

Circuit-breaker, 3p, 4000 A, AF

Powering Business Worldwide[™]

IZMX40B3-V40W Part no. Article no. 149772

Catalog No. RES6403W52RNMNN2MNDX

Delivery programme

Delivery programme			
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
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	4000
Breaking capacity Icu = Ics to 440 V 50/60 Hz	I _{cu}	kA	66
Breaking capacity Ics to 440 V 50/60 Hz	I _{cs}	kA	66
Overload release, min.	I _r	Α	2000
Overload release, max.	Ir	Α	4000
Non-delayed I	$I_i = I_n x \dots$		2 - 12, OFF
Delayed Signature 1	$I_{sd} = I_r x \dots$		2 - 10
Notes			
Main terminals not included, need to be ordered separately.			
Note concerning the product			
Cassette needs to be ordered separately.			

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	8	°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	4000

		A	4000 3650
Rated uninterrupted current at 70 °C 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 Us Switching capacity Rated short-circuit making capacity up to 440 V 50/60 Hz up to 690 V 50/60 Hz t = 1 s t = 3 s Rated short-circuit breaking capacity Icn IEC/EN 60947 operating sequence Icu O-t-CO up to 240 V 50/60 Hz up to 690 V 50/60 Hz lcu UEC/EN 60947 operating sequence Ics O-t-CO-t-CO up to 240 V 50/60 Hz IEC/EN 60947 operating sequence Ics O-t-CO-t-CO up to 690 V 50/60 Hz up to 690 V 50/60 Hz IEC/EN 60947 operating sequence Ics O-t-CO-t-CO up to 240 V 50/60 Hz Icu IEC/EN 60947 operating sequence Ics O-t-CO-t-CO up to 240 V 50/60 Hz Ics Up to 690 V 50/60 Hz Ics Up to 690 V 50/60 Hz Ics Up to 690 V 50/60 Hz Up to 690 V 50/			3650
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Total opening delay on non-delayed short-circuit release (up to complete arc quenching) Maximum operating frequency Open	ı	ms	22
quenching) Maximum operating frequency Oper	ı	ms	37
quenching) Maximum operating frequency Oper			
	ı	ms	45
	erations/h		60
Heat dissipation at rated current I _n			
Withdrawable units (switch with cassette)	,	W	880
Weight			
Withdrawable			
3-pole	I	kg	70
4-pole		kg	86
Cassette			
3 pole		•	27
4 pole		kg	35
Terminal capacities Copper bar			
Copper par Withdrawable units			
Withdrawable units Black		mm	4 x 100 x 10
ыаск			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. With vertical universal connection.

Design verification a	s per IEC/EN 61439
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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4000
Equipment heat dissipation, current-dependent	P _{vid}	W	880
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 $\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}$			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 Rated voltage Rated voltage Rated short-circuit breaking capacity lcu at 400 V, 50 Hz Rated short-circuit breaking capacity lcu at 400 V, 50 Hz Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Algustment range undelayed short-circuit release Algu	protection (eci@ss8.1-2/-3/-04-09 [AJZ/16010])		
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz National release current setting Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Adjustment range undelayed short-circuit release Ad 8000 - 48000 Integrated earth fault protection Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No 6 6 6 6 6 6 6 6 6 6 6 6 6	Rated permanent current lu	Α	4000
Overload release current setting Adjustment range short-term delayed short-circuit release A 8000 - 40000 Adjustment range undelayed short-circuit release A 8000 - 40000 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 Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No Oetalease A 8000 - 40000 No Rail connection No Ro Rail connection No O O O O O O O O O O O O O O O O O O	Rated voltage	V	690 - 690
Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release A 8000 - 40000 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 Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release A 8000 - 40000 No B000 - 48000 No Rail connection Rail connection Ruil connection Ruil connection No No No O O O O O O O O O O O O O O O	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	66
Adjustment range undelayed short-circuit release Adjustment range undelayed short-circuit release Integrated earth fault protection Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release A 8000 - 48000 No Rail connection Built-in device slide-in technique (withdrawable) No O O O O V Y S W Y S W Y S No No No No No No No No No	Overload release current setting	Α	2000 - 4000
Integrated earth fault protection Type of electrical connection of main circuit Rail connection 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 Oumber of auxiliary contacts as normally open contact Oumber of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No	Adjustment range short-term delayed short-circuit release	Α	8000 - 40000
Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release Rail connection Built-in device slide-in technique (withdrawable) No No No No Vo No No No No No	Adjustment range undelayed short-circuit release	Α	8000 - 48000
Device construction Built-in device slide-in technique (withdrawable) No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact 2 Switched-off indicator available With under voltage release Built-in device slide-in technique (withdrawable) No No No No No No No No No N	Integrated earth fault protection		No
Suitable for DIN rail (top hat rail) mounting 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	Type of electrical connection of main circuit		Rail connection
DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact 2 Switched-off indicator available With under voltage release No	Device construction		Built-in device slide-in technique (withdrawable)
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	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No	DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as change-over contact 2 Switched-off indicator available Yes With under voltage release No	Number of auxiliary contacts as normally closed contact		0
Switched-off indicator available Yes With under voltage release No	Number of auxiliary contacts as normally open contact		0
With under voltage release No	Number of auxiliary contacts as change-over contact		2
	Switched-off indicator available		Yes
Number of poles 3	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