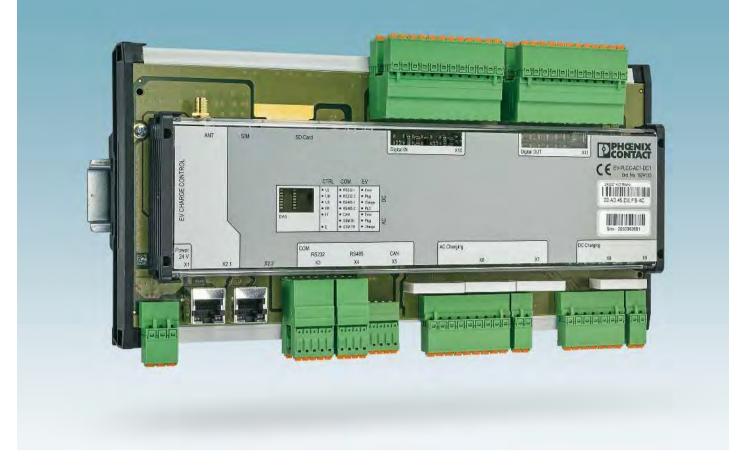
Safe and reliable vehicle charging: you can operate any charging station with our flexible charging controllers – from a single domestic AC wall box, right through to HPC charging station facilities on highways.

These devices monitor and control the electric vehicle charging process in accordance with internationally applicable norms and standards, such as IEC, GB/T, and SAE.

Thanks to our wide range of products, you can realize a vast array of infrastructure concepts tailored to your individual requirements.

DC charging controllers	56
AC charging controllers	58
Residual current monitoring	66

DC charging controllers



## The solution for state-of-the-art fast charging stations

Our freely programmable EVCC Professional DC charging controller is the powerful control solution for your state-of-the-art fast charging station.

It supports both fast DC charging and conventional AC charging, and at the same time takes care of all control and communication tasks, including visualization on the operator panel.

## Wide range of possible applications, thanks to free programmability

The EV Charge Control Professional charging controller can be programmed for your individual charging application in accordance with IEC 61131. This makes it a versatile charging controller for the widest possible range of applications.

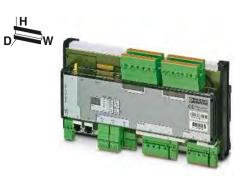
Furthermore, you can reduce the engineering work required with the ready-made PC Worx function blocks for vehicle communication in accordance with DIN SPEC 70121.

#### Your advantages

- Two independent charging points (AC and DC) with just one controller
- Highly flexible, thanks to the free programmability in accordance with IEC 61131
- Easy to program, thanks to ready-made function blocks for vehicle communication in accordance with DIN SPEC 70121
- Easy system integration, thanks to comprehensive interfaces
- Convenient remote access via integrated mobile network modem

# For public and commercial applications

- DC charging in accordance with DIN SPEC 70121
- AC charging in accordance with IEC 61851-1, Mode 3
- Serial interfaces: CAN, RS232, RS485
- Ethernet interface
- 3G mobile network interface



EV Charge Control Professional, freely programmable



Program and configuration memory for DC charging controller with license for the electromobility function blocks

		Technical da	ta		Technical da	ta	
Technical data							
Standards		IEC 61851-1 / IEC 61851-23 / IEC 61851-					
			T, AIIIICA ATD				
Charging mode		Mode 4			-		
		Mode 3, Case B + C					
Number of charging points		2					
IEC 61131 runtime system							
Program memory		1 MB (86 K instructions (IL))			-		
Mass storage		1 MB			-		
Retentive mass storage		48 KB (NVRAM)			-		
Configuration memory		min. 4 MB (depending on storage media)					
Programming tool		PC WORX					
		FCWORA					
Data interfaces							
Interface		RS-485 2-wire			-		
	Number of interfaces	2			-		
Interface		RS-232 interface			-		
	Number of interfaces	2			-		
Interface		Ethernet					
	Number of interfaces	2					
Interface	Number of Interfaces				-		
Interface		CAN bus			-		
	Number of interfaces	1			•		
Wireless interface							
Frequency		850 MHz (0.25 W (UMTS)) / 1900 MHz (0	.25 W (UMTS))	/	-		
		2100 MHz (0.25 W (UMTS))					
SIM Interface		1.8 V and 3 V SIM card			-		
GPRS		Class 12, Class B					
EDGE		Multislot Class 10					
UMTS					-		
		HSPA 3GPP R6					
Digital inputs/outputs							
Number inputs		16			-		
	Supply voltage U <sub>M</sub>	24 V DC -15% / +20% (in accordance with	n EN 61131-2)		-		
Number outputs		16					
·	Output voltage	24 V DC			-		
Maxim	um output current per channel	500 mA					
Switching outputs	an output our one por onalision						
		DC charging enabled					
Relay output					-		
	Maximum switching voltage	30 V (external supply)			-		
	Maximum switching current	6 A (external supply)			-		
Relay output		AC charging enabled			-		
	Maximum switching voltage	30 V (external supply)			-		
	Maximum switching current	6 A (external supply)			-		
Relay output	······································	AC charging locking system					
Tielay output	Movimum output voltage						
	Maximum output voltage	12 V DC (internal supply)			-		
	Maximum output current	max. 2 A			-		
Behavior in the event of voltage drop		Automatic unlocking					
Device supply							
Supply voltage		24 V DC			-		
General data							
Degree of protection		IP20					
•		-25°C 55°C			_		
Ambient temperature (operation)					-		
Mounting position		horizontal			-		
Dimensions W/H/D		285 / 158 / 70 mm			-/-/-		
Compliance/approvals							
Compliance		CE-compliant			-		
		Ordering data		Ordering data			
Description		Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.
2000.0400		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51461110.	. 00./T Kt.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01401110.	
Programmable DC charging contro	oller						
riogrammable be charging control		EV-PLCC-AC1-DC1	1624130	4			
Due survey (a surfice still		EV-PLUU-AUI-DUI	1024130	1			
Program/configuration memory							
					SD-FLASH-2GB-EV-EMOB	1624092	1

#### AC charging controllers



#### Electric charging - Worldwide

With our AC charging controllers, you can charge electric vehicles in accordance with international standards. The portfolio addresses the entire spectrum of AC charging stations:

 Our EVCC Basic AC charging controller is ideal for simple, private charging points such as wall boxes in garages and carports

 The EVCC Advanced and EVCC Advanced Plus controllers are the perfect solution for public and commercial AC applications with several charging points, load and energy management, remote access, and billing From a single charging point through to networked charging infrastructure

Phoenix Contact charging controllers can be operated both autonomously and in networks. Status data is acquired via the integrated communication interfaces, and controlled intervention in the charging process is supported.

Here, we focus on the use of standardized communication interfaces and protocols, therefore providing easy connection options to a variety of automation systems.

#### Your advantages

- Standard-compliant AC charging in accordance with IEC 61851-1, SAE J1772, and GB/T 20234
- High flexibility, thanks to extensive configuration options
- Easy realization of intelligent charging infrastructures with charging management
- Easy integration into management systems via standardized communication interfaces

## Charging controllers AC charging controllers



# EV Charge Control Basic for private applications

This product is a compact, cost-effective controller solution specifically for simple charging points. The charging controller is available as a DIN rail device and as a coated PCB version for harsh environments. An additional version with Push-in connection technology is available for compact, quick installation in charging station housings.



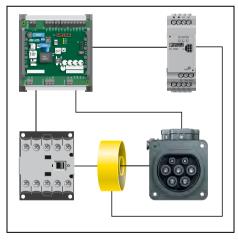
# EV Charge Control Advanced for commercial applications

This charging controller integrates all the necessary control functions for commercial charging points, and features comprehensive configuration options via DIP switch. Furthermore, it supports load and energy management on company premises and in parking lots, thanks to its Ethernet interface. Energy meters can also be integrated via the RS-485 interface.



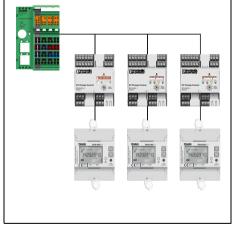
### EV Charge Control Advanced Plus for public applications

This charging controller combines all relevant control, communication, and monitoring functions in one compact housing. Along with Ethernet and RS-485 interfaces, the controller features DC residual current monitoring, an automatic connector release mechanism in the event of voltage failure, convenient user authorization via RFID, and convenient configuration via web interface.



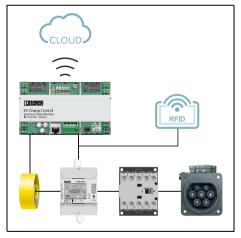
## Application example: single charging point

The Basic AC charging controller can be used to install simple charging stations with just a few components quickly – whether at home or in a commercial environment. Thanks to the optional connection of RCM modules for residual current detection, you can increase the voltage protection level of the charging station in accordance with normative specifications. Maximum system availability is thereby achieved.



### Application example: networked charging points

The configurable RS-485 interface can be used to connect various energy meters to the Advanced AC charging controller, making it possible to record the charging point performance data. Using the integrated Ethernet interface, you can configure the charging controller and establish an intelligent connection to higher-level control systems.



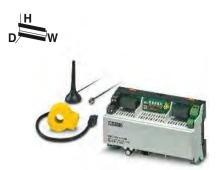
# Application example: charging point with back-end integration

As an option, the Advanced Plus charging controller is available with an integrated 3G modem and OCPP interface. This allows you to link a charging station to cloud-based billing systems via mobile network and OCPP. A MID energy meter can be integrated into the application for precise billing. This makes the controller an ideal solution for public applications.

### AC charging controllers

# For public and commercial applications

- For charging cases B and C
- AC charging in accordance with IEC 61851-1
- Ethernet interface for charging and energy management
- RS-485 interface for connection to power meters
- Optional 3G mobile network interface (OCPP 1.6]), DC residual current detection, connector release in the event of mains failure



EV Charge Control Advanced Plus 3G For charging cases B and C





EV Charge Control Advanced Plus For charging cases B and C

		Technical da	ita		Technical data				
Technical data									
Standards		IEC 61851-1			IEC 61851-1				
Charging mode		Mode 3, Case B + C			Mode 3, Case B + C				
Number of charging points		1			1				
Data interfaces									
Interface		RS-485 2-wire			RS-485 2-wire				
Interface	Number of interfaces	1			1				
	Number of supported devices	2	2						
	Protocol	Modbus/RTU (master)	Modbus/RTU (master)						
Interface	11010001	Ethernet			Ethernet				
internation	Number of interfaces	1			1				
	Protocol	Modbus/TCP			Modbus/TCP				
Wireless interface	11010001								
Frequency		900 MHz (HSPA) / 2100 MHz (HSPA) /							
riequency		850 MHz (GSM/GPRS/EDGE ) / 900 MHz	z (GSM/GPRS/	EDGE ) /					
		1800 MHz (GSM/GPRS/EDGE ) / 1900 N							
SIM Interface		Micro-SIM	,	,	-				
Protocols supported		OCPP 1.6J			-				
Residual current measuring range									
Residual current I <sub>An</sub>		30 mA (AC)			30 mA (AC)				
Δι		6 mA (DC)			6 mA (DC)				
Tripping time for $I_{\Delta n}$		< 180 ms			< 180 ms				
Rated current In		32 A (three-phase, 4x6 mm <sup>2</sup> )			32 A (three-phase, 4x6 mm <sup>2</sup> )				
		48 A (single-phase)			48 A (single-phase)				
Measuring current transducer									
Diameter of measuring coil		15 mm			15 mm				
Digital inputs/outputs									
Number inputs		5			5				
	Nominal input voltage U <sub>N</sub>	12 V		12 V					
Number outputs		4 digital outputs			4 digital outputs				
	Minimum output voltage	4 V		4 V					
	Maximum output voltage	30 V			30 V				
	Maximum output current	0.2 A (total current for all outputs; internal	lly supplied)		0.2 A (total current for all outputs; intern	ally supplied)			
			,,			, <i>,</i>			
Maxii	mum output current per channel	0.6 A (per output; externally supplied)			0.6 A (per output; externally supplied)				
Switching outputs									
Relay output		Relay output C <sub>1.2</sub>			Relay output C <sub>1.2</sub>				
	Maximum switching voltage	250 V AC (external supply)			250 V AC (external supply)				
	Maximum switching current	16 A			16 A				
Relay output		Motor switching output			Motor switching output				
	Maximum switching voltage	12 V (internal supply)			12 V (internal supply)				
	Maximum switching current	1 A (maximum)			1 A (maximum)				
Locking release in the event of main	ns failure	Integrated release function of the locking	actuator for disc	onnection	Integrated release function of the lockin	g actuator for disc	connection		
		of infrastructure charging plug and infrast	tructure socket c	utlet	of infrastructure charging plug and infra	structure socket	outlet		
Device supply									
Supply voltage		230 V			230 V				
General data									
Degree of protection		IP20			IP20				
Ambient temperature (operation)		-25°C 60°C			-25°C 60°C				
Mounting position		any			any				
Dimensions W/H/D		162 / 90 / 61 mm			162 / 90 / 61 mm				
Compliance/approvals									
Compliance		CE-compliant			CE-compliant				
		Ordering data			Ordering data				
Description		Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.		
·									
AC charging controller, DIN rail h	nousing	EV-CC-AC1-M3-CBC-RCM-ETH-3G	1018702	1	EV-CC-AC1-M3-CBC-RCM-ETH	1018701	1		
·	nousing	EV-CC-AC1-M3-CBC-RCM-ETH-3G	1018702	1	EV-CC-AC1-M3-CBC-RCM-ETH	1018701	1		



EV Charge Control Advanced For charging cases B and C



Module for release in the event of a mains failure in charging case B For EV Charge Control Advanced

Technical dat	ta		Technical da	ta				
IEC 61851-1 Mode 3, Case B + C 1			IEC 61851-1 / EN 61000-6-2 / EN 61000- Mode 3 1	6-3				
RS-485 2-wire 1 1 Modbus/RTU (slave) Ethernet 1 Modbus/TCP			- - - - - -					
· ·			:					
- 4 24 V			- 1 12 V					
4 digital outputs 12 V 30 V 0.2 A (total current for all outputs; internally	y supplied)							
0.6 A (per output; externally supplied)								
Relay output C <sub>1.2</sub> 250 V AC (external supply) 6 A Relay output R <sub>1.3</sub> and R <sub>2.4</sub> 30 V AC/DC (external supply) 6 A With EM-EV-CLR-12V locking release mod as an option	dule (Order No.	2903246)	Relay output OUT+/- Approx. 11.5 V (operating/capacitor voltage of ~ 0.5 V) 4 A - - - Integrated release function of the locking of infrastructure charging plug and infrast	actuator for disc	onnection			
230 V			12 V DC					
IP20 -25°C 60°C any 71.6 / 90 / 61 mm			IP20 -25°C 60°C any 35.6 / 90 / 61 mm					
CE-compliant		CE-compliant						
Ordering dat	а	1	Ordering da	ta				
Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.			
EM-CP-PP-ETH	2902802	1						

EM-EV-CLR-12V

2903246

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### AC charging controllers

# For private applications, in a DIN rail housing

- For charging cases B and C
- AC charging in accordance with IEC 61851-1
- Comprehensive configuration options
- Adjustable current
- RS-485 interface
- Push-in or screw connection



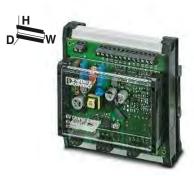
EV Charge Control Basic For charging case B With screw connection



EV Charge Control Basic For charging case B With Push-in connection

		Technical da	a	Technical da	ta			
Technical data Standards Charging mode Number of charging points					IEC 61851-1 / GB/T 18487.1-2015 / SAE J1772 Mode 3, Case B + C 1			
Data interfaces Interface	Number of interfaces Protocol	RS-485 2-wire 1 Modbus/RTU (slave)			RS-485 2-wire 1 Modbus/RTU (slave)			
Digital inputs/outputs Number inputs Number outputs	Nominal input voltage U <sub>N</sub> Minimum output voltage Maximum output voltage Maximum output current	5 12 V 4 digital outputs 5 V 30 V 0.5 A (total current for all outputs; internall	y supplied)		5 12 V 4 digital outputs 5 V 30 V 0.5 A (total current for all outputs; internall	y supplied)		
Switching outputs Relay output Relay output Locking release in the event of mains	Maximum switching voltage Maximum switching current Maximum switching voltage Maximum switching current failure	Relay output C <sub>1.2</sub> 250 V AC (external supply) 6 A Relay output LO+/- 12 V (internal supply) 2 A Integrated release function of the locking a of infrastructure charging plug and infrastr			Relay output C <sub>1.2</sub> 250 V AC (external supply) 6 A Relay output LO+/- 12 V (internal supply) 2 A Integrated release function of the locking a of infrastructure charging plug and infrastr			
Device supply Supply voltage General data		230 V			230 V			
Degree of protection Ambient temperature (operation) Mounting position Dimensions W/H/D Compliance/approvals		IP20 -35°C 70°C any 124 / 128 / 64 mm			IP20 -35°C 70°C any 124 / 128 / 67 mm			
Compliance		CE-compliant		CE-compliant				
		Ordering dat	a	1	Ordering dat	a	1	
Description		Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.	
AC charging controller, DIN rail ho	busing	EV-CC-AC1-M3-CBC-SER-HS	1622452	1	EV-CC-AC1-M3-CBC-SER-HS-MSTB	1081341	1	

Charging controllers AC charging controllers



EV Charge Control Basic For charging case C With screw connection

EV-CC-AC1-M3-CC-SER-HS



EV Charge Control Basic For charging case C With Push-in connection

Case C	IEC 61851-1 / GB/T 18487.1-2015 / SAE J Mode 3, Case C 1 RS-485 2-wire	11772				
2-wire	PS-495-2-wiro					
/RTU (slave)	1 Modbus/RTU (slave)					
outputs	5 12 V 4 digital outputs 5 V 30 V 0.5 A (total current for all outputs; internally supplied)					
C (external supply)	Relay output C <sub>1.2</sub> 250 V AC (external supply) 6 A - -					
	230 V					
70°C	IP20 -35°C 70°C any 124 / 128 / 67 mm					
	CE-compliant					
Ordering data	Ordering data					
Order No. Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.			

1622459

1

EV-CC-AC1-M3-CC-SER-HS-MSTB

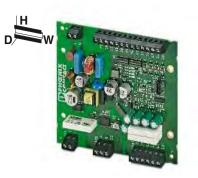
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### AC charging controllers

### For private applications as a PCB

- For charging cases B and C
- AC charging in accordance with IEC 61851-1
- Comprehensive configuration options
- Adjustable current
- RS-485 interface
- Push-in or screw connection
- With coated PCB as an option



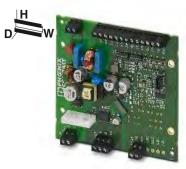
EV Charge Control Basic For charging case B With screw connection



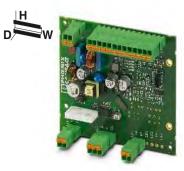
EV Charge Control Basic For charging case B With Push-in connection

		Technical data		Technical data				
Technical data								
Standards		IEC 61851-1 / GB/T 18487.1-2015 / SAE	1772		IEC 61851-1 / GB/T 18487.1-2015 / SAE J1772			
Charging mode		Mode 3, Case B + C			Mode 3, Case B + C			
Number of charging points		1			1			
Data interfaces								
Interface		RS-485 2-wire			RS-485 2-wire			
	Number of interfaces	1			1			
	Protocol	Modbus/RTU (slave)			Modbus/RTU (slave)			
Digital inputs/outputs		-			-			
Number inputs	Neminal input value as LL	5			5 12 V			
Neurole au audatuda	Nominal input voltage $U_N$	12V						
Number outputs		4 digital outputs 5 V			4 digital outputs 5 V			
	Minimum output voltage Maximum output voltage	3 V 30 V			30 V			
	Maximum output current	0.5 A (total current for all outputs; internall	(supplied)		•••	v cupplied)		
	Maximum output current	0.5 A (total current for all outputs, internal)	(supplied)		0.5 A (total current for all outputs; internally supplied)			
Switching outputs								
Relay output		Relay output C <sub>1.2</sub>	Relay output C <sub>1.2</sub>					
	Maximum switching voltage	250 V AC (external supply)			250 V AC (external supply)			
	Maximum switching current	6 A			6 A			
Relay output		Relay output LO+/-			Relay output LO+/-			
	Maximum switching voltage	12 V (internal supply)		12 V (internal supply)				
	Maximum switching current	2 A			2 A			
Locking release in the event of main	is failure	Integrated release function of the locking a of infrastructure charging plug and infrastr			Integrated release function of the locking a of infrastructure charging plug and infrastr			
Device supply								
Supply voltage		230 V			230 V			
General data								
Degree of protection		IP00			IP00			
Ambient temperature (operation)		-35°C 70°C			-35°C 70°C			
Mounting position		any			any			
Dimensions W/H/D		120 / 108 / 20 mm			120 / 108 / 34 mm			
Compliance/approvals								
Compliance		CE-compliant			CE-compliant			
		Ordering dat	a	_	Ordering dat	a	_	
Description		Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.	
AC charging controller								
Uncoated PCB		EV-CC-AC1-M3-CBC-SER-PCB	1622453	1	EV-CC-AC1-M3-CBC-SER-PCB-MSTB	1627353	1	
Coated PCB, Pcs./Pkt. 1		EV-CC-AC1-M3-CBC-SER-PCB-XC	1628393	1			1	
Coated PCB, Pcs./Pkt. 25		EV-CC-AC1-M3-CBC-SER-PCB-XC-25	1627743	25			1	

## Charging controllers AC charging controllers



EV Charge Control Basic For charging case C With screw connection



EV Charge Control Basic For charging case C With Push-in connection

Technical dat	ta		Technical data					
IEC 61851-1 / GB/T 18487.1-2015 / SAE Mode 3, Case C 1	J1772	IEC 61851-1 / GB/T 18487.1-2015 / SAE J1772 Mode 3, Case C 1						
RS-485 2-wire 1 Modbus/RTU (slave)		RS-485 2-wire 1 Modbus/RTU (slave)						
5 12 V 4 digital outputs 5 V 30 V 0.5 A (total current for all outputs; internally	y supplied)	5 12 V 4 digital outputs 5 V 30 V 0.5 A (total current for all outputs; internally supplied)						
Relay output C <sub>1.2</sub> 250 V AC (external supply) 6 A - -			Relay output C <sub>12</sub> 250 V AC (external supply) 6 A - -					
230 V			230 V					
IP00 -35°C 70°C any 120 / 108 / 20 mm			IP00 -35°C 70°C any 120 / 108 / 34 mm					
CE-compliant			CE-compliant					
Ordering data			Ordering data					
Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.			
EV-CC-AC1-M3-CC-SER-PCB EV-CC-AC1-M3-CC-SER-PCB-XC EV-CC-AC1-M3-CC-SER-PCB-XC-25X	1622460 1628394 1627742	1 1 25	EV-CC-AC1-M3-CC-SER-PCB-MSTB	1627367	1			

#### **Residual current monitoring**



#### Universal residual current monitoring

With a residual current monitoring module from the EV-RCM series, AC and DC residual currents can be detected with a measurement sensor in accordance with the requirements of IEC 62752.

In combination with a type A residual current device, the module saves you from having to use an expensive type B residual current device because it interrupts the charging process in the event of an error.

An optional connection to a charging controller from Phoenix Contact allows for convenient status monitoring as well as automatic resetting as soon as the residual current is no longer present. As a result, you avoid costly maintenance and ensure that the charging point is immediately available again for further charging processes.

#### **Compatible charging controllers**

Benefit from the status monitoring and automatic reset functions of the RCM modules by installing the EV Charge Control Basic or EV Charge Control Advanced charging controller from Phoenix Contact.

In this combination, they achieve the required protection against electric shock during the electric vehicle process in accordance with IEC 61851-1 and DIN VDE 0100-722.

#### Your advantages

- Universal residual current detection with a measuring transducer
- Use and continued operation of type A residual current circuit breaker possible
- High system availability, thanks to continuous residual current monitoring
- Status monitoring in conjunction with Phoenix Contact charging controllers
- Automatic reset via Phoenix Contact charging controllers in the event of errors

## **Charging controllers Residual current monitoring**

### **Residual current monitoring modules**

- Universal residual current monitoring for AC and DC residual current detection
- Response values DC 6 mA and AC 30 mA
- Protection of higher-level safety equipment, such as type A residual current circuit breakers, against DC residual currents



Single-channel module for one charging point



Two-channel module for two charging points

	Technical	data		Technical da	ata		
Input							
Measuring transducer input	Plug-in; front			Plug-in; front			
Switching outputs							
Alarm relay	Alarm relay 1 $I_{\Delta n}$ : DC residual currents Alarm relay 2 $I_{\Delta n}$ : AC residual currents			Alarm relay 1 $I_{\Delta n}$ : AC and DC residual cu Alarm relay 2 $I_{\Delta n}$ : AC and DC residual cu			
Maximum switching voltage	250 V			250 V			
Maximum switching current	5 A (1 N/O contact each)			5 A (1 N/O contact each)			
Method of operation	Closed-circuit current			Closed-circuit current			
Residual current measuring range							
Rated frequency	≤ 2000 Hz			≤ 2000 Hz			
Number of channels	1			2			
Measuring range	± 300 mA (peak)		± 300 mA (peak)				
Current measuring range	50 A (45 Hz 50 Hz)		50 A (45 Hz 50 Hz)				
Residual current l∆n1	30 mA		30 mA				
Residual current IΔn2	6 mA		6 mA				
Load current	32 A		32 A				
Response time at 1 x IΔn	< 180 ms		< 180 ms				
Response time at 2 x I <sub>An</sub>	< 70 ms		< 70 ms				
Response time at 5 x IAn	< 20 ms		< 20 ms				
Response time at I <sub>N</sub>	< 500 ms		< 500 ms				
Reload function	3 switch-on attempts at intervals of 15	min	3 switch-on attempts at intervals of 15 min				
Measuring current transducer							
Cable feed-through diameter	15 mm			15 mm			
Supply	via RCM module			via RCM module			
Connection method	Connector			Connector			
Signal interfaces							
Number of interfaces	1 (measuring transducer)			2 (measuring transducer)			
Device supply							
Supply voltage range	100 V AC 240 V AC (nominal voltage	e range)		100 V AC 240 V AC (nominal voltage range)			
Nominal power consumption	< 0.5 W (no-load)			< 0.5 W (no-load)			
Frequency range	45 Hz 60 Hz			45 Hz 60 Hz			
General data							
Degree of protection	IP20 (terminal blocks)			IP20 (terminal blocks)			
Operating elements	Test/reset button; 2 status LEDs			Test/reset button; 2 status LEDs			
Ambient temperature (operation)	-25°C 80°C			-25°C 80°C			
Dimensions W/H/D	36 / 90 / 70.5 mm		36 / 90 / 70.5 mm				
Compliance/approvals							
Compliance	CE-compliant			CE-compliant			
	Ordering	Ordering data			Ordering data		
			]			]	
Description	Туре	Order No.	Pcs./Pkt.	Туре	Order No.	Pcs./Pkt.	
RCM module							
	EV-RCM-C1-AC30-DC6	1622450	1	EV-RCM-C2-AC30-DC6	1622451	1	