









Technical Data

Electrical Features

Rated current In	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A			
Poles	1P,1P+N,2P,3P,3P+N,4P			
Rated voltage Ue	240/415V			
Insulation voltage Ui	500V			
Rated frequency	50/60Hz			
Rated breaking capacity	4,500A			
Energy limiting class	3			
Rated impulse withstand voltage(1.5/50) Uimp	4,000V			
Dielectric test voltage at ind. Freq. for 1 min	2kV			
Pollution degree	2			
Thermo-magnetic release characteristic	B,C,D			

Mechanical Features

Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature (with daily average≤35°C)	-5°C~+40°C
Storage temperature	-25°C~+70°C

Installation

Terminal connection type	Cable/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3AWG
Terminal size top/bottom for busbar	25mm ² 18-3AWG
Tightening torque	2.5Nm 22In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom

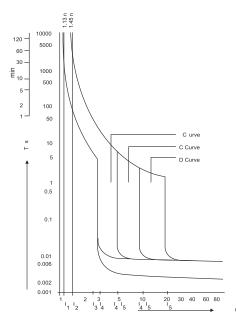
Combination with accessories

Auxiliary contact	DZ47-OF
Alarm contact	DZ47-FB
Shunt release	DZ47-MX
Over/Under voltage release	DZ47-MV+MN



MCB Characteristics

Characteristics Curves



	Thermal Tripping			Magnetic Tripping		
As per	No	Tripping	Time	Hold	Trip	Time
IEC60898	tripping	current	Limits	current	current	Limits
	current	I ₂	t	1,4	I ₅	t
B Curve	1.13×I _N		≥1h	3×I _N		≥0.1s
		1.45×I _N	<1h		5×I _N	<0.1s
C Curve	1.13×I _N		≥1h	$5\times I_N$		≥0.1s
		1.45×I _№	<1h		10×1 _N	<0.1s
D Curve	1.13×I _N		≥1h	$10 \times I_N$		≥0.1s
		1.45×I _N	<1h		20×I _N	<0.1s

Tripping characteristics

Based on the Tripping Characteristics, MCB are available in "B", "C" and "D" curve to suit different types of applications.

"B" Curve for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits) Short circuit release is set to (3-5)In.

"C" Curve for protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits) Short circuit release is set to (5-10)In.

"D" Curve for protection of electrical circuits with cause high inrush current, typically 12-15 times the thermal rated current (transformes, x-ray machines etc.) Short circuit release is set to (10-20) In.

Circuit Diagram









Overall and Installation Dimension(mm)



