Switch-disconnector, 3 pole, 1600A, without protection, IEC, Withdrawable



Part no. INX40B3-16W-1

184059

EL Number

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General specifications	
Product name	Eaton Moeller series IZMX/INX switch-disconnector
Part no.	INX40B3-16W-1
EAN	4015081795987
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	69 kilogram
Compliances	IEC/EN 60947 IEC RoHS conform
Product Tradename	IZMX/INX
Product Type	Switch-disconnector
Product Sub Type	None
Delivery program	
Туре	Air circuit breakers/switch-disconnector Open switch-disconnector
Number of poles	Three-pole
Amperage Rating	1600 A
Release system	Without releases
Features	Motor drive optional Version as main switch Version as maintenance-/service switch
Special features	Cassette must be separately ordered.  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 switchgear can provide specific and detailed information.
Frame	INX40
Suitable for	Ground mounting Distribution board installation Intermediate mounting
Used with	Open switch-disconnector Air circuit breakers/switch-disconnector
Technical Data - Electrical	
Voltage rating at AC	690 V AC
Rated operating voltage (Ue) - min	690 V
Rated operating voltage (Ue) - max	690 V
Rated operating voltage (Ue) at AC - max	690 V
Rated insulation voltage (Ui)	1000 V
Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu)	1600 A
Rated uninterrupted current (Iu) at 50°C	1600 A
Rated uninterrupted current (Iu) at 60°C	1600 A
Rated uninterrupted current (Iu) at 70°C	1600 A
Rated conditional short-circuit current (Iq)	144 kA
Rated permanent current at AC-21, 400 V	0 A
Rated permanent current at AC-23, 400 V	1600 A
Rated short-time withstand current (Icw)	66 kA

Rated short-time withstand current (t = 1 s)	66 kA
Rated short-time withstand current at 50/60 Hz (t = 3 s)	53 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	145 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	145 kA
Power of withdrawable switch with cassette	255 W
Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	0 kW
Switching power at 400 V	0 kW
Closing delay via spring release	35 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Actuator type	Push button
Utilization category	В
Overvoltage category	-
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 slide-in technique (withdrawable)
Mounting Method	Withdrawable
Degree of protection	IP55 with protective cover IP31 with door seals
Degree of protection (front side)	IP31
Protection	None
Number of auxiliary contacts (change-over contacts)	2
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Number of switches	1
Position of connection for main current circuit	Back side
Weight of cassette version (3-pole)	29 kg
Weight of fixed withdrawable version (3-pole)	60 kg
Actuator color	Green
Lifespan, mechanical	12500 switching cycles (ON/OFF) 25000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	80 mm x 10 mm (1x) for withdrawable units (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	1600 A
Equipment heat dissipation, current-dependent	255 W
Ambient operating temperature details	-20 °C - 70 °C
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient operating temperature - max  Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °C
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Design verification as per IEC/EN 61439	Mark the resolution of the first of
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.
Additional information	
Functions	Interlockable Voltage release optional

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Version as safety switch         Yes         No           Version as safety switch         No         No           Version as reversing switch         No         No           Version as reversing switch         No         No           Number of switches         Version as reversing switch         No         680-680           Max. rated operating voltage         Version as facts operating voltage         No         680-680           Rated operating voltage         A         1600           Rated operating voltage         A         6           Rated operating power at AC-23,400 V         A         6           Subtick of protecticular urrent ig         K         K         4           Conditioned rated short-dicular urrent ig         K         K         4           Number of auxiliary contacts as normally closed contact         K         N	Version as main switch		Yes
Version as emergency storich stallation	Version as maintenance-/service switch		Yes
Version as reversing switch         1           Namber of switches         1           Max. rated operation voltage Us AC         V         800-800           Rated operating voltage         V         800-800           Rated operating voltage         A         1600           Rated operating voltage         A         1600           Rated permanent current at AC-23, 400 V         A         1600           Rated operation power at AC-3, 400 V         A         6           Rated operation power at AC-3, 400 V         K         6           Rated operation power at AC-3, 400 V         K         6           Rated operation power at AC-24, 400 V         K         0           Rated operation power at AC-23, 400 V         K         0           Rated operation power at AC-24, 400 V         K         0           Number of operation power at AC-24, 400 V         K         0           Number of availary contacts as normally closed contact         K         4         14           Number of availary contacts as normally closed contact         Y         9         18           Notor drive optional         Y         Y         18           Notor drive optional         Y         Y         18           Notor drive opt	Version as safety switch		No
Number of switches         1	Version as emergency stop installation		No
Max. rated operation voltage Ue AC         V         689           Rated operating voltage         V         690           Rated permanent current IU         A         1500           Rated permanent current at AC-23,400 V         A         1500           Rated operation power at AC-34,400 V         A         0           Rated operation power at AC-3,400 V         B         6           Rated operation power at AC-24,400 V         B         6           Rated operation power at AC-23,400 V         W         0           Rated operation power at AC-23,400 V         W         0           Switching power at 400 V         W         0           Conditioned rated short-circuit current Iq         K         A         144           Number of poles         W         0         2         2           Number of auxiliary contacts as normally closed contact         W         0         2         2           Number of auxiliary contacts as normally closed contact         W         0         2         2         2           Motor drive integrated         W         0         2         2         2         2           Suitable for four mounting         W         0         2         2         2         2	Version as reversing switch		No
Rated operating voltage         V         680 - 690           Rated permanent current 14         A         1600           Rated permanent current at AC-23, 400 V         A         1600           Rated permanent current at AC-23, 400 V         A         0           Rated operation power at AC-3, 400 V         W         0           Rated short-ine withstand current EW         A         66           Rated operation power at AC-23, 400 V         W         0           Visite ing power at 400 V         W         0           Conditioned rated short-circuit current Iq         W         144           Number of poles         W         3         3           Number of poles         W         2         4         144           Number of auxiliary contacts as normally closed contact         W         0         2         0         144         144           Number of auxiliary contacts as change-over contact         W         2         2         2         2           Motor drive optional         W         3         8         8         8           Motor drive integrated         W         2         2         8           Suitable for fron mounting         1-tole         8         8         8 </td <td>Number of switches</td> <td></td> <td>1</td>	Number of switches		1
Rated permanent current tu         A         1600           Rated permanent current at AC-23, 400 V         A         1600           Rated permanent current at AC-21, 400 V         A         0           Rated operation power at AC-3, 400 V         IW         0           Rated operation power at AC-23, 400 V         IW         0           Rated operation power at AC-23, 400 V         IW         0           Switching power at 400 V         IW         0           Conditioned rated short-circuit current Iq         IA         144           Number of poles         IA         3           Number of auxiliary contacts as normally closed contact         IA         2           Number of auxiliary contacts as normally open contact         IA         9           Number of auxiliary contacts as change-over contact         IA         9           Motor drive optional         IA         9           Motor drive optional         IA         9           Voltage release optional         IA         9           Device construction         IA         9           Suitable for floor mounting         IA         No           Suitable for floor mounting 4-hole         IA         No           Suitable for floar mounting 4-hole <t< td=""><td>Max. rated operation voltage Ue AC</td><td>V</td><td>690</td></t<>	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V         A         1600           Rated permanent current at AC-21, 400 V         A         0           Rated operation power at AC-3, 400 V         W         0           Rated short-time withstand current Icw         KA         66           Rated short-time withstand current Icw         W         0           Rated peration power at AC-23, 400 V         W         0           Switching power at 400 V         W         0           Conditioned rated short-circuit current Iq         KW         144           Number of poles         A         144           Number of auxiliary contacts as normally open contact         C         0           Number of auxiliary contacts as normally open contact         C         2           Motor drive optional         C         Yes           Motor drive optional         C         Yes           Motor drive integrated         No         No           Voltage release optional         Yes         Wes           Suitable for from mounting         Yes         Wes           Suitable for from mounting 4-hole         Yes         Yes           Suitable for fromt mounting oertre         Yes         Yes           Suitable for intermediate mounting         <	Rated operating voltage	V	690 - 690
Rated permanent current at AC-21, 400 V         A         0           Rated operation power at AC-3, 400 V         kW         0           Rated short-time withstand current lcw         kA         66           Rated operation power at AC-23, 400 V         kW         0           Switching power at 400 V         kW         0           Conditioned rated short-circuit current lq         kA         144           Number of poles         B         3         3           Number of auxiliary contacts as normally closed contact         C         0           Number of auxiliary contacts as normally open contact         C         2           Motor drive optional         Yes         2           Motor drive optional         Yes         No           Motor drive integrated         Yes         Built-in device slide-in technique (withdrawable)           Voltage release optional         Yes         Suitable for floor mounting         Yes           Suitable for front mounting 4-hole         Yes         No           Suitable for front mounting 4-hole         Yes         No           Suitable for firet mounting 4-hole         Yes         No           Suitable for firet mounting 4-hole         Yes         Yes           Suitable for intermediate mounting	Rated permanent current lu	Α	1600
Rated operation power at AC-3, 400 V Rated short-time withstand current low Rated operation power at AC-23, 400 V Rwitching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally ope	Rated permanent current at AC-23, 400 V	Α	1600
Rated short-time withstand current Icw Rated operation power at AC-23, 400 V  WW Conditioned rated short-circuit current Iq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open co	Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-23, 400 V         kW         0           Switching power at 400 V         kW         0           Conditioned rated short-circuit current Iq         kA         144           Number of poles         A         3           Number of auxiliary contacts as normally closed contact         C         C           Number of auxiliary contacts as change-over contact         C         C           Motor drive optional         C         C         Ves           Motor drive integrated         No         Ves           Voltage release optional         Ves         Built-in device slide-in technique (withdrawable)           Suitable for floor mounting         Yes         Suitable for front mounting 4-hole         No           Suitable for fort mounting centre         No         No           Suitable for distribution board installation         Yes         No           Suitable for intermediate mounting         Yes         No           Suitable for intermediate mounting         Yes         Colour control element         Yes           Type of control element         Yes         Full button           Type of control element         Yes         Full button           Type of electrical connection of main circuit         Yes         Full button	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V     kW     144       Conditioned rated short-circuit current Iq     kA     144       Number of poles     3     3       Number of auxiliary contacts as normally closed contact     0     0       Number of auxiliary contacts as normally open contact     2     2       Motor drive optional     2     4     2       Motor drive integrated     4     4     8       Voltage release optional     4     7     8       Device construction     4     7     8       Suitable for floor mounting     4     7     8       Suitable for front mounting 4-hole     4     8     9       Suitable for find mounting 6-thole     4     9     9       Suitable for distribution board installation     4     7     9       Suitable for intermediate mounting     4     7     9       Colour control element     4     9     9     9       Type of control element     4     9     9     9       Type of control element     4     9     9     9       Type of electrical connection of main circuit     4     9     9	Rated short-time withstand current lcw	kA	66
Conditioned rated short-circuit current IqkA144Number of poles33Number of auxiliary contacts as normally closed contact00Number of auxiliary contacts as normally open contact00Number of auxiliary contacts as change-over contact22Motor drive optionalYesNoMotor drive integratedNoYesVoltage release optionalYesBuilt-in device slide-in technique (withdrawable)Suitable for floor mountingYesNoSuitable for floor mounting 4-holeNoNoSuitable for front mounting centreNoNoSuitable for distribution board installationYesNoSuitable for intermediate mountingYesYesColour control elementYesGreenType of control elementYesPush buttonInterlockableYesRail connectionType of electrical connection of main circuitRail connectionRail connection	Rated operation power at AC-23, 400 V	kW	0
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No  No  No  No  No  No  No  No  No  N	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive optional  Motor drive integrated  No  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for floor mounting centre  Suitable for fort mounting centre  Suitable for fort mounting centre  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of electrical connection of main circuit  Type of electrical connecti	Conditioned rated short-circuit current Iq	kA	144
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Notor drive integrated  No  Voltage release optional  Pes  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for fort mounting centre  Suitable for firont mounting centre  Suitable for fort mounting centre  Suitable for fort mounting centre  Suitable for intermediate mounting  Suitable for intermediate mounting  Type of control element  Type of control element  Type of electrical connection of main circuit  No  Rail connection	Number of poles		3
Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for firont mounting centre  Suitable for firont mounting centre  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of electrical connection of main circuit  Mo  Yes  Rail connection	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated No Voltage release optional Ves Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit  Yes Rail connection	Number of auxiliary contacts as normally open contact		0
Motor drive integratedNoVoltage release optionalYesDevice constructionBuilt-in device slide-in technique (withdrawable)Suitable for floor mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationYesSuitable for intermediate mountingYesColour control elementGreenType of control elementPush buttonInterlockableYesType of electrical connection of main circuitRail connection	Number of auxiliary contacts as change-over contact		2
Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Yes  Suitable for intermediate mounting  Rail connection	Motor drive optional		Yes
Device construction Suitable for floor mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit  Built-in device slide-in technique (withdrawable) Yes No No Suitable for front mounting centre No Suitable for distribution board installation Yes Green Green Type of electrical connection of main circuit Rail connection	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Type of control element Interlockable Type of electrical connection of main circuit  Yes Rail connection	Voltage release optional		Yes
Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  No  Yes  Green  Push button  Yes  Type of electrical connection of main circuit  Rail connection	Device construction		Built-in device slide-in technique (withdrawable)
Suitable for front mounting centre  No Suitable for distribution board installation  Yes Suitable for intermediate mounting  Yes Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Rail connection	Suitable for floor mounting		Yes
Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Type of control element Interlockable Type of electrical connection of main circuit  Rail connection	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting  Yes  Colour control element  Type of control element  Push button  Interlockable  Type of electrical connection of main circuit  Rail connection	Suitable for front mounting centre		No
Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Green  Push button  Yes  Type of electrical connection of main circuit  Rail connection	Suitable for distribution board installation		Yes
Type of control element  Interlockable  Type of electrical connection of main circuit  Push button  Yes  Type of electrical connection of main circuit  Rail connection	Suitable for intermediate mounting		Yes
Interlockable Yes  Type of electrical connection of main circuit Rail connection	Colour control element		Green
Type of electrical connection of main circuit  Rail connection	Type of control element		Push button
	Interlockable		Yes
With pre-assembled cabling No	Type of electrical connection of main circuit		Rail connection
	With pre-assembled cabling		No

Degree of protection (IP), front side		IP31
Degree of protection (NEMA)		
Width	mm	m 521
Height	mm	m 597
Depth	mm	m 584
Width in number of modular spacings		24