

Circuit-breaker, 3p, 2500 A, fixed

Powering Business Worldwide[™]

Part no. IZMX40N3-V25F Article no. 149706

Catalog No. RES8253B52NNMNN2MN1X

Delivery program

/ F - 3 -			
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			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	$\boldsymbol{I}_n = \boldsymbol{I}_u$	Α	2500
up to 440 V 50/60 Hz	I _{cu}	kA	85
up to 440 V 50/60 Hz	I _{cs}	kA	85
Overload release, min.	I _r	Α	1250
Overload release, max.	l _r	Α	2500
Non-delayed	$I_i = I_n x \dots$		2 - 12, OFF
I>			
Delayed	$I_{sd} = I_r x \dots$		2 - 10
⊠/≥			

Technical data

Rated uninterrupted current at 60 °C

Rated uninterrupted current at 70 °C

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 paths			
Rated current = rated uninterrupted current	$\boldsymbol{I}_n = \boldsymbol{I}_u$	Α	2500
Rated uninterrupted current at 50 °C	I _u	Α	2500

 ${\rm I}_{\rm u}$

Α

2500

2500

Read operational voltage 10				
Part Maria	,	U _{imp}	V AC	12000
Descripting category/genution degree	Rated operational voltage	U _e	V AC	690
Note	Use in IT electrical power networks up to U = 440 V	I _{IT}	kA	57.6
Raded short-circum making capacity Iran Van Va	Overvoltage category/pollution degree			III/3
Reted short-circuit making capacity up to 400 V 500 bit 1 to 1 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 2 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 2 s 1 s 1 to 3 s 1 Rated short-circuit breaking capacity 1 to 1 s 1 to 2 s 1 s 1 to 3 s 1 to 2 s 1 s 1 to 3 s 1 to 2 s 1 s 1 to 3 s 1 to 3 s 1 s 1 to 4 s 1 to 3 s 1 to 4	Rated insulation voltage	Ui	V	1000
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up to 890 V 5000 Hz Rated shart-time withstand current 5000 Hz I = 1 s	Rated short-circuit making capacity	I _{cm}		
Rated short-sine withstand current 5060 Hz	up to 440 V 50/60 Hz	I _{cm}	kA	187
t = 1 s	up to 690 V 50/60 Hz	I _{cm}	kA	166
tie 3 s cw kA 66 Rated short-circuit breaking capacity I _{cn} I _{cn}	Rated short-time withstand current 50/60 Hz			
Rated short-circuit breaking capacity I _{co} EC/EN 80947 operating sequence I _{co} 0+CO up to 240 V 5000 Hz up to 440 V 5000 Hz up to 440 V 5000 Hz Lou Lou Lou Lou Lou Lou up to 8094 V 5000 Hz Lou Lou Lou Lou Lou up to 440 V 5000 Hz up to 440 V 5000 Hz Lou Lou Lou Lou up to 440 V 5000 Hz up to 440 V 5000 Hz Lou Lou Lou up to 440 V 5000 Hz Lou Lou Lou up to 840 V 5000 Hz Lou	t = 1 s	I _{cw}	kA	85
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up to 240 V 50/80 Hz up to 440 V 50/80 Hz up to 580 V 50/80 Hz up to 580 V 50/80 Hz leCiEN 50/80 Fg to 96 V 50/80 Hz up to 440 V 50/80 Hz les kA 85 up to 680 V 50/80 Hz up to 680 V 50/80 Hz les kA 75 Operating times Closing delay via spring release Total opening delay via sundervoltage release Total opening delay via undervoltage release Total opening delay via undervoltage release Total opening delay via undervoltage release ms 37 Total opening delay via undervoltage release ms 37 Total opening delay via undervoltage release ms 37 Total opening delay via undervoltage release ms 45 Querations,h Maximum operating frequency Operations,h Exact Maximum operating frequency Operations,h Biack mm 2x 80 x 10 These are values used in separate sovichgear. The actual values will depend the temperature, the degree of proxection (IP), the mounting heaping, the partitions, are valued used in separate sovichgear. The actual values will depend the temperature, the degree of proxection (IP), the mounting height, the partitions, are valued used in expertate release for the partitions, are valued used in expertate restricts in the specific sovichboards in termal ambient enternal maintent enternal ambient enternal ambient enternal ambient enternal maintent enternal ambient enternal enter	Rated short-circuit breaking capacity I _{cn}	I _{cn}		
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·				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			
•			0500
Rated operational current for specified heat dissipation	In	А	2500
Equipment heat dissipation, current-dependent	P_{vid}	W	235
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	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. Eator provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear observed.
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])

protestion (see essent 2, et et es protestion)		
Rated permanent current lu	Α	2500
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	85
Overload release current setting	Α	1250 - 2500
Adjustment range short-term delayed short-circuit release	А	5000 - 25000
Adjustment range undelayed short-circuit release	Α	5000 - 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
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