

DZ30LE Earth Leakage Circuit Breaker



1. General

1. Application

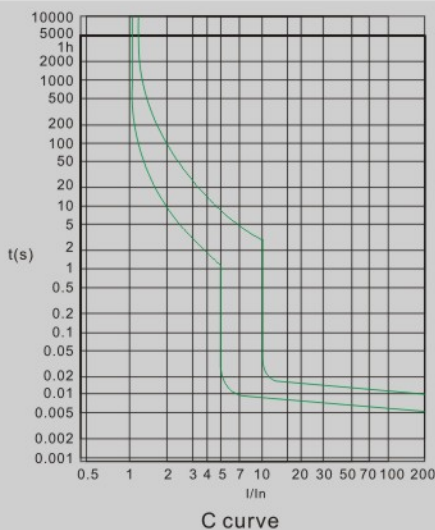
- Personnal and fire protection
- Cable and line protection against overload and short-circuits

2. General rules for choosing ELCB:

- $I\Delta n=30\text{ mA}$: additional protection in the case of direct contact
- 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



DZ30LE Earth Leakage Circuit Breaker

Standard			IEC/EN 61009-1	
Electrical features	Type(wave form of the earth leakage sensed)		AC	
	Thermo-magnetic release characteristic		C	
	Rated current In	A	6, 10, 16, 20, 25, 32	
	Poles	P	1P+N	
	Rated voltage Ue	V	230	
	Rated sensitivity IΔn	A	0.03	
	Rated residual making and breaking capacity IΔm	A	500	
	Rated short-circuit capacity Icn	A	3000	
	Break time under IΔn	s	≤0.1	
	Rated frequency	Hz	50/60	
	Rated impulsewithstand voltage(1.2/50)Uimp	V	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Insulation voltage Ui	V	250	
	Pollution degree		2	
Mechanical features	Electrical life		2000	
	Mechanical life		4000	
	Fault current Indicator		Yes	
	Protection degree		IP20	
	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		mm²	16	
		AWG	18-5	
Terminal size top/bottom for busbar		mm²	25	
		AWG	18-3	
Mounting			On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top		

3. Temperature derating

Please refer to table below for temperature compensation correction

Rated current $I_n(\text{A})$	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	0.88	0.78

4. Overall and mounting dimensions(mm)

