

Circuit-breaker, 3p, 3200 A, withdrawable

Powering Business Worldwide[™]

IZMX40B3-V32W Part no. Article no. 149771 Catalog No. RES6323W52QNMNN2MNDX

Delivery program

Zonro., program			
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	3200
up to 440 V 50/60 Hz	I _{cu}	kA	66
up to 440 V 50/60 Hz	I _{cs}	kA	66
Overload release, min.	I _r	Α	1600
Overload release, max.	I _r	Α	3200
Non-delayed I	$I_i = I_n \times \dots$		2 - 12, OFF
Delayed >	$I_{sd} = I_r x \dots$		2 - 10

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°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	3200
Rated uninterrupted current at 50 °C	l _u	Α	3200
Rated uninterrupted current at 60 °C	Iu	Α	3200

Rated impulse withstand voltage Rated operational voltage Use in IT electrical power networks up to U = 440 V Overvoltage category/pollution degree Rated insulation voltage Switching capacity Rated short-circuit making capacity up to 440 V 50/60 Hz up to 690 V 50/60 Hz Rated short-time withstand current 50/60 Hz t = 1 s t = 3 s Rated short-circuit breaking capacity I _{cn} IEC/EN 60947 operating sequence I _{cu} 0-t-C0 up to 240 V 50/60 Hz up to 690 V 50/60 Hz up to 690 V 50/60 Hz up to 440 V 50/60 Hz up to 440 V 50/60 Hz up to 440 V 50/60 Hz up to 690 V 50/60 Hz up to 240 V 50/60 Hz up to 440 V 50/60 Hz up to 690 V 50/60 Hz up to 690 V 50/60 Hz up to 690 V 50/60 Hz	Iu Uimp Ue IIT Ui Icm Icm Icm Icm Icu Icu	A V AC V AC kA V kA kA kA	3200 12000 690 57.6 III/3 1000 145 145 66 53
Rated operational voltage Use in IT electrical power networks up to U = 440 V Overvoltage category/pollution degree Rated insulation voltage Switching capacity Rated short-circuit making capacity up to 440 V 50/60 Hz up to 690 V 50/60 Hz Rated short-time withstand current 50/60 Hz t = 1 s t = 3 s Rated short-circuit breaking capacity I _{cn} IEC/EN 60947 operating sequence I _{cu} 0-t-C0 up to 240 V 50/60 Hz up to 690 V 50/60 Hz up to 690 V 50/60 Hz IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0 up to 240 V 50/60 Hz up to 240 V 50/60 Hz IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0 up to 240 V 50/60 Hz	Ue IIT Ui Icm Icm Icm Icm Icw Icw Icu Icu	V AC kA V kA kA kA	690 57.6 III/3 1000 145 145
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Overvoltage category/pollution degree Rated insulation voltage Switching capacity Rated short-circuit making capacity up to 440 V 50/60 Hz up to 690 V 50/60 Hz Rated short-time withstand current 50/60 Hz t = 1 s t = 3 s Rated short-circuit breaking capacity I _{cn} IEC/EN 60947 operating sequence I _{cu} 0-t-C0 up to 240 V 50/60 Hz up to 690 V 50/60 Hz IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0 up to 240 V 50/60 Hz up to 440 V 50/60 Hz	Ui Icm Icm Icm Icw Icw Icu	V kA kA	111/3 1000 145 145
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Rated short-circuit breaking capacity I_{cn} $IEC/EN 60947 ext{ operating sequence } I_{cu} ext{ 0-t-CO}$ $up to 240 ext{ V 50/60 Hz}$ $up to 440 ext{ V 50/60 Hz}$ $up to 690 ext{ V 50/60 Hz}$ $IEC/EN 60947 ext{ operating sequence } I_{cs} ext{ 0-t-CO-t-CO}$ $up to 240 ext{ V 50/60 Hz}$ $up to 440 ext{ V 50/60 Hz}$	I _{cu}	NA.	35
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up to 690 V 50/60 Hz IEC/EN 60947 operating sequence I _{cs} 0-t-CO-t-CO up to 240 V 50/60 Hz up to 440 V 50/60 Hz		kA	66
IEC/EN 60947 operating sequence I _{cs} O-t-CO-t-CO up to 240 V 50/60 Hz up to 440 V 50/60 Hz	I _{cu}	kA	66
up to 240 V 50/60 Hz up to 440 V 50/60 Hz		kA	66
up to 440 V 50/60 Hz			
	I _{cs}	kA	66
up to 690 V 50/60 Hz	I _{cs}	kA	66
· · · · · · · · · · · · · · · · · · ·	I _{cs}	kA	66
Operating times	63		
Closing delay via spring release		ms	35
Total opening delay via shunt release		ms	22
Total opening delay via undervoltage release		ms	37
rotal spoining dolay via allocatoritago foresco			
Total opening delay on non-delayed short-circuit release (up to complete arc		ms	45
quenching)			
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I _n			
Withdrawable units (switch with cassette)		W	560
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		mm	2 v 90 v 10
Black		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 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
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 $\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}$			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 permanent current lu	А	3200
·		690 - 690
Rated voltage	V	
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	66
Overload release current setting	Α	1600 - 3200
Adjustment range short-term delayed short-circuit release	А	6400 - 32000
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
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