

LFB3 Miniature Circuit Breaker



1. General

1. Application:

For protecting equipments against overload and short circuit.

2. General rules for choosing MCB

a. Technical data of the network at the point considered:

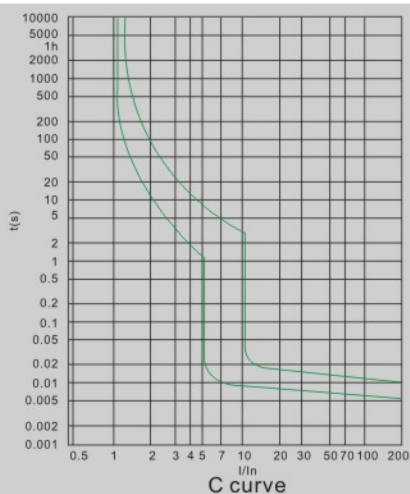
The earthing systems, short-circuit current at the circuit breaker installation point. which must always be less than the breaking capacity of this device, network normal voltage.

b. There is 1 curve characteristics for LFB3 magnetic operation:

C curve(5-10 I_n) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

2. Specifications

Curve



LFB3 Miniature Circuit Breaker

Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	3,6,10,16,20,25,32
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	A	300
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind. Freq for 1min	kV	2
Mechanical features	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
Connection			From top

3. Temperature derating

Please refer to table below for temperature compensation correction.

Rated current In(A)	Temperature compensation coefficient under various operational temperature				
	20℃	30℃	40℃	50℃	60℃
6	1.07	1.00	0.93	0.85	0.77
10	1.05	1.00	0.94	0.88	0.81
16	1.09	1.00	0.90	0.88	0.83
20	1.05	1.00	0.94	0.88	0.81
25	1.04	1.00	0.94	0.88	0.80
32	1.06	1.00	0.93	0.86	0.78

4. Overall and mounting dimensions(mm)

