



E La	Part no.	INX40N3-25W-1
	Article no.	184069

Delivery program

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open switch-disconnectors
Current Range			Up to 4000 A
Protective function			without protection
Installation type			Withdrawable
			Cassette must be separately ordered.
Construction size			INX40
Release system			without releases
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP31 with door seals, IP55 with protective cover
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	2500
Bemessungskurzschlusseinschaltvermögen bis 440V/690V 42/42	I _{cm}	kA	187
Bemessungskurzzeitstromfestigkeit t = 1 s	I _{cw}	kA	85
Bemessungskurzzeitstromfestigkeit t = 3 s	I _{cw}	kA	66

Technical data Conoral

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General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	θ	°C	-40 - +70
Ambient temperature		°C	-25 - +70
Mounting position			
Utilization category			В
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	$I_n = I_u$	Α	2500
Rated uninterrupted current at 50 °C	lu	А	2500
Rated uninterrupted current at 60 °C	lu	А	2500
Rated uninterrupted current at 70 °C	I _u	А	2500
Rated impulse withstand voltage	U _{imp}	V AC	12000
Rated operational voltage	U _e	V AC	690
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	187
up to 690 V 50/60 Hz	I _{cm}	kA	166
Rated short-time withstand current 50/60 Hz			
Rated short-time withstand current (t=1s)	I _{cw}	kA	85
t = 3 s	I _{cw}	kA	66

Operating times			
Closing delay via spring release		ms	30
Total opening delay via shunt release		ms	35
Total opening delay via undervoltage release		ms	40
Lifespan		S	
Lifespan, mechanical	Switching cycles (ON/ OFF)		10000
Lifespan, mechanical with maintenance	Switching cycles (ON/ OFF)		20000.
Lifespan, electrical	Switching cycles (ON/ OFF)		5000
Lifespan, electrical with maintenance	Switching cycles (ON/ OFF)		10000.
Maximum operating frequency		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I _n			
Withdrawable units (switch with cassette)		W	350
Weight			
Withdrawable			
3-pole		kg	66
Cassette			
3 pole		kg	29
Terminal capacities			
Copper bar			
Withdrawable units			
Black		mm	2 x 80 x 10
			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.

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	2500
Equipment heat dissipation, current-dependent	P _{vid}	W	350
Operating ambient temperature min.		°C	-25
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 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 6.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

Arraion as maintenance-/sarvice switch Image: Sampa description of the second of the sec	[
Persion as aftery witch Image: Persion as aftery witch Non-index conservations witch Version as reversing switch Sol Non-index conservations witch Max. rated operation voltage UAC V Sol Rated operation power at AC-31,400 V V Sol Rated operation power at AC-32,400 V V Sol Solution power at AC-32,400 V V Sol Solution power at AC-32,400 V V Sol Number of poles V Sol Number of poles V Sol Number of poles V Sol Number of qualitary contacts as normally cose contact V Sol Number of qualitary contacts as normally cose contact V Sol Number of qualitary contacts as normally cose contact V Sol Number of qualitary contacts as normally cose contact V Sol Solution fortwordinting shole V Sol </td <td>Version as main switch</td> <td></td> <td>Yes</td>	Version as main switch		Yes
Arrian as amergency scip installation Image: Science S	Version as maintenance-/service switch		No
Arrival operation voltage Ue AC No Max. rated operation voltage Ue AC S0 Arade operation voltage Ue AC S0 Rated operation voltage Ue AC S0 Rated operation voltage Ue AC A Rated operation yoltage A Rated operation power at AC-3, 400 V A Rated operation power at AC-3, 400 V G Rated operation power at AC-3, 400 V G Switching power at 400 V G Switching for intermediate sind-intermediate sind-intexte	Version as safety switch		No
Mar at at d operation voltage U A AC 90 90 Rated operation voltage V 600 600 Rated operation voltage V 600 600 Rated operation voltage V 600 600 Rated operation voltage U A C 20, 400 V V 0 0 Rated operation power at AC 23, 400 V V 0 0 Rated operation power at AC 23, 400 V V 0 0 Rated operation power at AC 23, 400 V V 0 0 Switching power at 400 V V 0 0 0 Switching power at 400 V V 0	Version as emergency stop installation		No
Rated operation yokage V 600 - 690 Rated permanent current lu A 2500 Rated operation power at AC-21, 400 V KW 0 Rated operation power at AC-23, 400 V KW 0 Rated operation power at AC-23, 400 V KM 0 Rated operation power at AC-23, 400 V KM 0 Switching power at AC-23, 400 V KM 0	Version as reversing switch		No
Rated permanent current lu Image: Solution of the solu	Max. rated operation voltage Ue AC	V	690
Rated operation power at AC-3, 400 V A 0 Rated operation power at AC-3, 400 V KMV 0 Rated operation power at AC-3, 400 V KMV 0 Rated operation power at AC-3, 400 V KMV 0 Switching power at AC-3, 400 V KMV 0 Number of auxiliary contacts as normally closed contact KMV 0 Number of auxiliary contacts as change-over contact KMV 0 Motor drive prioral KMV Secondational (Withdrawable) Switche or ground mounting KMV Secondational (Withdrawable) Switche for fort mounting enter KMV No S	Rated operating voltage	v	690 - 690
Atted operation power at AC-3, 400 V Image: Atted operation power at AC-23, 400 V <td>Rated permanent current lu</td> <td>А</td> <td>2500</td>	Rated permanent current lu	А	2500
Art de short-time withstand current low Image: Source de short-circuit current low <td>Rated permanent current at AC-21, 400 V</td> <td>А</td> <td>0</td>	Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-23, 400 V INV 0 Switching power at 400 V KW 0 Conditioned rated short-circuit current Iq KW 187 Number of poles A 18 Number of auxiliary contacts as normally closed contact M 10 Number of auxiliary contacts as normally closed contact M 10 Number of auxiliary contacts as change-over contact M 10 Number of auxiliary contacts as change-over contact M 10 Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M Mo Suitable for front mounting enter N No Suitable for intermediate mounting M	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 VKW0Conditioned rated short-circuit current lqKA187Number of poles000Number of auxiliary contacts as normally closed contactKA0Number of auxiliary contacts as change-over contactKA0Number of auxiliary contacts as change-over contactKA0Motor drive optionalKAVersMotor drive integratedKAVersNumber of auxiliary contacts as change-over contactKAVersMotor drive integratedKAVersNotage release optionalKAVersSuitable for ground mountingKAVersSuitable for front mounting 4-holeKAVersSuitable for rint mounting centerKAVersSuitable for rint mounting centerKAVersSuitable for rint mounting centerKAVersSuitable for rint mounting centerKAKaSuitable for rint mountin	Rated short-time withstand current lcw	kA	85
Conditioned rated short-circuit current Iq Image: AA Image: AA Image: AA Number of poles Image: AA Image:	Rated operation power at AC-23, 400 V	kW	0
Number of poles3Number of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as change-over contact0Motor drive optionalVesMotor drive integratedNoNotage release optionalNoDevice constructionNoSuitable for ground moutingNoSuitable for front mouting 4-holeNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoSui	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact2Motor drive optionalVesMotor drive optionalNoVoltage release optionalYesDevice constructionBuilt-in device slide-in technique (withdrawable)Suitable for ground mounting 4-holeNoSuitable for front mounting 4-holeNoSuitable for intermediate mountingYesSuitable for intermediate mountingNoSuitable for intermedia	Conditioned rated short-circuit current Iq	kA	187
Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as normally open contact 2 Mutor drive optional Ves Motor drive integrated No Voltage release optional Sei Device construction Suitable for ground mounting Suitable for ground mounting 4-hole No Suitable for front mounting center No Suitable for intermediate mounting Ves Suitable for intermediate mounting No Suitable for fort mounting center No Suitable for intermediate mounting Sei	Number of poles		3
Number of auxiliary contacts as change-over contact Image: Section of the section of t	Number of auxiliary contacts as normally closed contact		0
Autor drive optional Yes Motor drive integrated No Voltage release optional Yes Device construction Built-in device slide-in technique (withdrawable) Suitable for ground mounting Yes Suitable for front mounting 4-hole Yes Suitable for front mounting center No Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Yes Type of control element Sected Fype of control element Yes Type of electrical connection of main circuit Sected	Number of auxiliary contacts as normally open contact		0
Motor drive integrated No Wotage release optional Ves Device construction Built- in device slide- in technique (withdrawable) Suitable for ground mounting Yes Suitable for front mounting 4-hole Votage release optional Suitable for front mounting center No Suitable for front mounting center No Suitable for intermediate mounting Yes Suitable for intermediate mounting No Colour control element Yes Type of electrical connection of main circuit Yes	Number of auxiliary contacts as change-over contact		2
Voltage release optional Yes Device construction Built- in device slide-in technique (withdrawable) Suitable for ground mounting Yes Suitable for front mounting 4-hole Yes Suitable for front mounting center Yes Suitable for intermediate mounting Yes	Motor drive optional		Yes
Device construction Built-in device slide-in technique (withdrawable) Suitable for ground mounting Yes Suitable for front mounting enter No Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Yes Type of control element Yes Interlockable Yes	Motor drive integrated		No
Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting center No Suitable for distribution board installation Yes Suitable for intermediate mounting No Colour control element Yes Type of control element Yes Interlockable Yes Type of electrical connection of main circuit Solitable for intermediate mounting	Voltage release optional		Yes
Suitable for front mounting 4-hole No Suitable for front mounting center No Suitable for distribution board installation Yes Suitable for intermediate mounting Officiation Section Se	Device construction		Built-in device slide-in technique (withdrawable)
Suitable for front mounting center Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit	Suitable for ground mounting		Yes
Suitable for distribution board installation Yes Suitable for intermediate mounting No Colour control element Green Type of control element Hush button Interlockable Yes Type of electrical connection of main circuit Image: Colour control element	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit No No Rail connection No No Suitable for intermediate mounting No Green Suitable Ves Suitable Suita	Suitable for front mounting center		No
Colour control element Green Type of control element Push button Interlockable Yes Type of electrical connection of main circuit Rail connection	Suitable for distribution board installation		Yes
Type of control element Push button Interlockable Yes Type of electrical connection of main circuit Rail connection	Suitable for intermediate mounting		No
Interlockable Yes Yes Rail connection	Colour control element		Green
Type of electrical connection of main circuit Rail connection	Type of control element		Push button
	Interlockable		Yes
Degree of protection (IP), front side IP31	Type of electrical connection of main circuit		Rail connection
	Degree of protection (IP), front side		IP31

Dimensions



