

Circuit-breaker, 3 pole, 800 A, 66 kA, Selective operation, IEC, Withdrawable

Powering Business Worldwide

Part no. IZMX16H3-V08W-1 Article no. 183352

Delivery program

Product range Product range Current Range Protective function Installation type Construction size Release system Standard/Approval Degree of Protection Rated current = rated uninterrupted current up to 440 V 50/60 Hz ls l			Dontory program
Current Range Protective function Installation type Withdrawable Cassette must be separately ordered. Main terminals must be separately ordered. Main terminals must be separately ordered. Main terminals must be separately ordered. Electronic release Standard/Approval Number of poles Degree of Protection Degree of Protection In = Iu In = Iu A 800 Verload release, min. Overload release, max. It o 440 V 50/60 Hz Verload release, max. It o 4800 Verload release, max. Vindamost operation Withdrawable Cassette must be separately ordered. Main terminals must be separately ordered. Electronic release IEC 3 pole IPS1 with door seals, IP55 with protective cover suitable for zone selectivity optionally fittable by user with comprehensive accessories A 800 Verload release, max.	Air circuit-breakers/switch-disconnectors		Product range
Protective function Installation type Withdrawable Cassette must be separately ordered. Main terminals must be separately ordered. Construction size Release system Standard/Approval Number of poles Degree of Protection In = I _u Value of valu	Open circuit-breakers		Product range
Installation type Withdrawable Cassette must be separately ordered. Main terminals must be separately ordered. Main terminals must be separately ordered. IZMX16 Release system Standard/Approval Standard/Approval Number of poles Degree of Protection In = Iu A 800 up to 440 V 50/60 Hz up to 440 V 50/60 Hz up to 440 V 50/60 Hz lcs kA 50 Overload release, min. Ir A 800 Withdrawable Cassette must be separately ordered. Main terminals must be separately ordered. IZMX16 Electronic release Electronic release IEC 3 pole IP31 with door seals, IP55 with protective cover suitable for zone selectivity optionally fittable by user with comprehensive accessories A 800 Overload release, min. Ir A 800	Up to 4000 A		Current Range
Cassette must be separately ordered. Main terminals must be separately ordered. Main terminals must be separately ordered. IZMX16 Release system Standard/Approval Rumber of poles 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 Ip 440 V 50/60 Hz Ip 540 V 50/60 Hz Ip 640 V 50/60 Hz Ip	Selective operation		Protective function
Construction size Construction size Release system Standard/Approval Number of poles Degree of Protection In = Iu A 800 Up to 440 V 50/60 Hz up to 440 V 50/60 Hz up to 440 V 50/60 Hz verload release, min. Nain terminals must be separately ordered. IZMX16 Electronic release IEC 3 pole IP31 with door seals, IP55 with protective cover suitable for zone selectivity optionally fittable by user with comprehensive accessories A 800 Verload release, min. Ir A 320 Overload release, max.	Withdrawable		Installation type
Construction size Release system Standard/Approval Number of poles Degree of Protection Rated current = rated uninterrupted current up to 440 V 50/60 Hz up to 440 V 50/60 Hz verload release, min. Construction size IEC 3 pole IP31 with door seals, IP55 with protective cover suitable for zone selectivity optionally fittable by user with comprehensive accessories RA 800 Verload release, min. Ir A 320 Verload release, max.	Cassette must be separately ordered.		
Release system Standard/Approval Number of poles Degree of Protection Rated current = rated uninterrupted current up to 440 V 50/60 Hz up to 440 V 50/60 Hz Uverload release, min. Release system Electronic release IEC 3 pole IP31 with door seals, IP55 with protective cover suitable for zone selectivity optionally fittable by user with comprehensive accessories Rated current = rated uninterrupted current In = Iu	Main terminals must be separately ordered.		
Standard/Approval Number of poles 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 Ip = Iu	IZMX16		Construction size
Number of poles 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 In = Iu A 800 up to 440 V 50/60 Hz Icu kA 66 up to 440 V 50/60 Hz Ics kA 50 Overload release, min. Ir A 320 Overload release, max. Ir A 800	Electronic release		Release system
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 Ip = Iu	IEC		Standard/Approval
suitable for zone selectivity optionally fittable by user with comprehensive accessories Rated current = rated uninterrupted current In = Iu A 800 up to 440 V 50/60 Hz Icu kA 66 up to 440 V 50/60 Hz Ics kA 50 Overload release, min. Ir A 320 Overload release, max. Ir A 800	3 pole		Number of poles
Rated current = rated uninterrupted current I _n = I _u A 800 up to 440 V 50/60 Hz l _{cu} kA 66 up to 440 V 50/60 Hz l _{cs} kA 50 Overload release, min. I _r A 800 verload release, max. I _r A 800	IP31 with door seals, IP55 with protective cover		Degree of Protection
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 A 320 Overload release, max. I _r A 800			
up to 440 V 50/60 Hz	$I_n = I_u$ A 800	$I_n = I_u$	Rated current = rated uninterrupted current
Overload release, min. Ir A 320 Overload release, max. Ir A 800	I _{cu} kA 66	I _{cu}	up to 440 V 50/60 Hz
Overload release, max. I _r A 800	I _{cs} kA 50	I _{cs}	up to 440 V 50/60 Hz
	I _r A 320	Ir	Overload release, min.
Non-delayed $I_i = I_n \times \dots $ 2 - 15, OFF	I _r A 800	Ir	Overload release, max.
<u> </u>	I _i = I _n x 2 - 15, OFF	$I_i = I_n x \dots$	Non-delayed I
Delayed $I_{sd} = I_r x \dots$ 1,5 - 10	$I_{sd} = I_r x \dots$ 1,5 - 10	$I_{sd} = I_r x \dots$	Delayed X >

Technical data

General

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-20 - +70
Ambient temperature		°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 noths			

Main conducting paths

Rated current = rated uninterrupted current	$I_n = I_u$	Α	800
Rated uninterrupted current at 50 °C	Iu	Α	800

Rated uninterrupted current at 60 °C	l _u	Α	800
Rated uninterrupted current at 70 °C	I _u	Α	800
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	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	I _{cu}	kA	66
up to 690 V 50/60 Hz	I _{cu}	kA	42
IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0			
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	'CS	KA.	72
Closing delay via spring release		ma	30
Total opening delay via shunt release		ms	30
Total opening delay via undervoltage release		ms	50
total opening delay via undervoltage release		ms	30
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	80
Weight			
Withdrawable			
3-pole		kg	28
Cassette			
3 pole		kg	18
Terminal capacities			
Copper bar			
Withdrawable units			0.5.50
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 provi	de
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

200:g.: 10::::0a:::0 po:::20,2::10:::00			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	800
Equipment heat dissipation, current-dependent	P _{vid}	W	80
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 switch gear must be observed. $\label{eq:constraint}$
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 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])

Rated permanent current lu Rated voltage V 690 - 690 Rated short-circuit breaking capacity lcu at 400 V, 50 Hz kA 65 Overload release current setting A 400 - 800 Adjustment range short-term delayed short-circuit release A 1600 - 8000 Adjustment range undelayed short-circuit release A 1600 - 9600 Integrated earth fault protection Type of electrical connection of main circuit Rail connection
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz kA 65 Overload release current setting A 400 - 800 Adjustment range short-term delayed short-circuit release A 1600 - 8000 Adjustment range undelayed short-circuit release A 1600 - 9600 Integrated earth fault protection No
Overload release current setting A 400 - 800 Adjustment range short-term delayed short-circuit release A 1600 - 8000 Adjustment range undelayed short-circuit release A 1600 - 9600 Integrated earth fault protection No
Adjustment range short-term delayed short-circuit release A 1600 - 8000 Adjustment range undelayed short-circuit release A 1600 - 9600 Integrated earth fault protection No
Adjustment range undelayed short-circuit release A 1600 - 9600 Integrated earth fault protection No
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
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

