DATASHEET - IZMX40N4-V10F-1

Circuit-breaker, 4 pole, 1000A, 85 kA, Selective operation, IEC, Fixed



Part no.	IZI
EL Number	183 439
(Norway)	

IZMX40N4-V10F-1 183903 4398313

General specifications

values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mount height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated	General specifications	
EAN Image: Constraint of the second of t	Product name	Eaton Moeller series IZMX/INX circuit-breaker
Product lengt/Upeph Image: Constraint of the second seco	Part no.	IZMX40N4-V10F-1
Product height 537 millingtre Product weight 521 millingtre Product weight 521 millingtre Compliances 162 (FV 0007) [10] Product Tradename 12 (XX/INX Product Tradename 100 (A Product Tradename	EAN	4015081790470
Productivation S21 millimetre Productivation S6 kilogram Compliances IECPN 0987 Productivation IECNN0087 Release system IECNN0087 Petros IECNN0087 Special Features IECNN0087 Special Features </td <td>Product Length/Depth</td> <td>584 millimetre</td>	Product Length/Depth	584 millimetre
Product weight S6 kiogram Compliances ECCN 8937 Product Tradename ECCN 8937 Product Tradename ECMUNX Product Tradename ECMUNX Product Sub Type ECMUNX Delivery program ECMUNX Type ECMUNX Number of poles Four-pole Amperage Raing Electronic release Release system Electronic release Features Electronic release Special features Main terminals must be specified write optical in the specified write which is influenced by the aptitions, and any excessories Frame Frame Fitted with: Electronic release Voltage rating at AC Sourced fit indicator Voltage rating at AC Sourced fit indicator Release down in the specified write which is indicator Sourced fit indicator Voltage rating at AC Sourced fit indicator Release fit operating worked (UP) - main Sourced fit indicator Release rationg at AC Sourced fit indicator Release specified write which is in the specifie	Product height	597 millimetre
Compliances EC/LN 08947 EC BallS conform Product Tradename ZMX/INX Product Type ZMX/INX Product Type Circuit-breaker Product Type Air circuit breaker Delivery program Air circuit breaker Type Four-pole Amperage Rating Image: Control of the contrecontrol of the c	Product width	521 millimetre
Product Tradename IEC Product Tradename IZXX/INX Product Type Creati-breaker Product Sub Type None Delivery program Are circuit breaker/switch-disconnector Open circuit breaker/switch-disconnector Open circuit breaker/switch-disconnector Number of poles Four-pole Amperage Rating Four-pole Release system Four-pole Features Moor drive opinol Special features Moor drive opinol Special features Moor drive opinol Frame Moor drive opinol source with protection unit Frame IzXXXIN Prited with: IzXXXIN Used with Switched off indicator Voltage rating at AC Source and the specific and detailed information. Rated operating voltage (Uo) - max Switched off indicator Atted operating voltage (Uo) - max Switched off indicator Rated operating voltage (Uo) - max Switched off indicator Rated operating voltage (Uo) - max Switched off indicator Rated operating voltage (Uo) - max Switched off indicator Rated operating voltage (Uo) - max	Product weight	56 kilogram
Product Type Cruuit-breaker Product Sub Type None Delivery program Arr circuit breakers/switch-disconnector Type Open circuit breakers/switch-disconnector Mumber of poles Four-pole Amperage Rating 100 A Release system Electronic release Features Complete device with protection unit Special features Main terminals must be separately ordered. suitable for some selectivity optionally fittable types with comprehensive accessories Frame Zime Selectivity Fitted with: Zime Selectivity Used with Switched-off indicator Votage rating voltage (Ue) - min Selectivity Rated operating voltage (Ue) - min Selectivity Rated operating voltage (Ue) - max Selo V AC Rated ingulate withstand voltage (Ub) - max Selo V AC Rated ingulate withstand voltage (Ub) - max Selo V AC Rated ingulate withstand voltage (Ub) - max Selo V AC Rated ingulate withstand voltage (Ub) - max Selo V AC Rated ingulate withstand voltage (Ub) Selo V AC Rated ingulate voltage (Ub) - max Selo V AC <	Compliances	IEC
Product Sub Type None Delivery program Ari circuit breakers/witch-disconnector Type Four-pole Number of poles Four-pole Amperage Rating 1000 A Release system Electronic release Features Moter drive potional Special features Moter drive writh protection unit Special features Moter drives writh comprehensive accessories Frame Frame Fitted writh: Used writh protection deliad of protection (PP, the mount height, the partions, and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature and any external ventext, which as influenced by the ambient temperature, the dagree of protection (PP, the mount height, the partions, and any external ventext, which as influenced by by increasing the cross-sectional arac. Tomperature	Product Tradename	IZMX/INX
Delivery program Image: Constraint of the sector of th	Product Type	Circuit-breaker
Type Air circuit breaker/switch-disconnector Number of poles Four-pole Amprage Rating Four-pole Release system Electronic release Features Motor drive optional Special features Motor drive optional Special features Motor drive optional System Features Special features Motor drive optional System Switched device with protection unit System Motor drive optional Special features Motor drive optional System Terminal capacity thir. These are values used in separate switchgear. The actur values with the ambient temperature, the degree of protection (PL, the mount height, this may team of protection (PL, the mount height, the maint temperature, the degree of protection (PL, the mount height, the maint temperature, the degree of protection (PL, the mount height, the maint temperature, the degree of protection (PL, the mount height, the maint temperature, the degree of protection (PL, the mount height, the maint temperature, the degree of protection (PL, the mount height device) Frame ZMX40 Voltage rating at AC Switched-off indicator Voltage rating at AC Seo VAC Rated operating voltage (Ue) - min Seo VAC Rated operating voltage (Ui) Seo VAC	Product Sub Type	None
Number of poles Open circuit breaker Number of poles Four-pole Amperage Rating 1000 A Release system 1000 A Features Mator drive optional Complete device with protection unit Special features Main terminals must be separately ordered. subscriptionally ittable by user with comprehensive accessories optionally ittable by user with comprehensive accessories requires with depend on the temperature around the circuit breaker, which is initianced by the ambient temperature around the circuit breaker, which is initianced by the ambient temperature around the circuit breaker, which is initianced by the ambient temperature around the specific switchgear can provide specific and detailed information. Frame IMA Fitted with: IMA Used with Switched-off indicator Voltage rating at AC Setted operating voltage (Ue) - min Rated operating voltage (Ue) - max Setted operating voltage (Uin) Rated operating voltage (Uin) Four- subscriptional Setted Set VAC Rated uninterrupted current (Iu) IMA IMA	Delivery program	
Amperage Rating 100 A Release system Electronic release Features Motor drive optional Complete device with protection unit Spacial features Motor drive optional Complete device with protection unit Spacial features Main terminals must be separately ordered. suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint These are values used in separate switchgear. The actur values will depend on the temperature, acuad the degree of protection (IP), the mount 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. Emerprature resites that he specific switchgear can provide specific and detailed information. Frame IZMX40 Fitted with: IZMX40 Used with Switched-off indicator Voltage rating at AC 690 V AC Rated operating voltage (Ue) - min 690 V Rated operating voltage (Ui) 690 V Rated insultation voltage (Uin) 12kV AC Rated inpulse withstand voltage (Uin) 12kV AC Rated uninterrupted current (Lu) 1000 A	Туре	
Release system Features Electronic release Features Motor drive optional Complete device with protection unit Special features Main terminals must be separately ordered. suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The actur values with degree of protection (P), the mount height, the ambient temperature and any external vend the circuit breaker, which is similation. Degreening on the specific switchgear can provide specific and detailed information. Frame IMA IMA Fitted with: IMA Switched-off indicator Used with IMA Switched-off indicator Voltage rating at AC 690 V AC Rated operating voltage (U0) Fasted operating voltage (U0) Rated insultation voltage (U1) IMA Rated insultatin voltage (U1) IMA <	Number of poles	Four-pole
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Special features Main terminals must be separately ordered. Special features Main terminals must be separately ordered. Suitable for zone selectivity suitable for zone selectivity Special features Frame Frame ZMX40 Fitted with: Switched-off indicator Used with ZMX40 Fechnical Data - Electrical Switched-off indicator Voltage rating at AC Sego V AC Rated operating voltage (Ue) - max Sego V Rated insulation voltage (Ui) Main terringted current (Iu) Rated insulation voltage (Uimp) Tool V	Release system	Electronic release
Substrain	Features	
Fitted with: Switched-off indicator Used with Air circuit breakers/switch-disconnector Open circuit breaker Technical Data - Electrical Air circuit breakers/switch-disconnector Open circuit breaker Voltage rating at AC 690 V AC Rated operating voltage (Ue) - min 690 V Rated operating voltage (Ue) - max 690 V Rated insulation voltage (Uinp) 100 V Rated insulation voltage (Uinp) 12 kV AC Rated insulation voltage (Uinp) 12 kV AC	Special features	suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: 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
Used with Air circuit breakers/switch-disconnector Open circuit breakers/switch-disconnector Technical Data - Electrical Mir circuit breakers/switch-disconnector Open circuit breakers/switch-disconnector Voltage rating at AC 690 V AC Rated operating voltage (Ue) - max 690 V Rated insulation voltage (Ui) 690 V Rated insulation voltage (Uinp) 1000 V Rated insulation voltage (Uinp) 12 kV AC Rated uninterrupted current (lu) 1000 A	Frame	IZMX40
Technical Data - Electrical Open circuit breaker Voltage rating at AC 690 V AC Rated operating voltage (Ue) - min 690 V Rated operating voltage (Ue) - max 690 V Rated insulation voltage (Uin) 690 V Rated insulation voltage (Uinp) 1000 V Rated uninterrupted current (lu) 600 V	Fitted with:	Switched-off indicator
Voltage rating at AC 690 V AC Rated operating voltage (Ue) - min 690 V AC Rated operating voltage (Ue) - max 690 V AC Rated insulation voltage (Ui) 690 V AC Rated insulation voltage (Uinp) 1000 V Rated uninterrupted current (Iu) 1000 A	Used with	
Rated operating voltage (Ue) - min 690 V Rated operating voltage (Ue) - max 690 V Rated insulation voltage (Ui) 690 V Rated insulation voltage (Uinp) 1000 V Rated uninterrupted current (Iu) 100 V	Technical Data - Electrical	
Rated operating voltage (Ue) - max 600 V Rated insulation voltage (Ui) 1000 V Rated impulse withstand voltage (Uimp) 12 kV AC Rated uninterrupted current (Iu) 1000 A	Voltage rating at AC	690 V AC
Rated insulation voltage (Ui) 1000 V Rated impulse withstand voltage (Uimp) 12 kV AC Rated uninterrupted current (Iu) 1000 A	Rated operating voltage (Ue) - min	690 V
Rated impulse withstand voltage (Uimp) 12 kV AC Rated uninterrupted current (lu) 1000 A	Rated operating voltage (Ue) - max	690 V
Rated uninterrupted current (lu) 1000 A	Rated insulation voltage (Ui)	1000 V
	Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu) at 50°C 1000 A	Rated uninterrupted current (Iu)	1000 A
	Rated uninterrupted current (Iu) at 50°C	1000 A
Rated uninterrupted current (Iu) at 60°C 1000 A	Rated uninterrupted current (Iu) at 60°C	1000 A
Rated uninterrupted current (lu) at 70°C 1000 A	Rated uninterrupted current (Iu) at 70°C	1000 A
Rated short-time withstand current (t = 1 s) 85 kA	Rated short-time withstand current (t = 1 s)	85 kA
Rated short-time withstand current at 50/60 Hz (t = 3 s) 66 kA	Rated short-time withstand current at 50/60 Hz (t = 3 s)	66 kA
Overload release current setting - min 400 A	Overload release current setting - min	400 A
Overload release current setting - max 1000 A	Overload release current setting - max	1000 A
Short-circuit release delayed setting - min 750 A		750 A
Short-circuit release delayed setting - max 10000 A	Short-circuit release delayed setting - min	
Short-circuit release non-delayed setting 1.5 - 10 x lr		10000 A

Short-circuit release non-delayed setting - min	0 A
Short-circuit release non-delayed setting - max	15000 A
Adjustment range short-term delayed short-circuit release - min	600 A
Adjustment range short-term delayed short-circuit release - max	10000 A
Adjustment range undelayed short-circuit release - min	2000 A
Adjustment range undelayed short-circuit release - max	15000 A
Rated short-circuit breaking capacity at 400 V, 50 Hz	85 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	187 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	166 kA
Closing delay via spring release	35 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Operating sequence up to 690 V, 50/60 Hz (IEC/EN 60947)	75 kA
Actuator type	Push button
Utilization category	В
Overvoltage category	Ш
Pollution degree	3
Lifespan, electrical	20000 operations (switching cycles ON/OFF, with maintenance) 10000 operations (switching capacity)
Direction of incoming supply	As required
Technical Data - Mechanical	
Device construction	Built-in device fixed built-in technique
Mounting Method	Fixed
Degree of protection	IP31 with door seals IP55 with protective cover IP31
Protection	Selective operation
Number of auxiliary contacts (change-over contacts)	2
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Back side
Weight of fixed mounting version (4-pole)	56 kg
Lifespan, mechanical	12500 switching cycles (0N/OFF) 25000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	60 mm x 10 mm (1x) for fixed mounting (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	1000 A
Equipment heat dissipation, current-dependent	40 W
Heat dissipation at rated current with fixed mounting	40 W
Ambient operating temperature details	-20 °C - 70 °C
Ambient operating temperature - min	-20 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	70 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 switchgear must be observed.
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 9.0

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@ss13-27-37-04-09 [AJZ716018])

protection (Eclessis-27-07-04-03 [A02710010])		
Rated permanent current lu	А	1000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity lcu at 400 V, 50 Hz	kA	85
Overload release current setting	А	400 - 1000
Adjustment range short-term delayed short-circuit release	А	600 - 10000
Adjustment range undelayed short-circuit release	А	2000 - 15000
Power loss	W	40
Device construction		Built-in device fixed built-in technique
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
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 integrated under voltage release		No
Number of poles		4
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