Specifications and technical data are subject to change without notice.
Please contact to confirm relevant information on ordering.

No.18, Gutang Rd, Shanghai 201209, China
+86 21 5032 0898
+86 21 5032 0828
info@ebasee.com
www.ebasee.com

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EBASEE

Smart Living Green Ebasee

MODULAR TERMINAL

COMPANY PROFILE

As a leading supplier in the low voltage electrics industry, Shanghai Ebasee Electric Co., Ltd. products have been used for residential, commercial and industrial applications with its quality and service. EBASEE brand is recognized for its quality and reliability in an ever-increasing number of markets worldwide. So far EBASEE products have been approved by international labs including BV, TUV, Intertek, with KEMA, CB, SEMKO, RoHS, CE, and CCC etc.

With qualified raw materials and components supply, all products are manufactured by EBASEE's defined international specifications. We have 4 semi-auto production lines, up-to-date quality control facilities, well-trained and experienced workers. Moreover, with a technical R & D team and fully equipped in-house laboratory, EBASEE factory can carry out efficient new products development, daily production and QC.

EBASEE have a wide range of cooperations with world leading companies in new products development, OEM and ODM cooperation. Meanwhile, we process the idea of green and smart energy, working with universities such as Xi'an Jiao Tong University to get more intellgent and environmental electric solutions.

EBASEE focused on achieving growth through the success of worldwide partners. Guided by the philosophy of "market-oriented", powered by the idea of "Quick response and flexible supply", EBASEE support our worldwide partners to compete against established global players, to deliver the most systemetic and cost-effective products and service in the market.

"Smart life, Green EBASEE"

PRODUCTION LINE

SMART LIVING GREEN EBASEE

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 0012Q33188R2S/3100

We hereby certify that

Shanghai Ebasee Electric Co.,Ltd.

Registration Address: Building 1, No.512, Shangchuan Road, Pudong New District, Shanghai, China
Operation Address: Room 4228, 4F-A, No.18, Gutang Road, Pudong New District, Shanghai, China

by reason of its

Quality Management System

has been awarded this certificate for compliance with the standard

GB/T 19001-2016 / ISO 9001:2015

The Quality Management System Applies in the following area:

Productive Technology Management and Sales of Low Voltage Electric Products

Certified since: February 2, 2015 Valid from: November 9, 2020 Valid until: February 1, 2024

CHINA QUALITY CERTIFICATION CENTRE

A 0089015

INTERNATION QUALITY CERTIFICATE

EBASEE products have been approved by international labs including BV, TUV, Intertek, with KEMA, CB, SEMKO, RoHS, CE, and CCC etc.

ATTESTATION
of conformity with European Directives

Product: MCB
Reference: BM8R Series
Issued to: Shanghai Ebasee Electric Co., Ltd.
Address: No.18 Gutang Road, Pudong, Shanghai 201209 P. R. China
Manufacturer: Shanghai Ebasee Electric Co., Ltd.
Technical characteristics: Type B,C and D
Ue=230V(1+10%~-(1P); 415V~(2P,3P,3P+N,4P)
240V~(1P+N);
Ie=6;10;16;20A;25A;32A;40A;50A;63A
Icu=Icn1=10000A, Ics=7500A,
Energy limit class: Limited(up to EN 60898-1)
Ui=500V;Uimp=4kV
Grid distance: 35mm;Screw diameter of load terminal =4.5mm

The submitted sample of the above equipment has been rated for CE marking according to following European Directive and following standards:

Low Voltage Directive 2014/35/EU

Standards	Report number	Report date
EN 60898-1:2015 + A1:2019 + A11:2015 + A12:2018 + A13:2019	R180075	13/05/2019

Shanghai (P.R. China), 3. June 11th, 2019.

Charlie CHEN
Product Line Manager

DEKRA

CERTIFICATE

Issued to:
Applicant: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road, Pudong, Shanghai, 201209, China
Manufacturer/licensee: SASSIN INTERNATIONAL ELECTRIC SHANGHAI CO., LTD. NO. 2388, JINHAI ROAD, PUDONG, SHANGHAI, 201209, CHINA

Product(s) : Moulded-Case Circuit Breaker
Trade name(s) : EBASEE
Type(s)/model(s) : EBS(W)-100S, EBS(W)-250R

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
– a type test according to the standard EN 60947-2:2006+ A1:2009, IEC 60947-2:2006 + A1:2009;
– an inspection of the production location according to CENELEC Operational Document OD 02;
– a certification agreement with the number 213454.

DEKRA hereby grants the right o use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 21 March 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3306173.01

DEKRA Certification B.V.

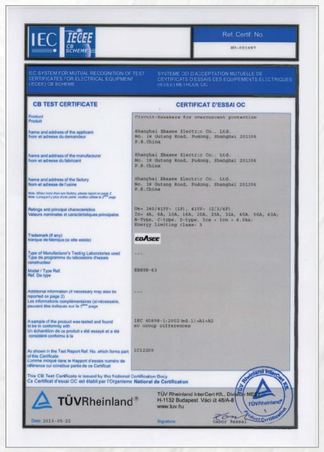
drs. G.J. Zoetbrood
Managing Director

F.S. Strikwerda
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Registered Arnhem 09089386


IEC IECEE CB SCHEME

Ref. Certif. No.
RU-003497

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME OU D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) MEMBRE OC

CB TEST CERTIFICATE — CERTIFICAT D'ESSAI OC

Product / Produit: Circuit-breakers for overcurrent protection

Name and address of the applicant / Nom et adresse du demandeur: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road, Pudong, Shanghai 201206 P.R.China

Name and address of the manufacturer / Nom et adresse du fabricant: Shanghai Ebasee Electric Co., Ltd. No. 18 Gutang Road, Pudong, Shanghai 201206 P.R.China

Name and address of the factory / Nom et adresse de l'usine: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road, Pudong, Shanghai 201206 P.R.China

Ratings and principal characteristics / Valeurs nominales et caractéristiques principales: See Annex

Trademark (if any) / Marque de fabrique (si elle existe): EBASEE

Customer's Testing Facility (CTF) Stage used: /

Model / Type Ref.: SX80

Additional information (if necessary may also be reported on page 2) / Informations complémentaires (si nécessaires, peuvent être indiquées sur la 2ème page): ☑ Additional Information on page 2

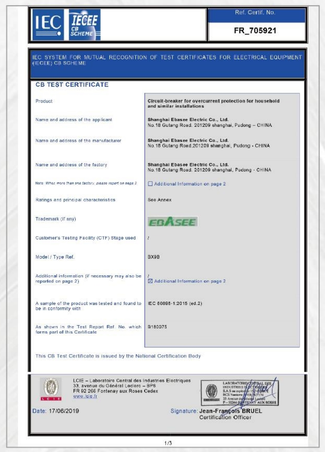
A sample of the product was tested and found to be in conformity with / Un échantillon de ce produit a été essayé et a été considéré conforme à la: IEC 60898-1:2002(ed.1)+A1+A2 avec écarts ci-dessous

As shown in the Test Report Ref. No. which forms part of this Certificate / Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat: R180075

This CB Test Certificate is issued by the National Certification Body / Ce Certificat d'essai OC est délivré par l'Organisme National de Certification

TÜVRheinland®

Date: 2013-05-22


IEC IECEE CB SCHEME

Ref. Certif. No.
FR_705921

IEC- SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Circuit breaker for overcurrent protection for household and similar installations

Name and address of the applicant: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road 201209 shanghai, Pudong – CHINA

Name and address of the manufacturer: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road 201209 shanghai, Pudong – CHINA

Name and address of the factory: Shanghai Ebasee Electric Co., Ltd. No.18 Gutang Road 201209 shanghai, Pudong – CHINA

Note: When more than one factory, please report on page 2

☑ Additional Information on page 2

Ratings and principal characteristics: See Annex

Trademark (if any): EBASEE

Customer's Testing Facility (CTF) Stage used: /

Model / Type Ref.: SX80

Additional information (if necessary may also be reported on page 2): ☑ Additional Information on page 3

A sample of the product was tested and found to be in conformity with: IEC 60898-1:2015 (ed.2)

As shown in the Test Report Ref. No. which forms part of this Certificate: R180075

This CB Test Certificate is issued by the National Certification Body

LCIE – Laboratoire Central des Industries Electriques, 33, avenue du Général Leclerc – BP9, FR 92 260 Fontenay aux Roses Cedex, www.lcie.fr

Date: 17/06/2019

Signature: Jean-François GIRUEL, Certification Officer

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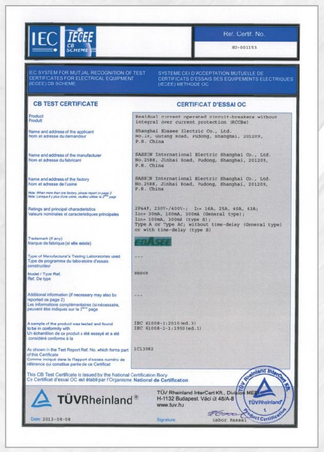

IEC IECEE CB SCHEME

Ref. Certif. No.
RU-003153

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME OU D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE — CERTIFICAT D'ESSAI OC

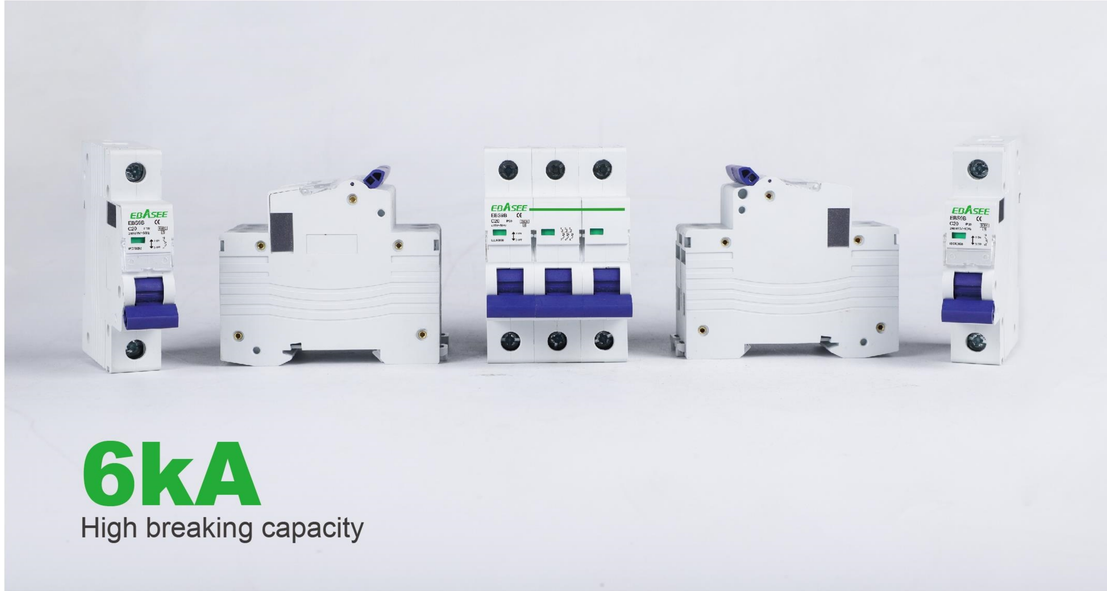
Product / Produit: Residual current operated circuit-breakers without integral over current protection (RCCBs)

Name and address of the applicant: Shanghai Ebasee Electric Co., Ltd. No.18, Gutang Road, Pudong, Shanghai, 201209, P.R. China

Name and address of the manufacturer: SASSIN International Electric Shanghai Co., Ltd. No.2388, Jinhai Road, Pudong, Shanghai, 201209, P.R. China

Name and address of the factory: SASSIN International Electric Shanghai Co., Ltd. No.2388, Jinhai Road, Pudong, Shanghai, 201209, P.R. China

Ratings and principal characteristics: 2P+N#f; 230V;40(60)~; 1x 16A, 25A, 40A, 63A; 6mA, 10mA, 30mA, 100mA, 300mA, 500mA, 1000mA, 3000mA; 10kA; 3000A; 3000A; 3000A



1.Function

EBS9B Series circuit breaker is used in protection lighting or power distribution system from over-load and short-circuit, apply to the circuit of AC 50Hz/60Hz, rated voltage less than 415V. The product adopt high fire resistant and shockproof plastics, quality metal materials, which is neoteric in structure, light in weight, reliable in performance.
Products comply with IEC/EN60898-1.

2.Nomenclature

EBS 9B - 63 / 1P

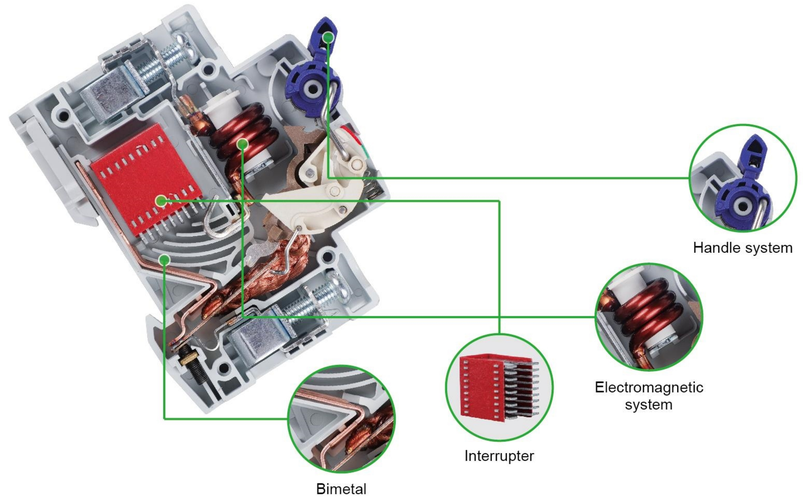
- 1P — Poles
- 63 — Frame level
- 9B — Design code
- EBS — Company code

3.Safety Features

▶ Rapid ARC Extinguishing system

The rapid arc extinguishing system built by science that can quickly extinguish the arc.

And prevent the danger of the electric current which cause by the arc.

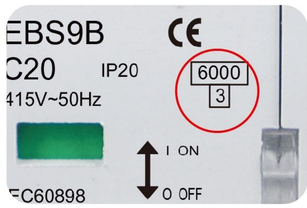


▶ ON/OFF Indicator

Red and Green indication light,Clearly working status display, convenient to check safety and controllable.

▶ Energy Class 3

Energy Class 3 ensures the lowest possible flow of energy through the circuit in case of fault preventing damage to surrounding and downstream equipment and networks.



▶ IP20 Protection

A rating of “IP20” denotes protection from solid objects 18mm/1P in size.

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4.Reliability Features

▶ Sealed terminal

a. Thermosetting material, no melting point, no buring ,more safety.

b. Double terminals connection.

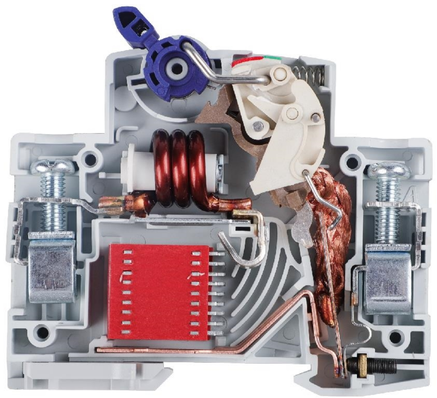
Reliable Termination

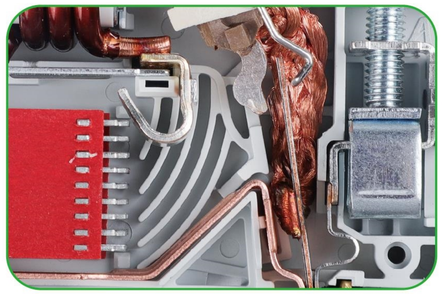
- World class terminal reliability
- Excellent electrical joint
- Excellent mechanical joint
- 2.5 N-m torque
- Firm cable grip
- Excellent cable pull Withstand
- Excellent temperature performance

5.Performance Features

▶ Contact Tip

Silver graphite contact tips ensures longer life and maximum safety against contact welding due to superior anti-welding properties enhancing safety and life of system





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6.Installation Features

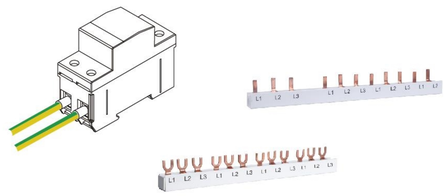
▶ Handle

This handle is made of high-quality materials, corrosion-resistant and durable.

▶ Terminal Shutter

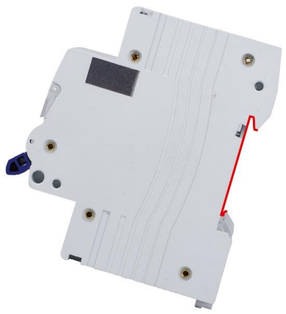
Insertion of cable in the wrong place below the wrong termination is not possible.

Flat locking shutters cover the gap behind the box to eliminate the possibility of the wrong entry of wire during installation.



▶ Easy Installation

Rail mounting, no tools required, easy to install.



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7.Specifications

Brand	EBASEE
Model	EBS9B
Rated Current	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated Voltage	240/415V
Number of poles	1P
Breaking capacity	6kA
Function	Overload protection
	Short-circuit protection
	Isolation protection

Brand	EBASEE
Model	EBS9B
Rated Current	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated Voltage	415V
Number of poles	2P
Breaking capacity	6kA
Function	Overload protection
	Short-circuit protection
	Isolation protection

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Brand	EBASEE
Model	EBS9B
Rated Current	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated Voltage	415V
Number of poles	3P
Breaking capacity	6kA
Function	Overload protection
	Short-circuit protection
	Isolation protection

Brand	EBASEE
Model	EBS9B
Rated Current	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated Voltage	415V
Number of poles	4P
Breaking capacity	6kA
Function	Overload protection
	Short-circuit protection
	Isolation protection

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Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
	Poles	P	1, 2, 3, 4,1P+N,3P+N
	Rated voltage Ue	V	240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B, C, D
Mechanical features	Electrical life	t	10000
	Mechanical life	t	20000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average≤35℃)	℃	-5~+40
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar/U-type bar
	Terminal size top / bottom for cable	mm²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

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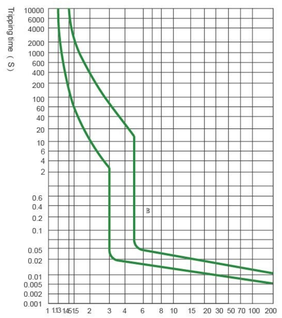
8.Release

Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B/C/D	1.13In	Cold	t≤1h	Non-tripping	Current smoothly rises to specified value within 5s
b	B/C/D	1.45In	Following item a test	t<1h	Tripping	
c	B/C/D	2.55In	Cold	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping	
d	B	3In	Cold	t≤0.1s	Non-tripping	Switch on the power supply by closing the auxiliary switch
	C	5In				
	D	10In				
e	B	5In	Cold	t<0.1s	Tripping	
	C	10In				
	D	20In				

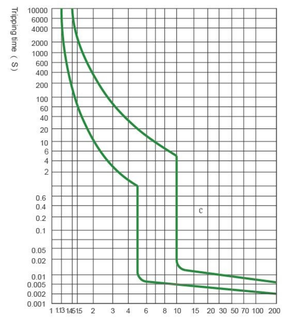
Note: The term"cold "means that the test is carried out at a reference calibration temperature without load before the test.

Curve B



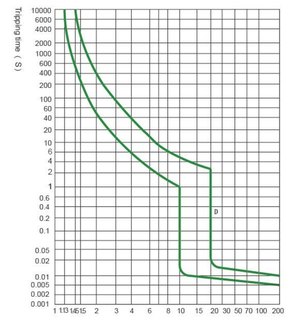
Multiple of rated current

Curve C



Multiple of rated current

Curve D



Multiple of rated current

9.Conductor

Copper cross-section(mm²)	Rated current In(A)
1	In≤6
1.5	6<In≤13
2.5	13<In≤20
4	20<In≤25
6	25<In≤32
10	32<In≤50
16	50<In≤63

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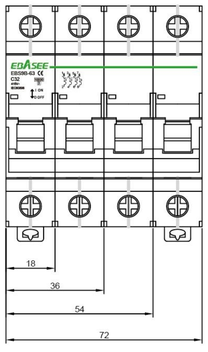
10.Temperature Derating

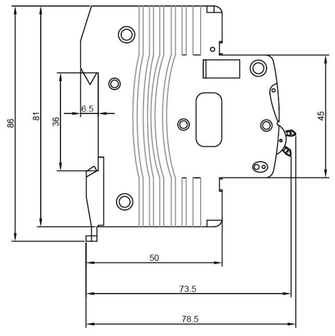
The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30℃.

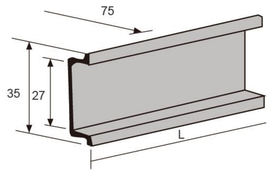
Ambient temperature Rated current (A)	-35℃	-30℃	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
2	2.60	2.52	2.46	2.38	2.28	2.20	2.08	2.00	1.92	1.86	1.76
4	5.20	2.04	4.92	4.76	4.56	4.40	4.16	4.00	3.84	3.76	3.52
6	7.80	7.56	7.38	7.14	6.84	6.60	6.24	6.00	5.76	5.64	5.28
10	13.20	12.70	2.50	12.00	11.50	11.10	10.60	10.00	9.60	9.30	8.90
16	21.12	20.48	20.00	19.20	18.40	17.76	16.96	16.00	15.36	4.88	14.24
20	26.40	25.60	25.00	24.00	23.00	22.20	21.20	20.00	19.20	8.60	17.80
25	33.00	32.00	31.25	30.00	28.75	27.75	26.50	25.00	24.00	23.25	22.25
32	42.56	41.28	40.00	38.72	37.12	35.52	33.92	32.00	30.72	29.76	28.16
40	53.20	51.20	50.00	48.00	46.40	44.80	42.40	40.00	38.40	37.20	35.60
50	67.00	65.50	63.00	60.50	58.00	56.00	53.00	50.00	48.00	46.50	44.00
63	83.79	81.90	80.01	76.86	73.71	70.56	66.78	63.00	60.48	58.90	55.44

When several simultaneously operating circuit breakers are mounted side by side in a small enclosure,the temperature rise inside the enclosure causes a reduction in current rating.
You must then assign the rating (already derated if necessary according to ambient temperature), a downrating factor of 0.8.

11.Dimensions







12.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level Poles Tripping characteristic and rated current Quantity	To order EBS9B-63 Miniature circuit breaker, 2Poles, curve C, rated current 20A, 10kA, quantity is 100 pieces, should be marked: MCB EBS9B-63/2PC20 10kA 100PCS.