## DATASHEET - IZMX40B3-V20F-1



Circuit-breaker, 3 pole, 2000A, 66 kA, Selective operation, IEC, Fixed

IZMX40B3-V20F-1

183706

4398195



EL-Nummer (Norway)

Part no. Catalog No.

#### **Delivery 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			Fixed
			Main terminals must be separately ordered.
Construction size			IZMX40
Release system			Electronic release
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP31 with door seals, IP55 with protective cover
			suitable for zone selectivity optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	2000
up to 440 V 50/60 Hz	I <sub>cu</sub>	kA	66
up to 440 V 50/60 Hz	I <sub>cs</sub>	kA	66
Overload release, min.	l <sub>r</sub>	А	800
Overload release, max.	l <sub>r</sub>	А	2000
Non-delayed	l <sub>i</sub> = l <sub>n</sub> x		2 - 15, OFF
Delayed	I <sub>sd</sub> = I <sub>r</sub> x		1,5 - 10

## **Technical data**

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-20 - +70
Ambient temperature		°C	-20 - +70
Mounting position			
			30° 30°
Utilization category			В
Degree of Protection			IP31 with door seals, IP55 with protective cover
Direction of incoming supply			as required
Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	А	2000

Net derivation problemI A Back uniframpled current al 30°CI B<				
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Overolation outgoeImage: Image: I	ed operational voltage	U <sub>e</sub>	V AC	690
Net deturbation which quarter is a second of the second	in IT electrical power networks up to	U	V	440
Switching capacityisRate direct circuit making capacity ()LongMaMaup to 80/ 9500 hitLongMaMaRate direct time withstand current 5000 Hit	rvoltage category/pollution degree			III/3
Rited outside space byleaVert<VertVertVert<	ed insulation voltage	Ui	V	1000
up to 400 VS000 HzIcanKA15Rated S00 VS000 HzIcanKA16Rated S00 VS000 HzIcan60Ican III Solution Convertigation Convertiga	tching capacity			
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Reted short-time withstand current SQ60 Hz     Ive     Kat       It-1 5     Ive     Ive	ıp to 440 V 50/60 Hz	I <sub>cm</sub>	kA	145
t=1 slowka66Rated in t-circuit breaking sequence log-0-100ka56IECEND 00047 operating sequence log-0-100ka66up to 200 V S000 H:kau66up to 800 V S000 H:kau66Up to	ıp to 690 V 50/60 Hz	I <sub>cm</sub>	kA	145
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IECCEN 00547 operating sequence 1 <sub>40</sub> 0-1-C0       Icu       KA       6         up to 240 V 5000 Hz       Icu       KA       6         up to 680 V 5000 Hz       Icu       KA       6         Up to 680 V 5000 Hz       Icu       KA       6         up to 680 V 5000 Hz       Icu       KA       6         up to 240 V 5000 Hz       Icu       KA       6         up to 240 V 5000 Hz       Icu       KA       6         up to 240 V 5000 Hz       Icu       KA       6         up to 240 V 5000 Hz       Icu       KA       6         Up to 560 V 5000 Hz       Icu       KA       6         Operating interes       Icu       Rm       5         Total opening delay via shurt release       Icu       Rm       5         Total opening delay via shurt release (up to complete arr       Rm       5         Itespan, mechanical       Svirtching       S       5         Itespan, mechanical with maintenance       Svirtching       S       6         Itespan, electrical with maintenance       Svirtching       Svirtching       S         Itespan, electrical with maintenance       Svirtching       S       S         Total opening delay via shurt relea	= 3 s	I <sub>cw</sub>	kA	53
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up to 880 V50/60 Hz         Fgs         AA         66           Operating times         Image: Amounting         S         S           Closing delay via spring release         Image: Amounting         S         S           Total opening delay via sund release         Image: Amounting         S         S           Total opening delay on non-delayed short-circuit release (up to complete arc quenching)         Image: Amounting         S         S           Lifespan, mechanical         Switching quercies (WK)         Image: Amounting         S         S           Lifespan, mechanical with maintenance         Switching quercies (WK)         S         S         S           Lifespan, electrical         Switching quercies (WK)         S         S         S         S           Lifespan, electrical with maintenance         Switching quercies (WK)         S         S         S         S           Maximum operating frequency         Operationsh         C         S         S         S         S           Viels displation at rated current In         Switching quercies (WK)         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S				
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Closing delay via spring release       5         Total opening delay via shunt release       mm       35         Total opening delay via undervoltage release       mm       40         Total opening delay on non-delayed short-circuit release (up to complete arc quenching)       mm       52         Lifespan, mechanical       Switching cycles (N)       0000         Lifespan, mechanical with maintenance       Switching cycles (N)       0000         Lifespan, electrical       Switching cycles (N)       0000         Maximum operating frequency       Operations/h       0000         Maximum operating frequency       Operations/h       0000         Fixed mounting       W       20         Weight       Spolo       Spolo       Spolo         Copper bar       Kg       3         Fixed mounting       Spolo		I <sub>CS</sub>	кА	60
Total opening delay via shunt release       35         Total opening delay via undervoltage release       ms       40         Total opening delay via undervoltage release       ms       52         Lifespan       so       52         Lifespan, mechanical       gvides (DN) OFF       0000         Lifespan, mechanical with maintenance       gvides (DN) OFF       0000         Lifespan, electrical       gvides (DN) OFF       0000         Lifespan, electrical       gvides (DN) OFF       gvides (DN) OFF       0000         Lifespan, electrical       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF         Lifespan, electrical with maintenance       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF         Maximum operating frequency       Operationsh       go       gvides (DN) OFF       gvides (DN) OFF         Next of the operating frequency       Verestore       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF         Next of the operating frequency       Verestore       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF         Next of the operating frequency       Verestore       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF       gvides (DN) OFF         State of the oper				DE .
Total opening delay via undervoltage release       ms       4         Total opening delay on non-delayed short-circuit release (up to complete ar quenching)       ms       52         Lifespan       S       5         Lifespan, mechanical       S       5         Lifespan, mechanical with maintenance       Switching cycles (DN) CFF       0000         Lifespan, electrical       Switching Cycles (DN) CFF       0000         Maximum operating frequency       Operations/h       0000         Maximum operating frequency       Operations/h       0000         Weight       Total opening (Tequency In the sectrical with maintenance)       Switching Cycles (DN) CFF         Kied mounting       V       V       20         Weight       State Total Capacities       State Total Capacities         Terminal capacities       State Total Capacities       State Total Capacities         Exed mounting       State Total Capacities       State Total Capacities				
Total opening delay on non-delayed short-circuit release (up to complete arc quenching)       ms       52         Lifespan       so       50         Lifespan, mechanical       Svitching voles (ON VFF)       full 0000         Lifespan, mechanical with maintenance       Svitching voles (ON VFF)       full 0000         Lifespan, electrical       Switching voles (ON VFF)       full 0000         Lifespan, electrical with maintenance       Switching voles (ON VFF)       full 0000         Maximum operating frequency       Switching voles (ON VFF)       full 0000         Maximum operating frequency       Operationsh       full 0000         Head dissipation at rated current In       Operationsh       full 0000         Tixed mounting       Voles (ON V       full 0000         Symbol       Voles (ON V       full 0000         Fixed mounting       Voles (ON V       full 0000         Terminal capacities       Voles       full 0000         Terminal capacities       Voles       full 0000         Fixed mounting       Full 0100       full 01000         Symbol       Full 01000       full 01000         Fixed mounting       Voles       full 01000         Symbol       full 01000       full 01000         Symbol       f				
quenching       Image: Provide the second seco	otal opening delay via undervoltage release		1115	40
Lifespan, mechanical       Switching cycles (0N) OFF, 0N       0000         Lifespan, mechanical with maintenance       Switching cycles (0N) OFF, 0N       20000.         Lifespan, electrical       Switching cycles (0N) OFF, 0N       Switching cycles (0N) OFF, 0N         Lifespan, electrical with maintenance       Switching cycles (0N) OFF, 0N       Switching cycles (0N) OFF, 0N         Lifespan, electrical with maintenance       Switching cycles (0N) OFF, 0N       Switching cycles (0N) OFF, 0N         Maximum operating frequency       Operations/n       60         Heat dissipation at rated current In       V       20         Fixed mounting       V       20         Veight       Image: State	ōtal opening delay on non-delayed short-circuit release (up to complete arc quenching)		ms	52
cycles (0N/ OFF       G       G         Lifespan, mechanical with maintenance       Switching cycles (0N/ OFF)       Masono       Sourching cycles (0N/ cycles (0N/ Cycl	span		S	
Lifespan, electrical       cycles (0N/ OFF)       8000         Lifespan, electrical with maintenance       Switching cycles (0N/ OFF)       food         Maximum operating frequency       Operations/h OPErions/h       60         Heat dissipation at rated current I <sub>n</sub> 60         Fixed mounting       V       20         Veight       Fixed mounting       Image: Second		cycles (ON/		10000
Lifespan, electrical with maintenance       Switching cycles (DN/ OFF)       16000.         Maximum operating frequency       Operations/h       60         Heat dissipation at rated current In       Operations/h       60         Fixed mounting       VW       220         Veight         Terminal capacities         Copper bar       Image: Subscript of the su		cycles (ON/		20000.
Maximum operating frequency       Operations/h       60         Heat dissipation at rated current In       Maximum operations/h       60         Fixed mounting       W       220         Weight       Fixed mounting       Image: Second		cycles (ON/		8000
Heat dissipation at rated current In     Image: Constraint of the second s		cycles (ON/		16000.
Fixed mounting W   Pixed mounting I   S-pole Kg   3-pole Kg   Terminal capacities   Copper bar   Fixed mounting	imum operating frequency	Operations/h		60
Weight       Fixed mounting     Image: Comparison of the second of	t dissipation at rated current I <sub>n</sub>			
Fixed mounting     Image: Composition of the sector of the s	ixed mounting		W	220
3-pole     kg     43       Terminal capacities       Copper bar     Fixed mounting     Image: Colspan="2">Image: Colspan="2" Image: Colspan="" Image: C				
Terminal capacities       Copper bar       Fixed mounting	d mounting			
Copper bar     Image: Copper bar       Fixed mounting     Image: Copper bar			kg	43
Fixed mounting	-			
	-		mm	2 ~ 20 ~ 10
	Black		mm	2 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 a temperature, the degree of protection (IP), the mounting height, the part any external ventilation. Depending on the specific switchgear design, t				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.

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	l <sub>n</sub>	Α	2000
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	220
Operating ambient temperature min.		°C	-20
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 switchgear must be observed.
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])	

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Rated permanent current lu	А	2000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	66
Overload release current setting	А	800 - 2000
Adjustment range short-term delayed short-circuit release	А	1200 - 20000
Adjustment range undelayed short-circuit release	А	4000 - 30000
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		Built-in device fixed built-in technique
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)	IP31

## Dimensions

