

DZ47LE,LFM47LE 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 RCBO:

a. Rated residual operating current

$I_{\Delta n} \leq 30 \text{ mA}$: additional protection in the case of direct contact

$I_{\Delta n} \leq 300 \text{ mA}$: preventative fire protection in the case of ground fault currents

b. Tripping class

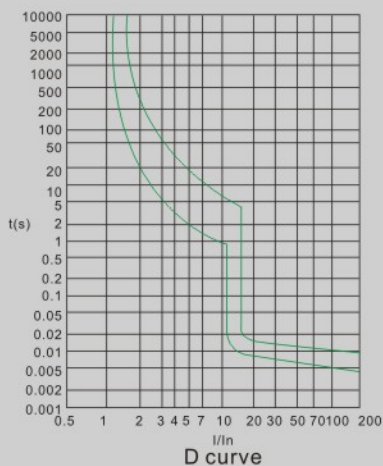
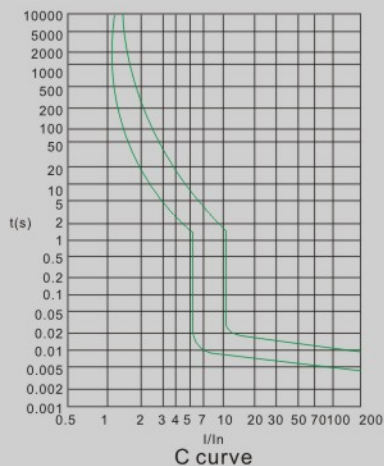
AC class-Tripping is ensured for sinusoidal alternating currents, whether they be quickly applied or slowly increase.

c. Tripping curve

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.

D curve(10-14 I_n)protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers, breakdown lamps).

2. Specifications



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Standard			IEC/EN 61009-1
Electrical features	Poles	P	1P+N, 2, 3, 3P+N, 4
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		C, D
	Rated current I_n	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage U_e	V	230/400
	Rated sensitivity $I\Delta n$	A	0.03, 0.05, 0.1, 0.3
	Rated residual making and breaking capacity $I\Delta m$	A	500($I_n < 63A$) 630($I_n = 63A$)
	Rated short-circuit capacity I_{cn}	A	3000/4500
	Break time under $I\Delta n$	s	≤ 0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage U_i	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	2000
	Mechanical life	t	2000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average $\leq 35^\circ C$)	$^\circ C$	-5~+40
	Storage temperature	$^\circ C$	-25~+70
Installation	Terminal connection type		Cable / U-type busbar / Pin-type busbar
	Terminal size top/bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		ln-lbs.	18
	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.

Temperature	-15 $^\circ C$	-5 $^\circ C$	0 $^\circ C$	10 $^\circ C$	20 $^\circ C$	30 $^\circ C$	40 $^\circ C$	55 $^\circ C$
Temperature compensation coefficient	1.19	1.15	1.13	1.06	1.05	1.00	0.96	0.89

4. Overall and mounting dimensions(mm)

