

Circuit-breaker, 3 pole, 1000 A, 105 kA, P measurement, IEC, Fixed

Powering Business Worldwide*

Part no. IZMX40H3-P10F-1 Article no. 183635

Delivery program

Delivery program			
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			P measurement
Installation type			Fixed
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 suitable for communication with integrated system monitor with integrated test possibility With graphic LCD display 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	400
Overload release, max.	I _r	Α	1000
Non-delayed I	$I_i = I_n x \dots$		2 - 15, OFF
Delayed >	$I_{sd} = I_r x \dots$		1,5 - 10

Technical data

i echnicai data			
General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-20 - +70
Operating (open)		°C	-20 - +70
Mounting position			30° 30°
			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	$I_n = I_u$	Α	1000
Rated uninterrupted current at 50 °C	I _u	Α	1000

Rated uninterrupted current at 60 °C

1000

Rated uninterrupted current at 70 °C	l _u	Α	1000
Rated impulse withstand voltage	U _{imp}	V AC	12000
Rated operational voltage	U _e	V AC	690
Use in IT electrical power networks up to U = 440 V	I _{IT}	kA	0
Use in IT electrical power networks up to U = 690 V	I _{IT}	kA	0
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	٧	1000
Switching capacity	,		
Rated short-circuit making capacity	I _{cm}		
up to 440 V 50/60 Hz	I _{cm}	kA	231
up to 690 V 50/60 Hz	I _{cm}	kA	166
Rated short-time withstand current 50/60 Hz			
t = 1 s	I _{cw}	kA	85
t = 3 s	I _{cw}	kA	66
Rated short-circuit breaking capacity I _{cn}	I _{cn}		
IEC/EN 60947 operating sequence I _{cu} O-t-CO			
up to 240 V 50/60 Hz	I _{cu}	kA	105
up to 440 V 50/60 Hz	I _{cu}	kA	105
up to 690 V 50/60 Hz	I _{cu}	kA	75
IEC/EN 60947 operating sequence I _{cs} O-t-CO-t-CO	cu		
up to 240 V 50/60 Hz	I _{cs}	kA	105
up to 440 V 50/60 Hz		kA	105
up to 690 V 50/60 Hz	I _{cs}		
	I _{cs}	kA	75
Operating times			OE.
Closing delay via spring release Total opening delay via shunt release		ms	35 35
Total opening delay via shufit release		ms ms	40
rotal opening acity via anacivotage release		IIIo	
Total opening delay on non-delayed short-circuit release (up to complete arc		ms	52
quenching)			
Lifespan		S	
Lifespan, mechanical	Switching cycles (ON/		12500
	OFF)		
Lifespan, mechanical with maintenance	Switching cycles (ON/		25000.
	OFF)		
Lifespan, electrical	Switching cycles (ON/		10000
	OFF)		
Lifespan, electrical with maintenance	Switching cycles (ON/		20000.
	OFF)		
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I_n			
Fixed mounting		W	40
Weight			
Fixed mounting		l	40
3-pole Terminal capacities		kg	43
Copper bar			
Fixed mounting			
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 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.
			result in derating, which can then be compensated for by increasing the cross

	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 regulatior	1.
Notes	External IZMX-DTP-PTM-1 voltage measuring module required (1 module is suitable for 16 circuit-breakers)	

Design verification as per IEC/EN 61439

provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear mobserved. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear mobserved.	·			
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	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])

protection (ecl@ss8.1-27-37-04-09 [AJZ716010])	ii tooiiiiology / oli ou	toreaker (LV \ 1 kV// official breaker for power datasormer, generator and system
Rated permanent current lu	А	1000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	А	500 - 1000
Adjustment range short-term delayed short-circuit release	А	2000 - 10000
Adjustment range undelayed short-circuit release	А	2000 - 12000
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)	IP31

Dimensions

