DATASHEET - IZMX16H3-V06W-1



Circuit-breaker, 3 pole, 630A, 66 kA, Selective operation, IEC, Withdrawable



Part no. IZMX16H3-V06W-1

Catalog No. 183351

EL-Nummer 4398025 (Norway)

Delivery program

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			Withdrawable
			Cassette must be separately ordered.
			Main terminals must be separately ordered.
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 optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	630
up to 440 V 50/60 Hz	I _{cu}	kA	66
up to 440 V 50/60 Hz	I _{cs}	kA	50
Overload release, min.	I _r	Α	252
Overload release, max.	I _r	Α	630
Non-delayed	$I_i = I_n x \dots$		2 - 15, OFF
Delayed X >	$I_{sd} = I_r x \dots$		1,5 - 10

Technical data

General

Ambient temperature Storage Ambient temperature **C	General			
Storage Ambient temperature Mounting position Storage **C	Standards			IEC/EN 60947
Ambient temperature **C	Ambient temperature			
Mounting position 30° 30° 30° 30° 30° 30° 40° 40° 40° 40° 40° 40° 40°	Storage	9	°C	-20 - +70
Utilization category Degree of Protection B IP31 with door seals, IP55 with protective cover	Ambient temperature		°C	-20 - +70
Utilization category B Degree of Protection B IP31 with door seals, IP55 with protective cover	Mounting position			30° 30°
Degree of Protection IP31 with door seals, IP55 with protective cover				30° 30°
	Utilization category			В
Direction of incoming supply as required	Degree of Protection			IP31 with door seals, IP55 with protective cover
	Direction of incoming supply			as required

Main conducting paths

Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	630
Rated uninterrupted current at 50 °C	I _u	Α	630
Rated uninterrupted current at 60 °C	I _u	Α	630
Rated uninterrupted current at 70 °C	I _u	Α	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	Ui	V	1000
Switching capacity			
Rated short-circuit making capacity	I _{cm}		
up to 440 V 50/60 Hz	I _{cm}	kA	145
up to 690 V 50/60 Hz	I _{cm}	kA	88
Rated short-time withstand current 50/60 Hz			
t=1s	I _{cw}	kA	42
Rated short-circuit breaking capacity I _{cn}	I _{cn}		
IEC/EN 60947 operating sequence I _{cu} 0-t-C0			
up to 240 V 50/60 Hz	I _{cu}	kA	85
up to 440 V 50/60 Hz		kA	66
,	I _{cu}		
up to 690 V 50/60 Hz	I _{cu}	kA	42
IEC/EN 60947 operating sequence I _{cs} O-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			
Withdrawable units (switch with cassette)		W	50
Weight			
Withdrawable			
3-pole		kg	28
Cassette			
3 pole		kg	18
Terminal capacities			
Copper bar			
Withdrawable units			
Black		mm	2x5x50
			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.
Parmissible continuous current for circuit-breakers operating in switchhoards

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

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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 (eci@ss10.0.1-27-37-04-09 [AJZ716013])

protection (eci@8810.0.1-27-37-04-03 [A32710013])		
Rated permanent current lu	Α	630
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	65
Overload release current setting	Α	315 - 630
Adjustment range short-term delayed short-circuit release	Α	1260 - 6300
Adjustment range undelayed short-circuit release	Α	1260 - 7560
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		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	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

