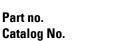
DATASHEET - INX40B4-32F-1



Switch-disconnector, 4 pole, 3200A, without protection, IEC, Fixed



INX40B4-32F-1 184078

4398440



EL-Nummer (Norway)

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			Fixed
Construction size			INX40
Release system			without releases
Standard/Approval			IEC
Number of poles			4 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	3200
Rated short-circuit making capacity up to 440V/690V 42/42	I _{cm}	kA	145
Rated short-time withstand current t =1 s	I _{cw}	kA	66
Rated short-time withstand current t =3 s	I _{cw}	kA	53

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-40 - +70
Ambient temperature		°C	-25 - +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 paths			
Rated current = rated uninterrupted current	$I_n = I_u$	А	3200
Rated uninterrupted current at 50 °C	lu	A	3200
Rated uninterrupted current at 60 °C	lu	А	3200
Rated uninterrupted current at 70 °C	lu	А	3200
Rated impulse withstand voltage	U _{imp}	V AC	12000
Rated operational voltage	Ue	V AC	690
Overvoltage category/pollution degree			111/3
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	145
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)		2000.
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 In			
Fixed mounting		W	385
Weight			
Fixed mounting			
4-pole		kg	54
Terminal capacities			
Copper bar			
Fixed mounting			
Black		mm	3 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

Design vernication as per ilo/liv 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	3200
Equipment heat dissipation, current-dependent	P _{vid}	W	385
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 7.0

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@ss10.0.1-27-37-14-03 [AKF060013])

Varial namination whether whether with the set of	[AKI 000015])		
Varian as aftery subtif Image of subtification Image of subtification Varian as arregency stop installation Image of subtification Image of subtification Varian as reversing switch Image of subtification Image of subtification Namber of subtification Image of subtification Image of subtification Namber of subtification Image of subtification Image of subtification Rated permenent current at AC-21, 400 V Image of subtification Image of subtification Rated permenent current at AC-21, 400 V Image of subtification Image of subtification Rated permenent current at AC-21, 400 V Image of subtification Image of subtification Rated permenent current at AC-21, 400 V Image of subtification Image of subtification Rated permenent current at AC-21, 400 V Image of subtification Image of subtification Subtification current lab Image of subtification Image of subtification Image of subtification Subtification current at AC-23, 400 V Image of subtification current at	Version as main switch		Yes
Version as enversing switch Image: Provide Sector Sec	Version as maintenance-/service switch		No
Version as eversing worthImage: Set of the set of th	Version as safety switch		No
Number of witching Image: space of the spac	Version as emergency stop installation		No
Nax. rate operation voltage UPAC Y 80 Rated operation voltage V 800 800 Rated operation voltage V 800 800 Rated operation voltage V 800 800 Rated operation voltage UPAC V 800 800 Rated operation power at AC3, 400 V V 0 0 Rated operation power at AC3, 400 V V 0 0 Rated operation power at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 Solicit op ower at AC3, 400 V V 0 0 0 Nother of solicit op ontat as ontran	Version as reversing switch		No
Rete operament current lu 80 80 800 Rete operament current lu 200 200 Rete operament current at AC-23, 400 V V 0 Rete operament current at AC-23, 400 V V 0 Rete operation power at AC-3, 400 V V 0 Rete operation power at AC-3, 400 V V 0 State short-ine withstand current leW V 0 State short-ine withstand current leW V 0 State short-incur current lq V 0 Number of audiary contracts as normally closed contact V 0 Number of audiary contracts as normally closed contact V 0 Number of audiary contracts as normally closed contact V 0 Number of audiary contracts as normally closed contact V No Number of audiary contracts as normally closed contact V No Number of audiary contracts as normally closed contact V No Number of audiary contracts as normally closed contact V No Number of audiary contracts as normally closed contact V No Number of audiary contacts as normaly closed contact No	Number of switches		
Reted permanent current la 200 Reted permanent current la AC-23, 400 V A Reted permanent current la AC-23, 400 V C Reted permanent current la C Statel permanent current la C Number of auxiliary contacts as normally closed contact C Number of auxiliary contacts as change-over contact C State der fort mounting 4-D C State for fort mounting 4-D C State for fort mounting 4-D C <	Max. rated operation voltage Ue AC	V	690
Rade permanent current at AC-21, 400 V A Constrained permanent current at AC-21, 400 V Rated operation power at AC-34, 400 V FW 0 Rated short-time withstand current low FW 6 Rated short-time withstand current low FW 0 Switching power at AC-23, 400 V FW 0 Switching power at 400 V FW 0 Switching power at 400 V FW 0 Conditioned rated short-tircu turrent lq FW 0 Number of poles FW 0 Number of auxiliary contacts as nomally closed contact FW 0 Number of auxiliary contacts as nomally closed contact FW 0 Number of auxiliary contacts as nomally closed contact FW 0 Number of auxiliary contacts as nomally closed contact FW 0 Number of auxiliary contacts as nomally closed contact FW 0 Number of auxiliary contacts as nomally closed contact FW FW Number of auxiliary contacts as nomally closed contact FW FW Number of auxiliary contacts as nomally closed contact FW FW	Rated operating voltage	۷	690 - 690
Act A 0 Rated operation power at AC-31, 400 V W 0 Rated operation power at AC-32, 400 V EA 68 Switch in power at AC-32, 400 V C W 0 Switch in power at AC-32, 400 V C Rated operation power at AC-32, 400 V C C Rated operation power at AC-32, 400 V C C Rated operation power at AC-32, 400 V C	Rated permanent current lu	А	3200
Are operation power at AC-3, 400 V Image: Area operation power at AC-23, 400 V Image: Area operation power power at AC-23, 400 V Image: Area operation power power power at AC-23, 400 V Image: Area operation power power power power power power powe	Rated permanent current at AC-23, 400 V	А	
Rete short-time withstand current low Image: Rete operation power at AC-23, 400 V Image: Rete operation power at A00 V Image: Rete operation power at 400 V Image: Rete operation power p	Rated permanent current at AC-21, 400 V	А	0
Ret depration power at AC-23, 400 V IMV 0 Switching power at 400 V IMV 0 Conditioned reted short-circuit current lq IA IA4 Number of poles IA IA Number of auxiliary contacts as normally closed contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Number of auxiliary contacts as change-over contact IA IA Suitable for fort mounti	Rated operation power at AC-3, 400 V	kW	0
Notiching power at 400 VImage: A stand of the	Rated short-time withstand current lcw	kA	66
Condition rated short-circuit current IqImage: A constant of	Rated operation power at AC-23, 400 V	kW	0
Number of pais Image: Section of Sectin of Section of Section of Sectin of Section of	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact Imper of auxiliary contacts as normally open contact	Conditioned rated short-circuit current Iq	kA	144
Number of auxiliary contacts as normally open contact Image: Section of the sect	Number of poles		4
Number of auxiliary contacts as change-over contact Image: Section of the sectio	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Yes Motor drive integrated No Voltage release optional Yes Device construction Suitable for ground mounting Suitable for ground mounting 4-hole Yes Suitable for front mounting centre No Suitable for front mounting centre Yes Suitable for intermediate mounting Yes Suitable for inter	Number of auxiliary contacts as normally open contact		0
Motor dive integrated Model Model Model Motor dive integrated Ves Second Suit-in device fixed built-in technique Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for front mounting centre Suitable for distribution board installation Second No Suitable for intermediate mounting Second No Second Second Suitable for intermediate mounting Second No Second	Number of auxiliary contacts as change-over contact		2
Voltage release optionalYesDevice constructionBuilt-in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationYesSuitable for intermediate mountingYesColour control elementYesType of control elementYesType of electrical connection of main circuitYesDegree of protection (IP), front sideYesType of entremediateYesType of entremediateYesType of entremediateYesType of entremediate mountingYesType of entremediateYesType of entremediateYesType of entremediateYesType of entremediateYesType of entremediateYesType of entremediateYes <td>Motor drive optional</td> <td></td> <td>Yes</td>	Motor drive optional		Yes
Device constructionBillDevice constructionBill-in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for fixer mounting centreYesSuitable for distribution board installationYesSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementNoType of control elementYesInterlockableYesType of electrical connection of main circuitYesDegree of protection (IP), front sideYesInterlockableFail connectionInterlockableFail connectionType of electrical connection (IP), front sideInterlockableInterlockableInterlockableInterlockableFail connectionInterlockableFail co	Motor drive integrated		No
Suitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationYesSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementSereenType of control elementYesInterlockableYesType of electrical connection of main circuitSereenPagree of protection (IP), front sideInterlockableInterlockableInterlockableInterlockableSereenType of electrical connection of main circuitInterlockable <td>Voltage release optional</td> <td></td> <td>Yes</td>	Voltage release optional		Yes
Suitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationYesSuitable for intermediate mountingNoColour control elementGreenType of control elementYesInterlockableYesType of electrical connection of main circuitSectionPagree of protection (IP), front sideSectionNoSectionSuitable for intermediateYesSuitable for intermediateYesSuitable for intermediateSectionSuitable for intermediateSectionSuitable for intermediateSectionSuitable for intermediateYesSuitable for intermediateSectionSuitable for intermediate </td <td>Device construction</td> <td></td> <td>Built-in device fixed built-in technique</td>	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centreNoSuitable for distribution board installationYesSuitable for intermediate mountingNoColour control elementGreenType of control elementYesInterlockableYesType of electrical connection of main circuitYesDegree of protection (IP), front sideSol and an and an and and and and and and a	Suitable for ground mounting		Yes
Suitable for distribution board installationYesSuitable for intermediate mountingNoColour control elementGreenType of control elementPush buttonInterlockableYesType of electrical connection of main circuitImage: Section of main circuitDegree of protection (IP), front sideSection of main circuit	Suitable for front mounting 4-hole		No
Suitable for intermediate mountingNoColour control elementGreenType of control elementPush buttonInterlockableYesType of electrical connection of main circuitMoDegree of protection (IP), front sideMo	Suitable for front mounting centre		No
Colour control element Green Type of control element Push button Interlockable Yes Type of electrical connection of main circuit Rail connection Degree of protection (IP), front side Image: State	Suitable for distribution board installation		Yes
Type of control element Push button Interlockable Yes Type of electrical connection of main circuit Mail connection Degree of protection (IP), front side Mail connection	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Mail connection Degree of protection (IP), front side Image: Additional content in the section of th	Colour control element		Green
Type of electrical connection of main circuit Rail connection Degree of protection (IP), front side IP31	Type of control element		Push button
Degree of protection (IP), front side	Interlockable		Yes
	Type of electrical connection of main circuit		Rail connection
Degree of protection (NEMA)	Degree of protection (IP), front side		IP31
	Degree of protection (NEMA)		



