



JX30/JXL30-32 Series

Miniature Circuit Breaker
Residual Current Circuit Breaker
With Over Current Protection



JX30-32 Series



1P+N

Application

JX30-32 is applicable to a line of AC 50/60Hz, 230/240V for protecting overload and short circuit, and rated current up to 32A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC 60898-1.

Technical Data

Electrical Features

Rated current I_n	6, 10, 16, 20, 25, 32A
Poles	1P+N
Rated voltage U_e	230/240V~
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Energy limiting class	3
Rated impulse withstand voltage(1.5/50) U_{imp}	4,000V
Dielectric test voltage at ind. Freq. for 1 min	2kV
Pollution degree	2
Thermo-magnetic release characteristic	B,C

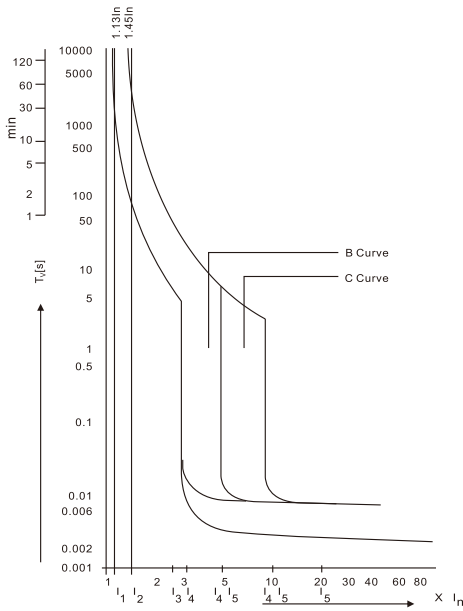
Mechanical Features

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 $\leq 35^\circ\text{C}$)	-5°C~+40°C
Storage temperature	-25°C~+70°C

Installation

Terminal connection type	Cable/Pin-type busbar
Terminal size top/bottom for cable	16mm ² 18-5AWG
Terminal size top/bottom for busbar	16mm ² 18-5AWG
Tightening torque	1.5Nm 14In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom

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Characteristics Curves

As per IEC60898	Thermal Tripping			Magnetic Tripping		
	No tripping current	Tripping current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
B Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 1h$ $< 1h$	$3 \times I_N$	$5 \times I_N$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 1h$ $< 1h$	$5 \times I_N$	$10 \times I_N$	$\geq 0.1s$ $< 0.1s$

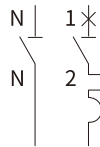
Tripping characteristics

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 $(3-5)I_N$.

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

Circuit Diagram



Overall and Installation Dimension(mm)

