DATASHEET - IZMX40N4-A32W



Circuit-breaker, 4p, 3200A, withdrawable

Powering Business Worldwide

Part no. Catalog No. Alternate Catalog

149987 RES8324W22QNMNN2MNDX

IZMX40N4-A32W

No.

Delivery program

7 P - 3 -			
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			System protection
Installation type			Withdrawable
Construction size			IZMX40
Release system			Electronic release
Standard/Approval			IEC
Number of poles			4 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	$\boldsymbol{I}_n = \boldsymbol{I}_u$	Α	3200
Rated ultimate short-circuit breaking capacity up to 440V/690V 42/42	I _{cu}	kA	85
Rated service short-circuit breaking capacity up to 440V/690V 42/42	I _{cs}	kA	85
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.

Note concerning the product

Cassette needs to be ordered separately.

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	$I_n = I_{ij}$	Α	3200

New Person New	Data di un'intermenta di companta da FO 000			2000
Rand aminimus with limit voltage	Rated uninterrupted current at 50 °C	l _u	Α	3200
Rated coperational voltage United VAC 1000 Flated coperational voltage Up 20 VAC 800 Concilitage category/bollution degree Up 20 100 100 Standing category/bollution degree Up 20 100 100 Standing category/bollution degree Up 20 100 100 Rated shart-creat making capacity Up 20 100 100 get to 460 V 9000 to 1 Up 20 100 100 Stand shart-creat interating capacity Leg Up 20 100 100 Stand shart-creat interating capacity Leg Up 20 100 100 Stand shart-creat interating capacity Leg Up 20 100 100 100 Stand shart-creat interating capacity Leg Up 20 100	·	l _u	Α	3200
Name Part	Rated uninterrupted current at 70 °C	l _u	Α	3200
See in IT alectrical power networks up to U = 440 V	Rated impulse withstand voltage	U_{imp}	V AC	12000
Note 100	Rated operational voltage	U _e	V AC	690
Name of incuration voltage Name	Use in IT electrical power networks up to U = 440 V	I _{IT}	kA	57.6
Switching capacity Included into-circular making capacity Included into-circular making capacity Included into circular making capacity Included into circular making capacity Included into circular making capacity (included into circular baseling capacity (i	Overvoltage category/pollution degree			III/3
Resid allow Conceil making capacity Imp Im	Rated insulation voltage	Ui	٧	1000
1	Switching capacity			
Up to 680 V 5060 Hz	Rated short-circuit making capacity	I _{cm}		
Rated short-time withstand current £0/80 Hz	up to 440 V 50/60 Hz	I _{cm}	kA	187
1	up to 690 V 50/60 Hz	I _{cm}	kA	166
ECEN 68047 operating sequence \(\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Rated short-time withstand current 50/60 Hz			
Rated short-circuit brashing capacity co	t = 1 s	I _{cw}	kA	85
IECEN 86947 operating sequence I ₆₀ 0-I-CO up to 240 V 50900 Hz	t = 3 s	I _{cw}	kA	66
up to 240 V 50/80 Hz up to 600 V 50/80 Hz up to 50/0 V 50/80 Hz up to 50/0 V 50/80 Hz up to 240 V 50/80 Hz up to 340 V 50/80 Hz up to 340 V 50/80 Hz lss lss lss lss lss 35 Closing delay via spring release Total opening delay via shunt release Total opening delay via non-delayed short-circuit release (up to complete arc quenching) Waximum operating frequency Withdrawable units (switch with cassette) Weight Withdrawable units (switch with cassette) Waximum operating frequency Wolf to 30 Apole 4-pole Cassette 3-pole 4-pole Cassette 3-pole 4-pole Black Mithdrawable units Black Mithdrawable units Black Mithdrawable units Nor Solventian separate switchger. The actual value of the temperature are despread as evitchger cale growless existing and any external wentedlation. Depending on the specific switchger. The actual value of the influenced by the shinks, which is delinenced by the shinks, which can be the componation of circuit-broakers, which is delinenced by the shinks, which is delinenced by the shinks, which can be the componation of the temperature are stest in the specific switchgear can provide a various uterial ambient temperature. The avoitaboard in stream albeint temperature.	Rated short-circuit breaking capacity I _{cn}	I _{cn}		
	IEC/EN 60947 operating sequence I _{cu} 0-t-CO			
up to 460 V 5080 Hz up to 860 V 5080 Hz up to 860 V 5080 Hz up to 240 V 5080 Hz up to 240 V 5080 Hz up to 440 V 5080 Hz up to 860 V 5080 Hz up to 86		Icu	kA	85
Part	•			
ECI/EN 80947 operating sequence I ₆₀ Ort-CO+CO				
up to 240 V 50/80 Hz up to 440 V 50/80 Hz up to 890 V 50/80 Hz lea		'cu	NA.	13
up to 440 V 5060 Hz 1cs KA 5 up to 690 V 5060 Hz 1cs KA 7 Derating times Closing delay via spring release Closing delay via spring release Total opening delay via subtratelease Total opening delay via undervoltage release Total opening delay via undervoltage release Total opening delay via undervoltage release Total opening delay on non-delayed short-circuit release (up to complete arc ms 45 Maximum opperating frequency Operations/h Maximum opperating frequency Whithdrawable units (switch with cassette) Weight Withdrawable units (switch with cassette) Weight 3-pole w kg 70 4-pole kg 86 4-pole kg 35 Cassette 3 pole kg 35 Total opening delay via non-delayed short-circuit release (up to complete arc ms show the				
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Closing delay via spring release Total opening delay via shunt release Total opening delay via undervoltage release Total opening delay via undervoltage release Total opening delay on non-delayed short-circuit release (up to complete arc quenching) Maximum operating frequency Heat dissipation at rated current In Withdrawable units (switch with cassette) Weight Withdrawable 3-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 5-pose bar 4-pole 4-pole 4-pole 5-pose bar 4-pole 4-pole 5-pose bar 4-pole 5-pose bar 4-pole 5-pose bar Withdrawable units Black Mithdrawable units Black Terminal capacities Copper bar Withdrawable units Black Parmissible ontinuous current for circuit-breaker, which is influenced by the ambient 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 specifics witchbear design, this may result in derating, which can then be compensated for by increasing the cross-sectional areas in my external ventilation. Depending on the specific switchbear design, this may result in derating, which can then be compensated for by increasing the cross-sectional areas in my external ventilations. Depending on the specific switchbear design, this may result in derating which can then be compensated for by increasing the cross-sectional areas in my external ventilation. Depending on the specific switchbear design, this may result in derating, which can then be compensated for by increasing the cross-sectional areas in my external ventilation. Depending on the specific switchbear design, this may result in deratine temperature rise tests in the specific switchbear design, this may result in deratine temperature via the specific switchbear design, this may result in deratine temperature. The switchboard's internal ambient	up to 690 V 50/60 Hz	I _{cs}	kA	75
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Heat dissipation at rated current In Withdrawable units (switch with cassette) Weight Withdrawable 3-pole 4-pole 4-pole 4-pole 4 pole 5 pole 4 pole 6 pole 6 pole 7 pole 6 pole 7 pole 6 pole 7 pole 7 pole 8 pole 9 po			ms	45
Withdrawable units (switch with cassette) Withdrawable 3-pole 4-pole 4-pole 4 pole 3 pole 4 pole 4 pole 5 pole 5 pole 5 pole 5 pole 6 pole 6 pole 7 pole 6 pole 7 pole 7 pole 7 pole 8 pole 9	Maximum operating frequency	Operations/h		60
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				at various internal ambient temperatures. The switchboard's internal ambient

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	560
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. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction 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 (corespondent 27 or or or to protect)		
Rated permanent current lu	Α	3200
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	85
Overload release current setting	Α	1600 - 3200
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	Α	6400 - 38400
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		Built-in device slide-in technique (withdrawable)
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		4
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