DATASHEET - IZMX40H3-A32F



Circuit-breaker, 3p, 3200A, fixed

IZMX40H3-A32F Part no. Catalog No. 149731

Alternate Catalog RESC323B22QNMNN2MN1X



Delivery program

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			System protection
Installation type			Fixed
Construction size			IZMX40
Release system			Electronic release
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	3200
Rated ultimate short-circuit breaking capacity up to 440V/690V 42/42	I _{cu}	kA	105
Rated service short-circuit breaking capacity up to 440V/690V 42/42	Ics	kA	105
Overload release, min.	I _r	Α	1600
Overload release, max.	I _r	Α	3200
Non-delayed	$I_i = I_n x \dots$		2 - 12
Notes			

Main terminals must be separately ordered.

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-40 - +70
Operating (open)		°C	-25 - +70
Mounting position			30° 30°
			30° 30°
Utilization category			В
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
Direction of incoming supply			as required
Main conducting paths			
Rated current = rated uninterrupted current	$\boldsymbol{I}_n = \boldsymbol{I}_u$	Α	3200
Rated uninterrupted current at 50 °C	I _u	Α	3200
Rated uninterrupted current at 60 °C	I _u	Α	3200

V AC V AC kA V kA	12000 690 57.6 III/3 1000 231 166 85 66 105 75 105 105 75
kA V kA kA kA kA kA kA kA kA k	57.6 III/3 1000 231 166 85 66 105 105 75 105 105 22
V kA	III/3
kA	1000 231 166 85 66 105 105 75 105 105 22
kA	1000 231 166 85 66 105 105 75 105 105 22
kA kA kA kA kA kA ms ms	166 85 66 105 105 105 105 25 22
kA kA kA kA kA kA ms ms	166 85 66 105 105 105 105 25 22
kA kA kA kA kA kA ms ms	166 85 66 105 105 105 105 25 22
kA kA kA kA kA kA kA kA kA	85 66 105 105 75 105 105 105 22
kA kA kA kA kA kA ms	66 105 105 75 105 105 22
kA kA kA kA kA kA ms	66 105 105 75 105 105 22
kA kA kA kA kA	105 105 75 105 105 105 35
kA kA kA kA ms	105 75 105 105 105 25 22
kA kA kA kA ms	105 75 105 105 105 25 22
kA kA kA kA ms	105 75 105 105 105 25 22
kA kA kA ms	75 105 105 75 35 22
kA kA kA ms	75 105 105 75 35 22
kA kA kA ms	105 105 75 35 22
kA kA ms ms	105 75 35 22
kA kA ms ms	105 75 35 22
kA ms ms	75 35 22
ms ms	35 22
ms	22
ms	22
ms	45
ns/h	60
W	385
kg	43
kg	56
mm	3 x 80 x 10
	These are values used in separate switchgear. The actual values will depend on the temperature around the circuit-breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information. Permissible continuous current for circuit-breakers operating in switchboards

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	3200
Equipment heat dissipation, current-dependent	P _{vid}	W	385
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			

10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eato provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instru leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

protection (coresisted)		
Rated permanent current lu	А	3200
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	А	1600 - 3200
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	6400 - 38400
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting		No
DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		2
With switched-off indicator		Yes
With under voltage release		No
Number of poles		3
Position of connection for main current circuit		Back side
Type of control element		Push button
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		Yes
Degree of protection (IP)		IP20