

JXL30-32 Series



1P+N

Application

JXL30-32 series RCBO are mainly used in circuit of AC50/60Hz, rated voltage up to 240V, rated current up to 32 A for protection of personal electric shock hazard with overload protection and short circuit protection, also can infrequently switch over electric equipment and illuminating line under normal conditions, especially suitable for industrial and commercial lighting distribution system. Conformity with the standard IEC61009-1.

Technical Data

Electrical Features

Mode	Electronic
Type	AC,A
Rated current I_n	6, 10, 16, 20, 25, 32A
Poles	1P+N
Rated voltage U_e	240V~
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated residual operating current ($I_{\Delta n}$)	10, 30, 100, 300mA
Break time under $I_{\Delta n}$	$\leq 0.1s$
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 1min	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 $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +40^\circ\text{C}$
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Installation

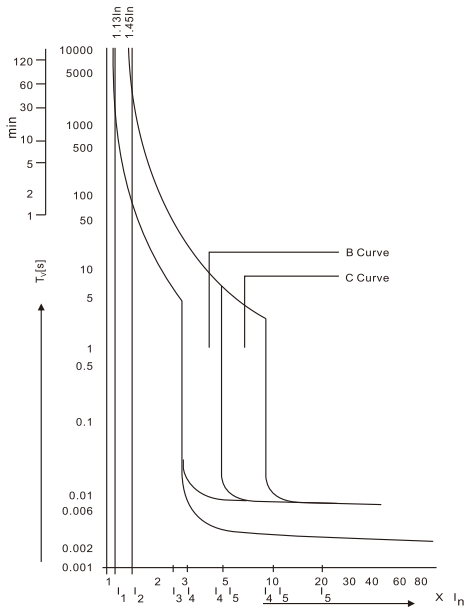
Terminal connection type	Cable/Pin-type busbar
Terminal size top/bottom for cable	16mm ² 18-5AWG
Terminal size top/bottom for busbar	16mm ² 18-5AWG
Tightening torque	2.5Nm 22In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom

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Characteristics

Tripping Current Range

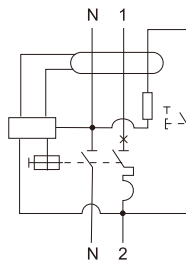
Type	0.5I Δ n < I Δ < I Δ n		
AC	Lagging Angle	I Δ n > 0.01A	I Δ n ≤ 0.01A
A	0°	0.35I Δ n ≤ I Δ ≤ 1.4I Δ n	0.35I Δ n ≤ I Δ ≤ 2I Δ n
	90°	0.25I Δ n ≤ I Δ ≤ 1.4I Δ n	0.25I Δ n ≤ I Δ ≤ 2I Δ n
	135°	0.11I Δ n ≤ I Δ ≤ 1.4I Δ n	0.11I Δ n ≤ I Δ ≤ 2I Δ n



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 × I _N	1.45 × I _N	≥ 1h < 1h	3 × I _N	5 × I _N	≥ 0.1s < 0.1s
C Curve	1.13 × I _N	1.45 × I _N	≥ 1h < 1h	5 × I _N	10 × I _N	≥ 0.1s < 0.1s

Circuit Diagram



Overall and Installation Dimension(mm)

