

Residual Current Circuit Breaker With Overload Protection

20A/40A 30mA 4P Type A

THE
PLATINUM

RANGE

BY **ROLEC**

Designed and developed specifically for the electric vehicle charging industry, this range of Type A, DC sensitive RCBOs provide protection against human electric shock, overload and short circuit as well as protection against fire danger caused by fault current resulting from electrical equipment damage.

Ideal for use in domestic, commercial and industrial environments.



TECHNICAL DATA

- Pole No. : 4P
- Residual current characteristics : A
- Rated current : 20/40A
- Tripping curve : D
- Rated short-circuit capacity : 6kA
- Rated voltage : 230/400V AC
- Rated frequency : 50/60Hz
- Rated residual operating current : 30mA
- Tripping duration : Instantaneous $\leq 0.1s$
- Electro-mechanical endurance : 4000 cycles
- Terminal connection height : H1=19mm, H2=23mm



Developed for the EV
Charging Industry



Conforms to
IEC61009



Conforms to
GB16917.1



S Mark
Certified



CB
Certified



CE
Certified

SPECIFICATIONS

OVERLOAD CURRENT PROTECTION CHARACTERISTICS

Test Procedure	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
a	1.13I _n	cold	t ≥ 1h	no tripping	
b	1.45I _n	after test a	t < 1h	tripping	Current in the 5s in the increase of stability
c	2.55I _n	cold	1s < t < 60s (I _n ≤ 32A) 1s < t < 120s (I _n > 32A)	tripping	
d	10I _n	cold	t ≥ 0.1s	no tripping	Turn on the auxiliary switch to close the current
e	20I _n	cold	t < 0.1s	tripping	Turn on the auxiliary switch to close the current

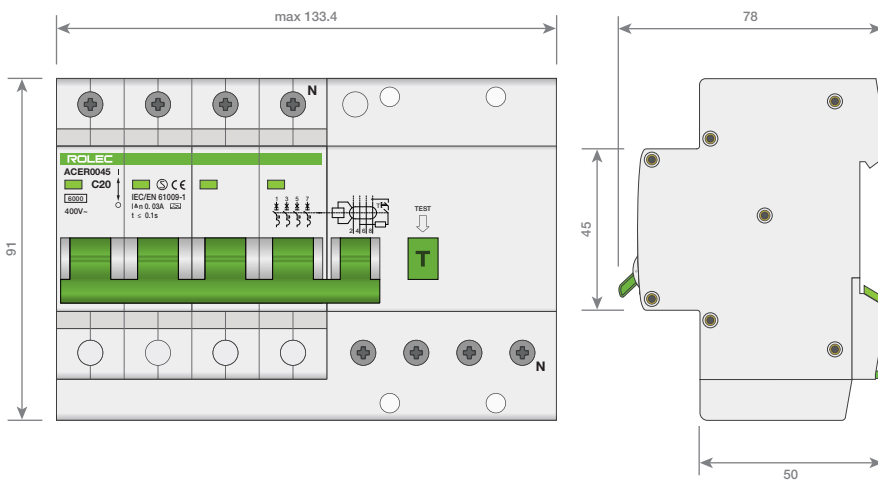
Note: The item (a) test shall be conducted at the reference temperature (30-35) °C. If the test is conducted at other temperatures, the temperature compensation shall be taken into consideration

RESIDUAL CURRENT ACTION BREAKING TIME

Type	I _n /A	I _{Δn} /A	Residual Current (I _Δ) Is Corresponding To The Following Breaking Time (S)					
			I _{Δn}	2 I _{Δn}	5 I _{Δn}	5A, 10A, 20A, 50A, 100A, 200A, 500A	I _Δ t	
A type	Any value	Any value	0.3	0.15	0.04	0.04	0.04	Max. Break-time

The general type RCBO whose current I_{Δn} is 0.03mA or less can use 0.25A instead of 5I_{Δn}

DIMENSIONS



CHARACTERISTIC CURVE & WIRING DIAGRAM

