EV-HPC-PCU-01 - Cooling unit

1237881

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

Commercial data

Item number	1237881
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBLNY
GTIN	4063151344757
Weight per piece (including packing)	17,440 g
Weight per piece (excluding packing)	16,299 g
Customs tariff number	84195080
Country of origin	DE

Technical data

Product properties

Product type	Cooling unit
Product family	CHARX connect
Type	Accessories
Design	with variable-speed fan
	with variable-speed pump
Charging standard	CCS type 1
	CCS type 2
Charging mode	Mode 4

Electrical properties

Cooling system

Cooling	Liquid-air cooling system (passive)
	semi-closed cooling circuit
Coolant	50% water, 50% glycol (Glysofor N)
Volume range	≤ 60 db(A) (with free-standing system and 1 m distance)
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)

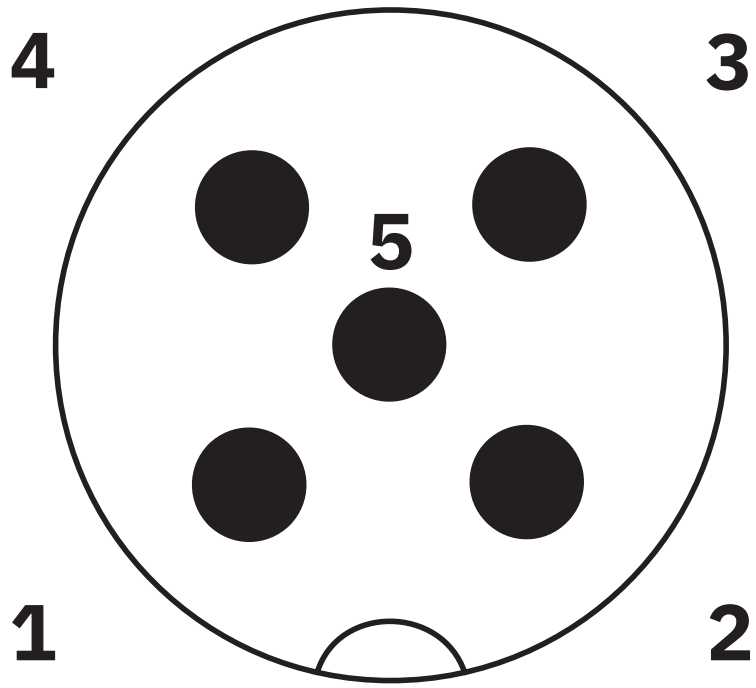
Environmental and real-life conditions

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-13.0	27144792
ECLASS-15.0	27144792

ETIM

ETIM 10.0	EC002884

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

EU RoHS

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

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	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.)	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead(CAS: 7439-92-1)
SCIP	052e4ff5-7318-4019-8f73-22974279b3e6

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