

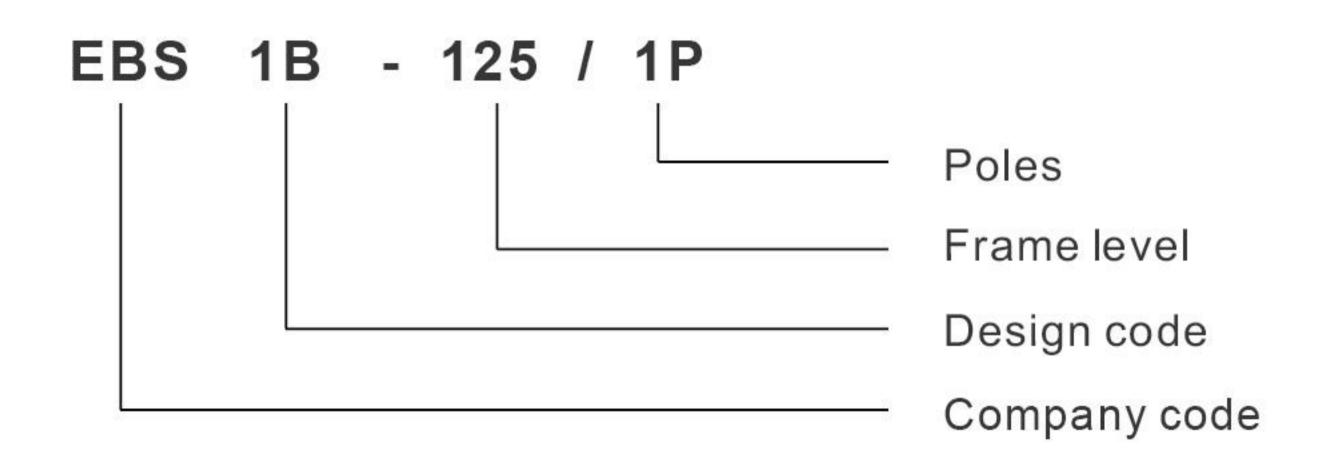


#### 1.Function

EBS1B-125 Series circuit breaker is used in protection lighting or power distribution system from over-load and short-circuit, apply to the circuit of AC 50/60Hz, 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, IEC/EN60947-2.

## 2. Nomenclature



## 3.Specifications

Standard		IEC/EN60898-1, IEC/EN60947-2	
Rated current In		63, 80, 100, 125	
Poles		1, 2, 3, 4, 1P+N, 3P+N	
Rated voltage Ue		240/415	
Insulation voltage Ui	V	500	
Rated frequency	Hz	50/60	
Rated breaking capacity	А	10000(For:H);6000(For:/)	
Rated impulse withstand voltage(1.2/50)Uimp	V	6000	
Dielectric test voltage at ind. Freq. for 1min	kV	2.5	
Pollution degree		3	
Thermo-magnetic release characteristic		8-12In, C, D	
Electrical life	t	1500	
Mechanical life	t	8000	
Protection grade		IP20	
Reference temperature for setting of thermal element	°C	30	
Ambient temperature (with daily average≤35°C)	°C	-5~+40	
Storage temperature	°C	-25~+70	
Terminal connection type		Cable/Pin-type busbar	
Terminal size ten / bettem for ceble	mm²	35	
l erminal size top / bottom for cable		18-1/0	
Tamainal aima tam / battama fambanaban	mm²	35	
i erminai size top / bottom for busbar		18-1/0	
Tightening torque		3.5	
		31	
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
		From top and bottom	
	Rated current In  Poles  Rated voltage Ue Insulation voltage Ui Rated frequency Rated breaking capacity Rated impulse withstand voltage(1.2/50)Uimp Dielectric test voltage at ind. Freq. for 1min Pollution degree Thermo-magnetic release characteristic Electrical life Mechanical life Protection grade Reference temperature for setting of thermal element Ambient temperature (with daily average≤35°C) Storage temperature Terminal connection type  Terminal size top / bottom for cable  Terminal size top / bottom for busbar  Tightening torque	Rated current In  Poles  P Rated voltage Ue Insulation voltage Ui Rated frequency Rated breaking capacity Rated impulse withstand voltage(1.2/50)Uimp V Dielectric test voltage at ind. Freq. for 1min RV Pollution degree Thermo-magnetic release characteristic Electrical life Mechanical life Protection grade Reference temperature for setting of thermal element Ambient temperature (with daily average≤35°C) Storage temperature Terminal connection type Terminal size top / bottom for cable Terminal size top / bottom for busbar  Tightening torque  Reference temperature  °C  **C  **Tightening torque**  **In-lbs**	

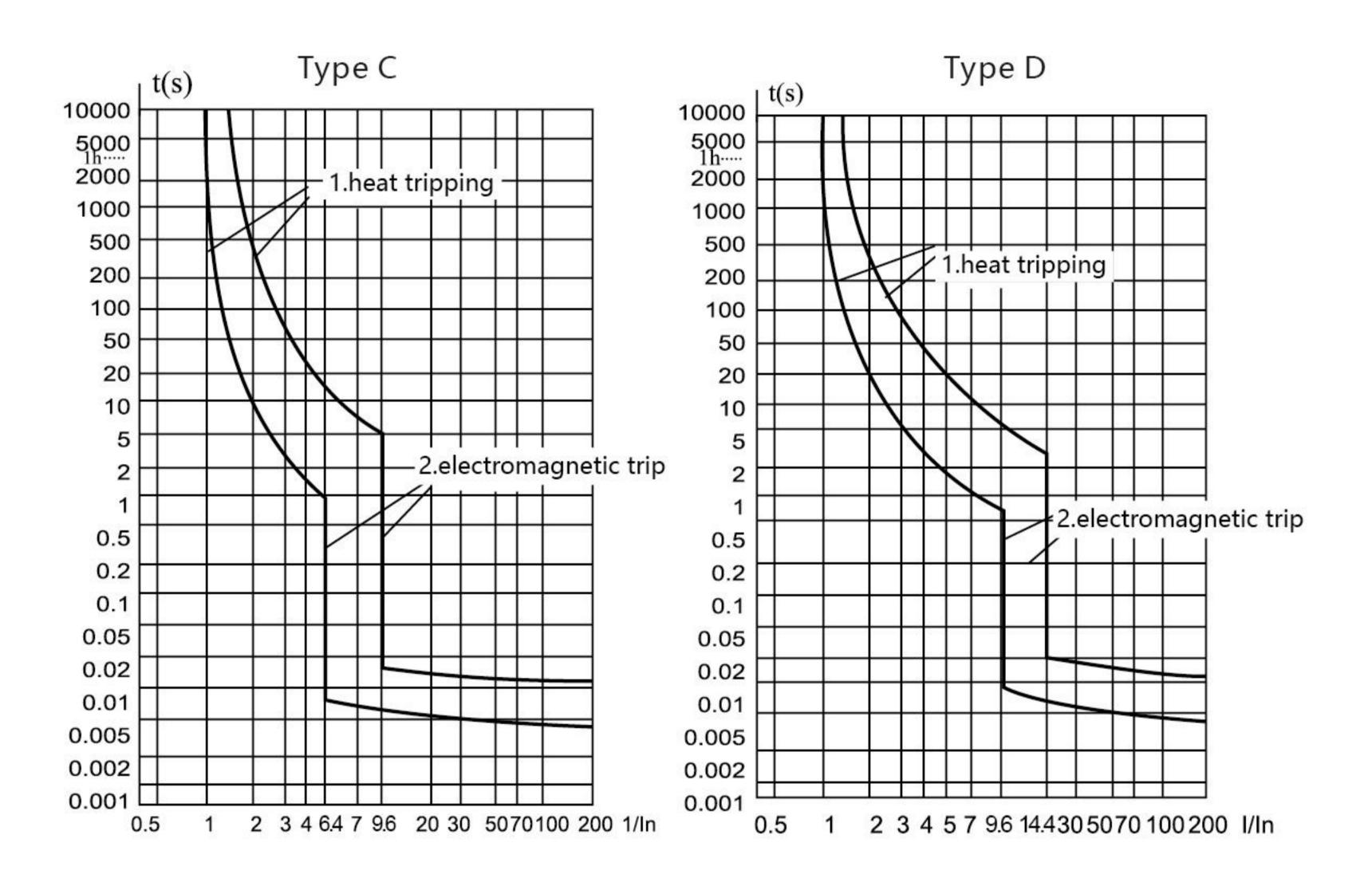




#### 4.Release

	Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
	а	C/D	1.05ln	Cold	1h (ln≤63A) 2h (ln>63A)	) Non-tripping	
	b	C/D	1.3ln	Following item a test	1h (ln≤63A) 2h (ln>63A)	Tripping	Current smoothly rises to specified value within 5s
	С	C/D	2ln	Cold	1s <t<300s< td=""><td>Tripping</td></t<300s<>	Tripping	
	d	С	8ln×80%	Cold	Cold t≤0.2s	Non-tripping	Switch on the power supply by closing the auxiliary switch
		D	12ln×80%				
	е	С	8ln×120%	Cold	t<0.2s	Tripping	
		D	12ln×120%				

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



#### Conductor

Rated current In(A)	
In=63	
63 <in≤80< td=""></in≤80<>	
80 <in≤125< td=""></in≤125<>	

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#### EBS1B-125 Miniature Circuit Breaker



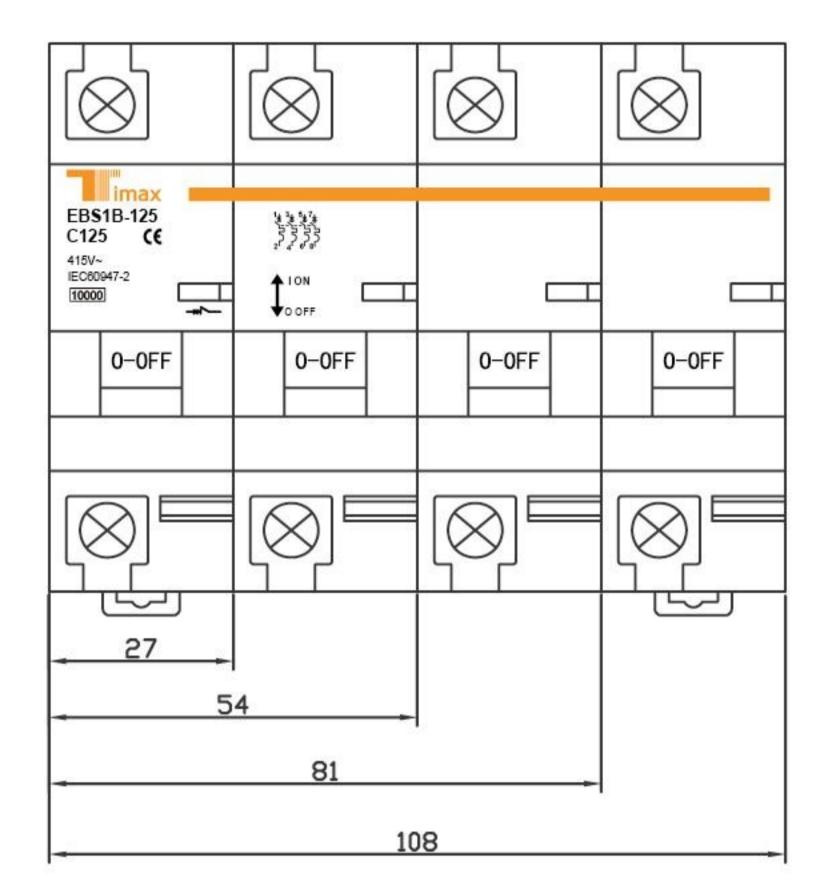
# 6. Temperature Derating

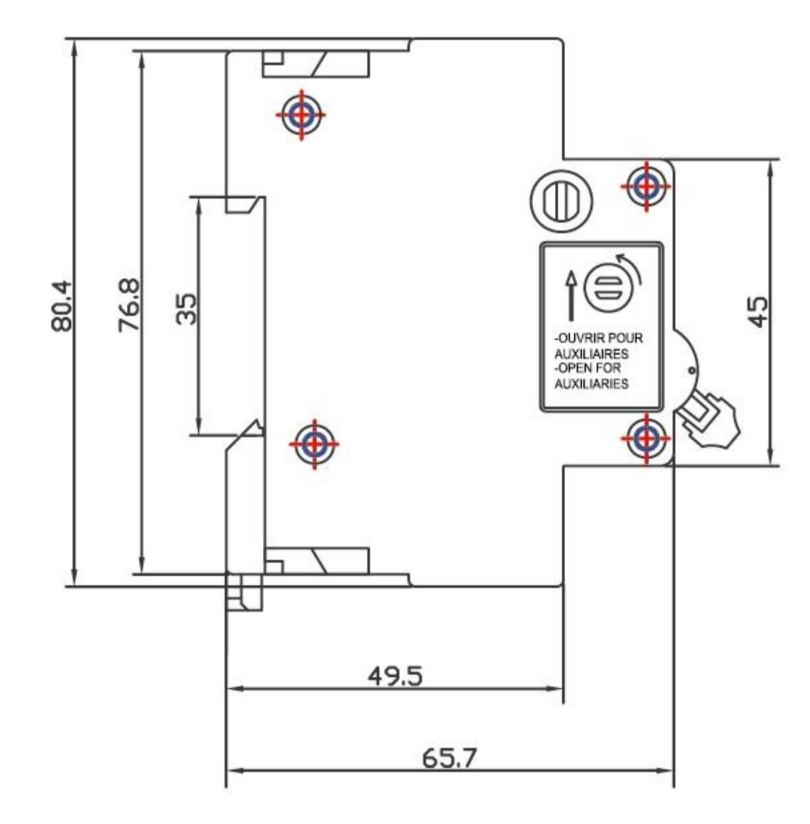
The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30 °C.

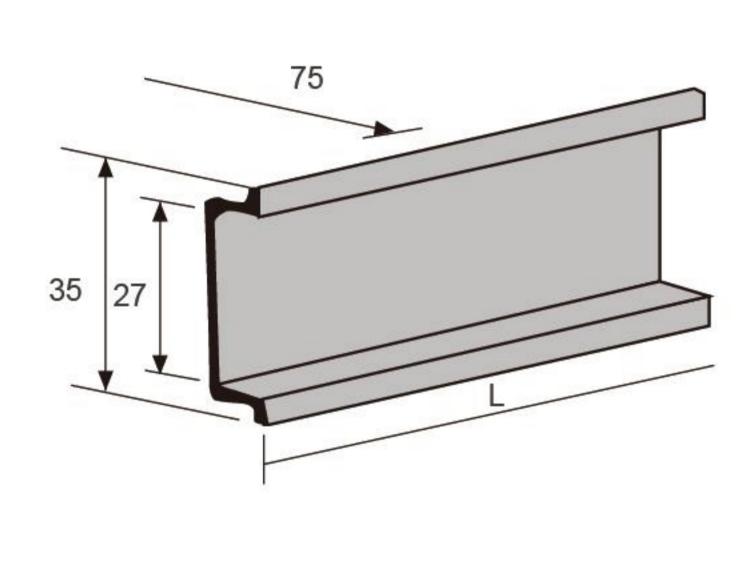
When several simultaneously operating circuit breakers are mounted side by side in a small enclosure, the temperature rise inside the enclosure causes a reduction in current rating.

You must then assign the rating (already derated if necessary according to ambient temperature), a derating factor of 0.8.

## 7.Dimensions







#### 8. Order Note

Following items should be marked when ordering	Ordering sample		
Product name, model & frame level	To order the EBS1B-125 miniature circuit breaker, 1P, curve C, rated		
Poles	current is 63A, 10kA and quantity is 100 pieces, should be marked:		
Tripping characteristic and rated current	EBS1B-125/1P C63 10kA, 100 PCS.		
Quantity			

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