

Residual Current Circuit Breaker With Overload Protection

20A/40A 30mA 1P+N 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

- Type : Electro-magnetic type
- Residual current characteristics : A
- Pole No. : 1P+N
- Tripping curve : C
- Rated short-circuit capacity : 10kA
- Rated current : 20/40A
- Rated voltage : 240V AC
- Rated frequency : 50/60Hz
- Rated residual operating current : 30mA
- Tripping duration : Instantaneous $\leq 0.1s$
- Electro-mechanical endurance : 4000 cycles
- Connection terminal : Pillar terminal with clamp
- Connection capacity :
 - Rigid conductor 16mm
 - Terminal connection height : 21.5mm



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	tripping	
d	5I _n	cold	t ≥ 0.1s	no tripping	Turn on the auxiliary switch to close the current
e	10I _n	cold	t < 0.1s	tripping	Turn on the auxiliary switch to close the current

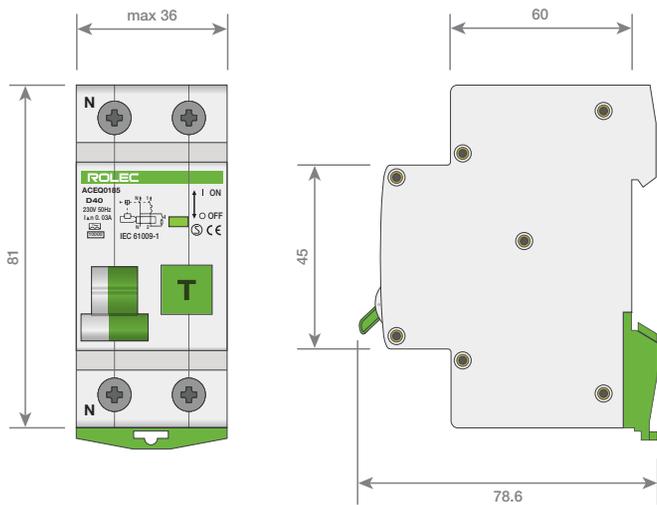
The terminology “cold state” refers to that no load is carried before testing at the reference setting temperature

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

