RCBO 1 module (18mm), RCE1

△ According IE61009-1

△ Rated short circuit breaking capacity Icn 6kA

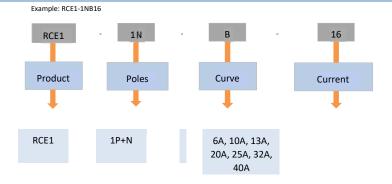
∆ 1p+n

- △ Tripping characterisitcs B and C
 - △ Rated current up to 40Amp
- △ Rated operational voltage 230VAC
 - △ Connectable with accessories
 - △ Pin- type busbars connection

General information

The SEP RCE1 RCBO is a prodtive device against residual current, shortcircuit and overload. It is suitable to the AC circuit of 50/60Hz, the rated voltage is 230V, rated current up to 40A. It is mainly used to protect human safety from electrical shock and to prevent fire disaster caused by residual current due to damaged equipment. It also can be used in the infrequent on-and-off switching operation under the normale cases. This RCBO is mainly used in the domestic, utility and industrial applications. Due to the small design of only 18mm width it safes 50% of the space.

Type key



Certification marks





Remarks

Despite all the efforts we take to give as well documented and correct as possible information, we can not be reliable for any damage that may accure due to a mis- typing or wrong interpertation of the given information. The sales and delivery for these products will be according our standard terms. All prices are indicative only and can be changed without advance notice. If you find any mistake in this catalogue, we would be thankfull if you would let us know. This way you help us to give a better service.

Technical Data - RCE1

RCBO 1p+n (18mm), 6kA

General parameters

High limiting of short circuit current

Suitable for household, utillity as well as industrial applications

Saves 50% space on RCBO with a permanent magnet principle of residual current device

RCE1 - Voltage depending tripping function

RCBO's should be tested regularly with a period of one month. This is the resposibility of the user of an installation given by law

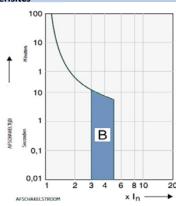
Electrical parameters					
Tested according		IEC/EN 61009			
Rated operational voltage	Ue	230V AC			
Maximum working voltage	Umax	240V AC			
Min voltage for MCB function		12V AC/DC			
Min voltage for RCD function	Umin	40V AC			
Voltage range of the test button		110 - 254VAC			
Rated frequency		50/60 Hz			
Rated short circuit capacity	lcn	6kA			
Rated service short circuit	lcs	6kA			
capacity					
Rated residual M/B capacity	Idm	3 kA			
Rated M/B capacity	lm	3 kA			
Poles		1p+n			
Rated current	In	640 A			
Rated resiudal current		10mA, 30mA			
Sensitivity to residual current		A-type (residual AC and pulsating DC current)			
Time characteristic of RCD		undelayed			
Tripping characteristics	 	B, C			
Rated impulse withstand voltage	Uimp	4 kV			
Rated insulation voltage	Ui	500 V			
Transient overvoltage category		3			
Selectivity class	·	3			
Dielectric test voltage	·	6 kV			
Mechanical life time		10 000 operation cycles			
Electrical life time		4 000 operation cycles			
Max. back-up fuse		max. 125A gG			
Line voltage connection		arbitrary - above or below			

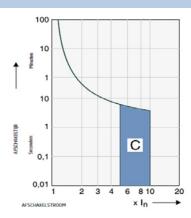
Mechanical parameters	
Device width	18 mm (per pole)
Device height	89 mm
Device depth	77 mm
Mounting	easy- fastening onto 35 mm device rail (DIN)
Degree of protection (all sides)	IP40
Degree of protection (connection terminals)	IP20
Connection possibility	cable / busbar
Terminals	cage clamp terminal
Terminal capacity	10 mm²
Fastening torque of terminals	1,2 Nm
Busbar connection	Pin
Busbar thickness	10 / 16 mm²
Storage temperature	-25 °C + 70 °C
Reference temperature	30 °C
Ambient temperature	-25 °C + 40 °C (witch daily average < 35 °C)
Installation class	III
Polution degree	2
Weight	0,122 kg

Technical Data RCE1

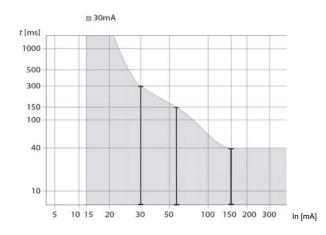
RCBO 1p+n (18mm), 6kA

Tripping characterisitcs

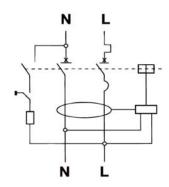




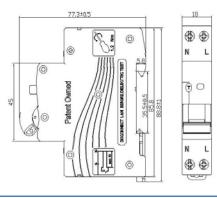
Triping time



Wiring diagram



Dimensions



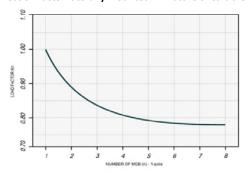
Technical Data RCE1

RCBO 1p+n (18mm), 6kA

Dependence of Tripping Characteristics on Ambient Temperature

T	In (T) [A]								
[°C]	6 A	10 A	16 A	20 A	25 A	32 A	40 A		
-20	8	13.5	20	24.5	29.8	39.5	50.5		
-15	7.8	13.3	19.8	24.3	29.7	39.3	50.4		
-10	7.6	13	19.5	24	29.5	39	50.2		
-5	7.3	12.7	19.2	23.8	29.3	38.8	50		
0	7.2	12.5	19.1	23.7	29.2	38.6	48.8		
5	7	12.3	18.8	23.5	29	38.4	48.6		
10	6.8	12.1	18.6	23.3	28.8	38.2	48.4		
15	6.6	12	18.5	23.1	28.6	38	48.1		
20	6.4	11.8	18.3	22.8	28.4	37.8	47.8		
25	6.2	11.5	18	22.6	28.2	37.5	47		
30	6	10	16	20	25	32	40		
35	6	9.9	15.7	19.7	24.6	31.5	39.2		
40	5.9	9.8	15.4	19.3	24.3	31.1	38.8		
45	5.8	9.8	15.1	18.8	24	30.8	38.3		
50	5.7	9.6	14.9	18.5	23.8	30.1	38		
55	5.6	9.5	14.7	18.2	23.5	29.5	36.5		

Correction factor laterally mounted miniature circuit breakers



Correction factor (K) in mutual thermal influence of parallel mounted breakers at rated load.

Power loss

In [A]	6A	10A	16A	20A	25A	32A	40A
P [W]	1,5	1,5	3	3	3,5	5	5,5