

Circuit-breaker, 3p, 1600A, fixed



**Part no.** IZM32N3-V16F-1  
EP-500296

General specifications		
Product name		Eaton IZM32/IN32 circuit-breaker
Part no.		IZM32N3-V16F-1
EAN		9010653018018
Product Length/Depth		511 millimetre
Product height		514 millimetre
Product width		492 millimetre
Product weight		60.325 kilogram
Compliances		IEC/EN 60947 IEC
Product Tradename		IZM32/IN32
Product Type		Circuit-breaker
Product Sub Type		None
Product Specification Details		
Actuator color		Green
Actuator type		Push button
Adjustment range short-term delayed short-circuit release - max		16000 A
Adjustment range short-term delayed short-circuit release - min		960 A
Adjustment range undelayed short-circuit release - max		24000 A
Adjustment range undelayed short-circuit release - min		3200 A
Ambient operating temperature - max		70 °C
Ambient operating temperature - min		-20 °C
Ambient storage temperature - max		70 °C
Ambient storage temperature - min		-20 °C
Amperage Rating		1600 A
Breaking time		40 ms
Closing delay via spring release		30 ms
Degree of protection		IP20 IP41 with door sealing frame IP55 with protective cover
Device construction		Built-in device fixed built-in technique
Direction of incoming supply		As required
Electrical connection type of main circuit		Rail connection
Features		Complete device with protection unit Motor drive optional
Fitted with:		Switched-off indicator
Frame		IZM32
Heat dissipation at rated current with fixed mounting		120 W
Mounting Method		Fixed
Number of auxiliary contacts (change-over contacts)		4
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
Number of poles		Three-pole
Number of standard mechanical operations per hour - max		60
Operating sequence up to 690 V, 50/60 Hz (IEC/EN 60947)		85 kA
Overload release current setting - max		1600 A
Overload release current setting - min		640 A
Overvoltage category		III
Pollution degree		3
Position of connection for main current circuit		Back side

Power of withdrawable switch with cassette		240 W
Protection		Selective operation
Rated impulse withstand voltage (U <sub>imp</sub> )		8 kV AC
Rated insulation voltage (U <sub>i</sub> )		1000 V
Rated operating voltage (U <sub>e</sub> ) - min		690 V
Rated operating voltage (U <sub>e</sub> ) at AC - max		690 V
Rated short-circuit breaking capacity at 400 V, 50 Hz		85 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz		187 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz		187 kA
Rated short-time withstand current (t = 1 s)		85 kA
Rated short-time withstand current at 50/60 Hz (t = 3 s)		65 kA
Rated uninterrupted current (I <sub>u</sub> )		1600 A
Rated uninterrupted current (I <sub>u</sub> ) at 50°C		1600 A
Rated uninterrupted current (I <sub>u</sub> ) at 60°C		1600 A
Rated uninterrupted current (I <sub>u</sub> ) at 70°C		1600 A
Release system		Electronic release
Suitable for		Main conducting paths with 85 kA in IT electrical power networks up to U = 440 V
Terminal capacity (copper bar)		5 mm x 100 mm (2x) for fixed mounting (black) 5 mm x 100 mm (2x) for withdrawable units (black)
Type		Air circuit breakers/switch-disconnector Open circuit breaker
Utilization category		B
Voltage rating at AC		690 V AC
Weight of cassette version (3-pole)		34 kg
Weight of cassette version (4-pole)		38 kg
Weight of fixed mounting version (3-pole)		68 kg
Weight of fixed mounting version (4-pole)		86 kg
Weight of fixed withdrawable version (3-pole)		80 kg
Weight of fixed withdrawable version (4-pole)		102 kg