





Circuit-breaker, 3 pole, 630A, 50 kA, P measurement, IEC, Fixed

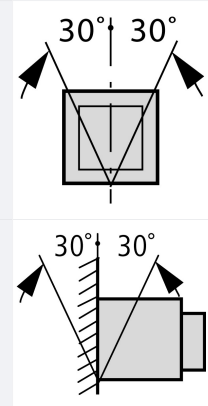
Part no. IZMX16N3-P06F-1
Catalog No. 183361
EL-Nummer (Norway) 4398035

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			IZMX16
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	$I_n = I_u$	A	630
up to 440 V 50/60 Hz	I_{cu}	kA	50
up to 440 V 50/60 Hz	I_{cs}	kA	50
Overload release, min.	I_r	A	252
Overload release, max.	I_r	A	630
Non-delayed	$I_i = I_n \times \dots$		2 - 15, OFF
			
Delayed	$I_{sd} = I_r \times \dots$		1,5 - 10
			

Technical data

General

Standards			IEC/EN 60947
Ambient temperature			
Storage	θ	°C	-20 - +70
Ambient temperature		°C	-20 - +70
Mounting position			
Utilization category			B
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	$I_n = I_u$	A	630
Rated uninterrupted current at 50 °C	I_u	A	630
Rated uninterrupted current at 60 °C	I_u	A	630
Rated uninterrupted current at 70 °C	I_u	A	630
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	V	440
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V	1000

Switching capacity

Rated short-circuit making capacity	I_{cm}		
up to 440 V 50/60 Hz	I_{cm}	kA	105
up to 690 V 50/60 Hz	I_{cm}	kA	88
Rated short-time withstand current 50/60 Hz			
t = 1 s	I_{cw}	kA	42
Rated short-circuit breaking capacity I_{cn}	I_{cn}		
IEC/EN 60947 operating sequence I_{cu} 0-t-CO			
up to 240 V 50/60 Hz	I_{cu}	kA	50
up to 440 V 50/60 Hz	I_{cu}	kA	50
up to 690 V 50/60 Hz	I_{cu}	kA	42
IEC/EN 60947 operating sequence I_{cs} 0-t-CO-t-CO			
up to 240 V 50/60 Hz	I_{cs}	kA	50
up to 440 V 50/60 Hz	I_{cs}	kA	50
up to 690 V 50/60 Hz	I_{cs}	kA	42
Operating times			
Closing delay via spring release		ms	30
Total opening delay via shunt release		ms	30
Total opening delay via undervoltage release		ms	50
Total opening delay on non-delayed short-circuit release (up to complete arc quenching)		ms	27
Lifespan		S	
Lifespan, mechanical	Switching cycles (ON/OFF)		12500
Lifespan, mechanical with maintenance	Switching cycles (ON/OFF)		25000.
Lifespan, electrical	Switching cycles (ON/OFF)		10000
Lifespan, electrical with maintenance	Switching cycles (ON/OFF)		20000.
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I_n			
Fixed mounting		W	36

Weight

Fixed mounting			
3-pole		kg	19

Terminal capacities

Copper bar			
Fixed mounting			
Black		mm	2 x 5 x 50
			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.
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

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	630
Equipment heat dissipation, current-dependent	P_{vid}	W	36
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			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
10.11 Short-circuit rating			
10.12 Electromagnetic compatibility			
10.13 Mechanical function			

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])			
Rated permanent current I_u		A	630
Rated voltage		V	690 - 690
Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz		kA	50
Overload release current setting		A	252 - 630
Adjustment range short-term delayed short-circuit release		A	378 - 6300
Adjustment range undelayed short-circuit release		A	1260 - 9450
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

