EV-HPC-PCU-01 - Cooling unit

1237881

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CHARX connect, Cooling unit, Accessories, with variable-speed fan, with variable-speed pump, for cooling the cooling liquid of a Phoenix Contact HPC DC charging cable, CCS type 1, CCS type 2, length: 1.5 m

Commercial data

Item number	1237881
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBALL
GTIN	4063151344757
Weight per piece (including packing)	17,440 g
Weight per piece (excluding packing)	17,440 g
Customs tariff number	84195080
Country of origin	DE

Technical data

Product properties

Product type	Cooling unit
Product family	CHARX connect
Application	for cooling the cooling liquid of a Phoenix Contact HPC DC charging cable
	for installation in e-mobility charging stations (EVSE)
Type	Accessories
Design	with variable-speed fan
	with variable-speed pump
Manufacturer	HYDAC Cooling GmbH
Technology	High Power Charging
	Combined Charging System
Charging standard	CCS type 1
	CCS type 2
Charging mode	Mode 4

Electrical properties

Supply voltage	24 V DC (Fan)
	24 V DC (Pump)
Control voltage range	0.00 V DC ... 10.00 V DC (Fan)
	0.00 V DC ... 10.00 V DC (Pump)
Current consumption	max. 1.97 A (Fan)
	max. 1.8 A (Pump)

Interfaces

Function interface: Cooling system

Interface description	Quick release couplings, inflow and return flow, for hoses with an outer diameter of 12 mm

Function interface: Fan

Cable structure	4 x 0.5 mm²
Single-core wire	Power supply RD
	Reference ground BU
	Speed output WH
	Control input YE

Function interface: Pump

Cable structure	2 x 0.34 mm² + 5 x 0.14 mm²
Single-core wire	Power supply RD
	Reference ground BK
	Motor shutoff signal GN
	Speed output BN

	Control input YE
	RS-485 Modbus WH can only be used by the manufacturer
	RS-485 Modbus BU can only be used by the manufacturer

Function interface: Level sensor

connection	Plug straight M12 A

Material specifications

Material (Housing)	Aluminum
	Stainless steel

Cable/line

Cable length	1.5 m (Fan)
	1.5 m (Pump)
Cable length	1.5 m (Fan)
Cable length	1.5 m (Pump)

Mechanical properties

Cooling capacity	approx. 0.06 kW/K (at 2 l/min)
Volumetric flow	approx. 2 l/min (at 1 bar)
Coolant	50% water, 50% glycol (Glysofor N)

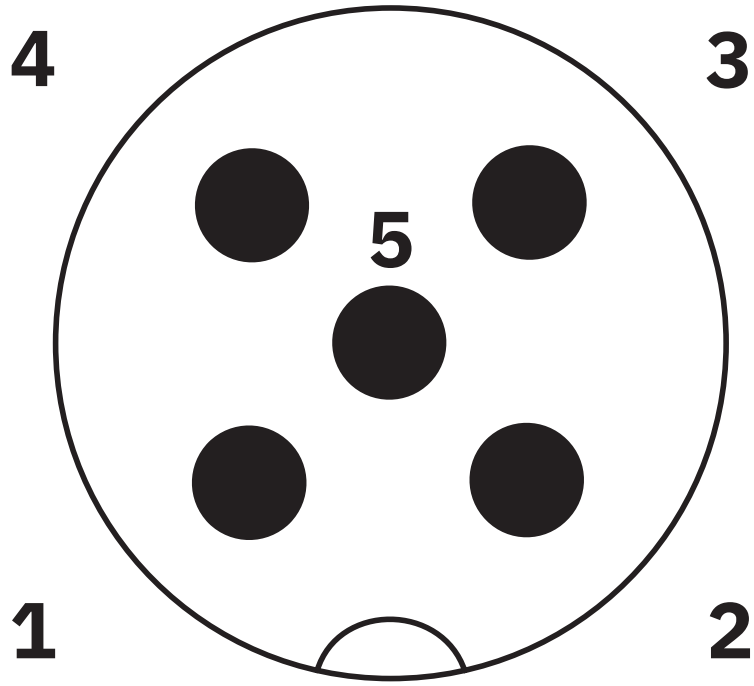
Environmental and real-life conditions

Ambient conditions

Degree of protection (Fans)	IP55 (Fan)
Degree of protection (Pump)	IP65 (Pump)
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-25 °C ... 50 °C
Altitude	max. 1000 m (above sea level)
Volume range	≤ 60 db(A) (with free-standing system and 1 m distance)

Drawings

Schematic diagram



Coolant tank fill-level sensor connected via M12 male with A-coding

Classifications

ECLASS

ECLASS-11.0	27144792
ECLASS-12.0	27144792
ECLASS-13.0	27144792

ETIM

ETIM 9.0	EC002884

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, No electrical and electronic equipment (EEE), cannot be used in EEE

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead(CAS: 7439-92-1)
SCIP	052e4ff5-7318-4019-8f73-22974279b3e6

Accessories

EV-T2HPCC-DC500A-5,0M50ECBK11 - DC charging cable

1085638

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CHARX connect professional, HPC DC charging cable, with cooled vehicle charging connector and cooled cable, for charging electric vehicles (EV) with direct current (DC), with replaceable mating face frame, with replaceable DC power contacts, without panel feed-through, Single-core wires for four-conductor measurement are not connected and are non-functional, CCS type 2, IEC 62196-3-1, 500 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 5 m, black, straight

EV-T1HPCC-DC500A-5,0M50ECBK11 - DC charging cable

1085658

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CHARX connect professional, HPC DC charging cable, with cooled vehicle charging connector and cooled cable, for charging electric vehicles (EV) with direct current (DC), with charging connector holder, with replaceable mating face frame, without panel feed-through, Single-core wires for four-conductor measurement are not connected and are non-functional, CCS type 1, SAE J1772, IEC 62196-3-1, 500 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 5 m, black, straight

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