

1622450

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The residual current module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current circuit breaker) is protected against potential DC residual currents. A 1 or 2-channel product version is available.

## Commercial data

Item number	1622450
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBBGA
GTIN	4055626039794
Weight per piece (including packing)	359.9 g
Weight per piece (excluding packing)	190 g
Customs tariff number	85362010
Country of origin	DE



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## Technical data

## Product properties

Product type	Residual current monitoring module
Product family	CHARX control basic
Application	Residual current monitoring module (RCM) for AC charging controllers for private applications (EU/CN)
Operating elements	Test/reset button; 2 status LEDs
Number of charging points	1
Charging standard	Type 2
Charging mode	Mode 3

## System properties

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Number of charging points	
Number of charding points	

## Electrical properties

Type of charging current	AC 3-phase
Current consumption	< 1 W
Power consumption	< 5 VA
Reload function	3 switch-on attempts at intervals of 15 min.

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### Measuring current transducer

Connection method	Connector
Supply	via RCM module
Diameter of measuring coil	15 mm

#### Measuring range: Residual current

Measuring range. Itesidual current	
Rated frequency f <sub>n</sub>	≤ 2000 Hz
Nominal differential current	± 300 mA (Peak)
Measuring range	50 A (45 Hz 50 Hz)
Residual current $I_{\Delta n}$	30 mA
	6 mA
Rated current I <sub>n</sub>	32 A
Tripping time for $I_{\Delta n}$	< 180 ms
Response time for 2 x $I_{\Delta n}$	< 70 ms
Tripping time for $5xI_{\Delta n}$	< 20 ms
Tripping time for I <sub>N</sub>	< 500 ms

#### Supply

Supply voltage range	100 V AC 240 V AC (nominal voltage range)
Max. current consumption	22 mA
Nominal power consumption	< 0.5 W (No-load)
Frequency range	45 Hz 60 Hz



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## Input data

#### Digital

## Output data

### Switching

Output name	Alarm relay 1 $I_{\Delta n}$ : DC residual currents
	Alarm relay 2 $I_{\Delta n}$ : AC residual currents
Maximum switching voltage	250 V
Max. switching current	5 A (1 N/O contact each)
Number of contacts as N/O contacts	1
Note regarding the switch contact	Quiescent current
Switching cycles	10000

#### Connection data

#### Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 14

### Interfaces

#### Others

Number of interfaces	1 (Measuring transducer)
Transmission length	max. 100 m (with shielded, twisted-pair data cable)
Number of interfaces	2 (Error/Reset)

#### **Dimensions**

Width	36 mm
Height	90 mm
Depth	70.50 mm

### Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Terminal blocks)
	IP30 (Inserts)
Ambient temperature (operation)	-25 °C 80 °C
Climatic class	according to IEC 60271/-1 / -2/ -3

## Approvals

#### Conformity/Approvals



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Conformance	CE-compliant	
Standards and regulations		
Standards		
Standards/regulations	IEC 61851-1	
Mounting		
Mounting position	any	



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## Classifications

<b>ECLASS</b>
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	ECLASS-13.0	27144703		
ETIM				
	ETIM 9.0	EC002889		
UNSPSC				
	UNSPSC 21.0	39121800		



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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(CAS: 7439-92-1)
SCIP	c06c4ec1-9761-40e2-8470-0bdbc25b0729

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