

Circuit-breaker, 3p, 1000 A, withdrawable

Powering Business Worldwide*

Part no. IZMX40H3-V10W
Article no. 149830
Catalog No. RESC103W52-NMNN2MNDX

Delivery program

- control / programm			
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Selective operation
Installation type			Withdrawable
			Cassette must be separately ordered.
			Main terminals must be separately ordered.
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
			suitable for zone selectivity optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
up to 440 V 50/60 Hz	I _{cu}	kA	105
up to 440 V 50/60 Hz	I _{cs}	kA	105
Overload release, min.	I _r	Α	500
Overload release, max.	I _r	Α	1000
Non-delayed I	$I_i = I_n x \dots$		2 - 12, OFF
Delayed X >	$I_{sd} = I_r x \dots$		2 - 10

Technical data

General

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	θ	°C	-40 - +70
Ambient temperature		°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 naths			

Main conducting paths

Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Rated uninterrupted current at 50 °C	Iu	Α	1000
Rated uninterrupted current at 60 °C	l _u	Α	1000

temperature, the degree of protection (IP), the mounting height, the partitions, 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				
Nation of centerion in your methods up to U − 441 V − 2	Rated uninterrupted current at 70 °C	I _u	Α	1000
Second Transcription Second Sec	Rated impulse withstand voltage	U _{imp}	V AC	12000
December	Rated operational voltage	U _e	V AC	690
Read insulation voltage 10	Use in IT electrical power networks up to U = 440 V	I _{IT}	kA	57.6
Read insulation voltage 10	Overvoltage category/pollution degree			III/3
Nated other Celevoth making capacity Raced other Celevoth making capacity up to 889 V 5988 Hz Raced other celevoth making capacity up to 889 V 5988 Hz Raced other celevoth making capacity (a) 1 = 1 s 1 = 3 s Raced other circuit breaking capacity (a) IECE S899 To operating sequence (a) 0 + CO up to 260 V 5980 Hz up to 640 V 5980 Hz		Ui	٧	
Revised short or increase making capacity Lam		- 1		
up to 600 V 5000 Hz Rated short-time withstand current 5000 Hz t = 1 s		I _{cm}		
Rated short-time withstand current \$0,000 Hz	up to 440 V 50/60 Hz	I _{cm}	kA	231
	up to 690 V 50/60 Hz	I _{cm}	kA	166
t = 1 s t = 3 s t = 3 s low	Rated short-time withstand current 50/60 Hz	0		
Rated short-circuit breaking capacity I _{CR} Rated short-circuit breaking capacity I _{CR} LECRE MOSH? operating sequence I _{CR} 0+CO up to 246V 5080B Hz up to 440V 5080B Hz lea up to 440V 5080B Hz lea up to 440V 5080B Hz lea LECRE MOSH? operating sequence I _{CR} 0+CO+CO up to 240V 5080B Hz lea up to 440V 5080B Hz lea lea Lea Lea Lea Lea Lea Lea		low	kA	85
Rated short-circuit brashing capacity I _{cn} ECER 00947 operating sequence I _{CD} 0+CO up to 240 V 50809 Hz I _{co} I _c				
ECICH 80967 operating sequence Cop D+CO			NA.	
up to 240 V 50,80 Hz up to 540 V 50,80 Hz up to 560 V 50,80 Hz up to 440 V 50,80 Hz		¹ cn		
up to 440 V 50/00 Hz up to 890 V 50/00 Hz up to 240 V 50/00 Hz les kA 105 Operating times Closing delay via shunt release Closing delay via shunt release Total opening delay via undervoltage Total opening delay via u				
up to 680 V 50/60 Hz IEC/EN 68947 operating sequence 1 _{cg} 0-t-C0-t-C0 up to 240 V 50/60 Hz up to 440 V 50/60 Hz up to 480 V 50/60 Hz lcs Lcs kA 105 Operating disey us sporting release Closing delay via spring release Total opening delay via shunt release Robering delay via shunt release Total opening delay via shunt release Total opening delay via shunt release Total opening delay via none-delayed short-circuit release (up to complete arc quenching) Maximum operating frequency Heat dissipation at rated current I _n Withdrawable units (switch with cassette) Weight Weight Weight Total opening delay via release S open	up to 240 V 50/60 Hz	I _{cu}	kA	105
EUE/EN 60947 operating sequence	up to 440 V 50/60 Hz	I _{cu}	kA	105
up to 240 V 50/800 Hz up to 440 V 50/800 Hz up to 480 V 50/800 Hz up to 690 V 50/800 Hz les kA 75 Operating times Closing dulay via spring release Total opening delay via undervoltage release ms 22 Total opening delay via undervoltage release ms 37 Total opening delay via undervoltage release ms 45 Maximum operating frequency Maximum operating frequency Operations/h Withdrawable units (switch with cassette) Weight Withdrawable 3-pole 4-pole 4-pole 4-pole 4-pole 5-apole 4-pole 5-apole 4-pole 6-apole 6-a	up to 690 V 50/60 Hz	I _{cu}	kA	75
up to 440 V 50/60 Hz up to 690 V 50/60 Hz ls kA 75 Operating times Closing delay via spring release Total opening delay via untervoltage release Total opening delay on non-delayed short-circuit release (up to complete arc quanching) Maximum operating frequency Met dissipation at rated current I _n Withdrawable units (switch with cassette) Weight Whidrawable 3-pole 4-pole Cassette 3-pole 4 pole Total opening delay on non-delayed short-circuit release (up to complete arc quanching) Wight Withdrawable units (switch with cassette) W 55 Wash Weight Withdrawable 3-pole 4-pole 4-pole 6-sesette 3-pole 4-pole 1-pole 4-pole 4-p	IEC/EN 60947 operating sequence I _{cs} O-t-CO-t-CO			
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Maximum operating frequency	Total opening delay on non-delayed short-circuit release (up to complete arc		ms	45
Heat dissipation at rated current In Withdrawable units (switch with cassette) Weight Withdrawable 3-pole kg 70 4-pole kg 86 Cassette 3 pole kg 27 4 pole kg 35 Terminal capacities Copper bar Withdrawable units Black 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 ever any evertiand the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection (IP), the mounting height, the partitions, and the protection area. Temperature is the specific switchgear can provide specific and detailed information.				
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tomportural o stocker as obtained only and obtained on 125 regular.				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.

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1000

Equipment heat dissipation, current-dependent	P _{vid}	W	55
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. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (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@ss8.1-27-37-04-09 [AJZ716010])

Rated voltage Rated short-circuit breaking capacity Icu at 400 V, 50 Hz Noerload release current setting A 500 - 1000 Adjustment range short-term delayed short-circuit release A 2000 - 10000 Adjustment range undelayed short-circuit release A 2000 - 12000 Integrated earth fault protection No Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact O 690 - 690 Rail 000 No Rail connection Built-in device slide-in technique (withdrawable) No No No No No No No No No No	
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DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact 0	
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	
Switched-off indicator available 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