN, BU/YE, BU/BNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensors1 mCable length1 mCable structure5 x 0.5 mm²Single wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistanceSingle wire, colorSingle wire, colorSN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m		0.5 m
Single wire, materialPVCSingle wire, colorBU/RD, BU/GN, BU/YE, BU/BNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensors1 mCable length1 mCable structure5 x 0,5 mm²Single wire, materialPVCSingle wire, colorBN/GYSingle wire, color1.6 mm ±0.20 mmExternal cable diameter1.6 mm ±0.20 mmCable resistance\$ 37.1 Ω/m	-	
Single wire, color       BU/RD, BU/RD, BU/YE, BU/BN         External cable diameter       1.6 mm ±0.20 mm         Cable resistance       ≤ 37.1 Ω/m         Single-core wires for PTC temperature sensors       I m         Cable length       1 m         Cable structure       5 x 0,5 mm²         Single wire, material       PVC         Single wire, color       BN/GY         External cable diameter       1.6 mm ±0.20 mm         Cable resistance       37.1 Ω/m	Single wire, material	
External cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/mSingle-core wires for PTC temperature sensors1 mCable length1 mCable structure5 x 0,5 mm²Single wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m		
Single-core wires for PTC temperature sensors         Cable length       1 m         Cable structure       5 x 0,5 mm²         Single wire, material       PVC         Single wire, color       BN/GY         External cable diameter       1.6 mm ±0.20 mm         Cable resistance       ≤ 37.1 Ω/m		
Cable length1 mCable structure5 x 0,5 mm²Single wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m	Cable resistance	≤ 37.1 Ω/m
Cable length1 mCable structure5 x 0,5 mm²Single wire, materialPVCSingle wire, colorBN/GYExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m		
Cable structure5 x 0,5 mm²Single wire, materialPVCSingle wire, colorBN/GYBN/YE/GNBN/YE/GNExternal cable diameter1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m		
Single wire, materialPVCSingle wire, colorBN/GYExternal cable diameterBN/YE/GNCable resistance1.6 mm ±0.20 mmCable resistance≤ 37.1 Ω/m		
Single wire, color     BN/GY       BN/YE/GN     BN/YE/GN       External cable diameter     1.6 mm ±0.20 mm       Cable resistance     ≤ 37.1 Ω/m		
BN/YE/GN       External cable diameter     1.6 mm ±0.20 mm       Cable resistance     ≤ 37.1 Ω/m		
External cable diameter       1.6 mm ±0.20 mm         Cable resistance       ≤ 37.1 Ω/m         Single-core wires for Pt 1000 temperature sensors		
Cable resistance     ≤ 37.1 Ω/m       Single-core wires for Pt 1000 temperature sensors	External coble diameter	
Single-core wires for Pt 1000 temperature sensors		
	Single wire, color External cable diameter Cable resistance	BN/GY BN/YE/GI 1.6 mm ±
	1000 temperature sensors	



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Cable structure	3 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
External cable diameter	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Single-core wires for communication	
Cable length	1 m
Cable structure	2 x 0.5 mm <sup>2</sup>
	2 X 0.5 IIIII <sup>-</sup>
Single wire, material	PVC
Single wire, color	ВК
	WH
External cable diameter	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

#### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

#### Environmental and real-life conditions

Ambient conditions	
Degree of protection (Vehicle charging inlet)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
	IP67 (Inner area of vehicle charging inlet)
Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	4000 m (above sea level)

### Standards and regulations

Standards	
Standards/regulations	IEC 62196-2
	IEC 62196-3

### Mounting

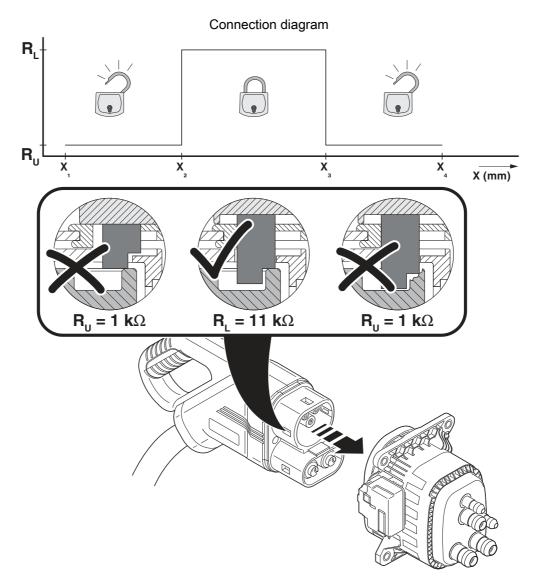
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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## Drawings

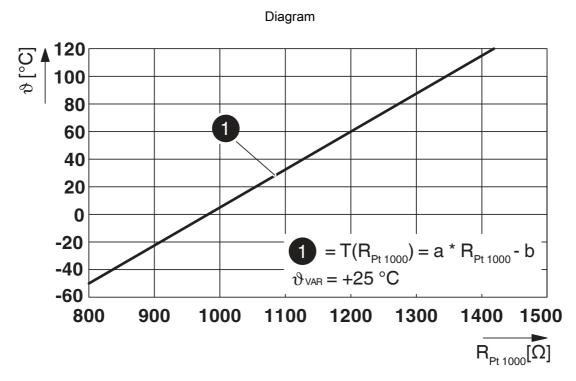


Detection for Vehicle Connector



1427757

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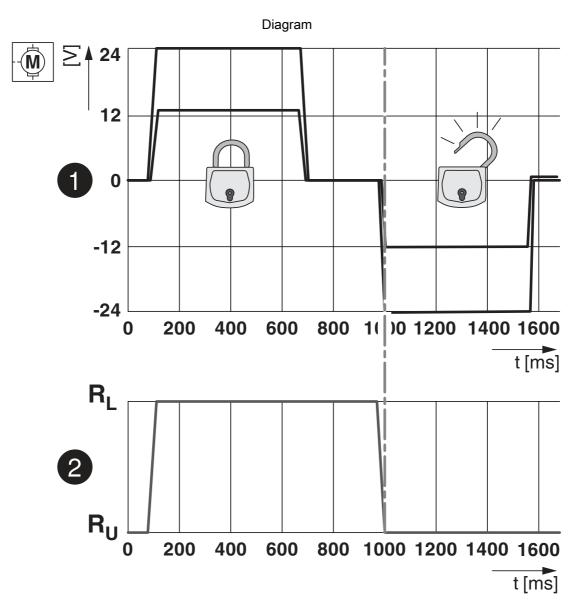


Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



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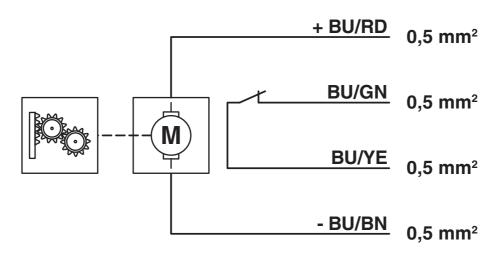
Locking states of the locking actuator



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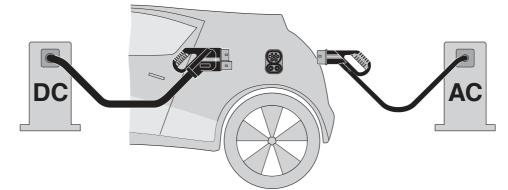
https://www.phoenixcontact.com/us/products/1427757

Block diagram



Block diagram of the locking actuator

Schematic diagram



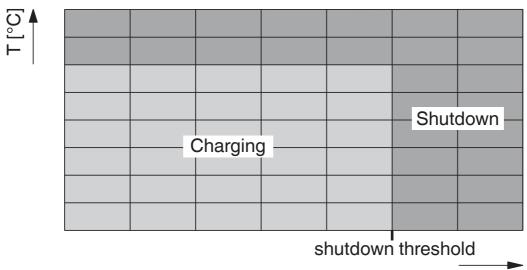
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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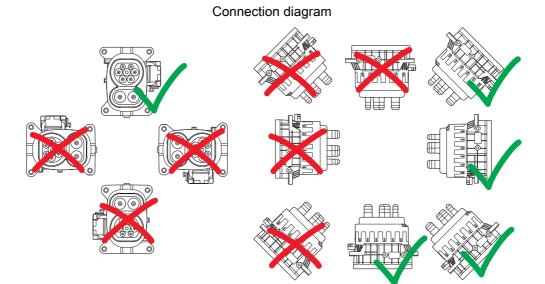
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Schematic diagram



R<sub>PTC</sub>[Ω]

Temperature sensor technology resistance range at AC contacts

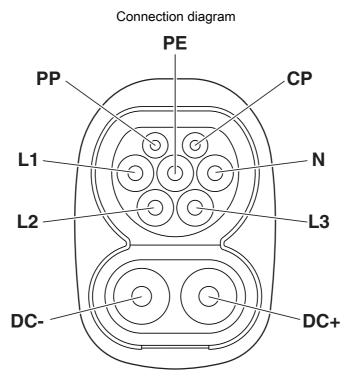


Installation positions



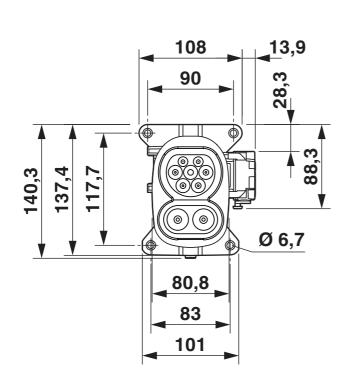
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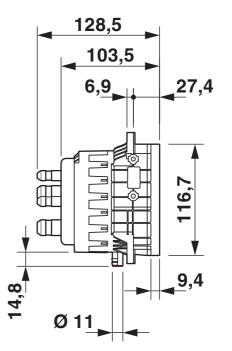
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Pin assignment of vehicle charging inlets

**Dimensional drawing** 





Dimensional drawing



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Schematic diagram [I] \_ Ш DC [11] E ¢□□□∎∎| DC [111] 88 Шĭ DC [IV] [V]

Operating instructions



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## Classifications

### ECLASS

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

#### ETIM

	ETIM 8.0	EC002898	
UNSPSC			
	UNSPSC 21.0	39121800	



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the



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### Accessories

CHARX T2HBI-DUST-COVER-SET - Protective cover

1305486 https://www.phoenixcontact.com/us/products/1305486



CHARX connect universal, Protective cover, Accessories, for vehicle charging inlet, CCS type 2, Plug-on assembly, housing: black

#### CHARX T2HI-ELOCK24V - Locking

1331524

https://www.phoenixcontact.com/us/products/1331524



CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 2, IEC 61851-1, Single wires, length: 1 m, locking actuator: 24 V, 4-pos.

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