DATASHEET - IZMX40H3-A12W



Circuit-breaker, 3p, 1250A, withdrawable

Powering Business Worldwide

IZMX40H3-A12W Part no. Catalog No. 149823

Alternate Catalog RESC133W22-NMNN2MNDX

Delivery program

Don'to, 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			Withdrawable
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	1250
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	I _{cs}	kA	105
Overload release, min.	I _r	Α	625
Overload release, max.	I _r	Α	1250
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	$I_n = I_u$	Α	1250

A A A V AC V AC V AC KA	
A V AC V AC KA	1250 2 12000 3 690 57.6 111/3 1000 231 166 85 66 105 105 105 75 105 105 105 105 105 105
V AC V AC kA V kA kA kA kA kA kA kA kA	2 12000 57.6 111/3 1000 231 166 85 66 105 105 105 75 105 105 105 105 105 105 105 105 105 1
V AC kA V kA kA kA kA kA kA kA kA	690 57.6 III/3 1000 231 166 85 66 105 105 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 75 105 105 175
V kA kA kA kA kA kA kA kA	111/3 1000 231 166 85 66 105 105 105 75 105 105 105 105 105
V kA kA kA kA kA kA kA kA	111/3 1000 231 166 85 66 105 105 105 75 105 105 105 105 105
kA kA kA kA kA kA kA kA	1000 231 166 85 66 105 105 75 105 105 135
kA kA kA kA kA kA kA kA	231 166 85 66 105 105 105 75 105 105 105 105
kA kA kA kA kA kA kA	166 85 66 105 105 75 105 105 35
kA kA kA kA kA kA kA	166 85 66 105 105 75 105 105 35
kA kA kA kA kA kA kA	85 66 105 105 75 105 75
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kA kA kA kA	105 75 105 105 75 35
kA kA kA kA	75 105 105 75
kA kA kA	105 105 75
kA kA ms	105 75 35
kA kA ms	105 75 35
kA ms	75 35
ms	35
ms	22
ms	37
ms	45
ns/h	60
W	90
kg	70
kg	86
kg	27
kg	35
mm	1 x 60 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
	at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.
	kg

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation	In	Α	1250
Equipment heat dissipation, current-dependent	P _{vid}	W	90
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
EC/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. $\label{eq:specification}$
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])

Rated permanent current lu	Α	1070
	^	1250
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	Α	625 - 1250
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	Α	2500 - 15000
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		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