



Part no.	INX40B4-08W-1
Article no.	184088

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			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	800
Bemessungskurzschlusseinschaltvermögen bis 440V/690V 42/42	I _{cm}	kA	145
Bemessungskurzzeitstromfestigkeit t = 1 s	I _{cw}	kA	66
Bemessungskurzzeitstromfestigkeit t = 3 s	I _{cw}	kA	53

Technical data

Anbient emperature Storage Anbient temperature Anbient temperature Anbient temperature Mounting position Utilization category Degree of Protection Direction of incoming supply Moin conducting paths Mounting position Mounting position Antic of Moun	General					
Storage8°C40 - 70Anbient temperature°C25 - 70Mounting positionF25 - 70Mounting positionFSMounting positionFFMounting positionFFMounting positionFSUtilization categoryFSDegree of ProtectionFFDrete of of norming supplyFFMounter of rated uniterrupted current at 50 °CFSRated uniterrupted current 450 °CIuARated uniterrupted Current 450 °CIuA <td>Standards</td> <td></td> <td></td> <td>IEC/EN 60947</td>	Standards			IEC/EN 60947		
Ambient temperature "C 25 - 170 Mounting position Image: Company temperature 25 - 170 Mounting position Image: Company temperature Image: Company temperature Utilization category Image: Company temperature Image: Company temperature Degree of Protection Image: Company temperature Image: Company temperature Direction of incoming supply Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature Rated uninterrupted current at 50 °C Image: Company temperature Image: Company temperature	Ambient temperature					
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للانالذعلة عنه المحكمة المحكمة المحكمة المحكمة المحكمة المحكمة المحكمة ال	Ambient temperature		°C	-25 - +70		
Degree of Protection IP31 with door seals, IP55 with protective cover as required Direction of incoming supply is required Main conducting paths is required Rated current = rated uninterrupted current In = Iu A Rated uninterrupted current at 50 °C Iu A Rated uninterrupted current at 60 °C Iu A Rated uninterrupted current at 70 °C Iu A Rated uninterrupted current at 70 °C Iump VA Rated inspulse withstand voltage Uemp VA Rated angerational voltage Uemp VA Switching capacity Iump VA Switching capacity Iump VA up to 440 V 50/60 Hz Iump VA up to 680 V 50/60 Hz Iump VA Rated short-time withstand current (t=1s) Iump VA	Mounting position			30° 30° 30° 30°		
Direction of incoming supply are live are equired Main conducting paths In = Iu A 90 Rated current = rated uninterrupted current at 50 °C Iu A 90 Rated uninterrupted current at 60 °C Iu A 90 Rated uninterrupted current at 70 °C Iu A 90 Rated ininterrupted current at 70 °C Iu A 90 Rated operational voltage Iu A 90 Rated operational voltage Iu A 90 Overvoltage category/pollution degree Iu A 90 Switching capacity Iu VAC 60 Switching capacity Iu VAC 60 Iu pt 6400 V50/60 Hz Iu VAC 90 Iu pt 6400 V50/60 Hz Iu VAC 90 Iu pt 6400 V50/60 Hz Iu KA 145 Rated short-time withstand current 50/60 Hz Iu Iu Rated short-time withstand current (t=1s) Iu Iu	Utilization category			В		
Main conducting paths Image: Section of the sectin of the section of the section of the section	Degree of Protection			IP31 with door seals, IP55 with protective cover		
Rated current = rated uninterrupted current t 50 °C Iu Au 800 Rated uninterrupted current at 50 °C Iu Au 800 Rated uninterrupted current at 60 °C Iu Au 800 Rated uninterrupted current at 60 °C Iu Au 800 Rated uninterrupted current at 70 °C Iu Au 800 Rated inpulse withstand voltage Iump VAC 800 Rated operational voltage Ve VAC 800 Rated inpulse withstand voltage Ve VAC 800 Overvoltage category/pollution degree Ve VAC 800 Stricting capacity Ve VAC 800 Stricting capacity Ve VAC 800 Stricting capacity Ve Ve 800 Stricting capacity Ve Ve 800 Iup to 690 V 50/60 Hz Iem KAu 145 Iup to 690 V 50/60 Hz Iem Kau 145 Rated short-time withstand current (t=1s) Iem Kau Kau	Direction of incoming supply			as required		
Rated uninterrupted current at 50 °C Iu A 800 Rated uninterrupted current at 60 °C Iu A 800 Rated uninterrupted current at 70 °C Iu A 800 Rated inpulse withstand voltage Iu A 800 Rated operational voltage Ump VAC 800 Overvoltage category/pollution degree Ue VAC 600 Switching capacity Ue VAC 800 Switching capacity Ue VAC 800 Invo 440 V 50/60 Hz Ue VAC 800 Invo 590 V 50/60 Hz Invo VAC 800 Invo 590 V 50/60 Hz Invo VAC 900 Invo 440 V 50/60 Hz Invo VAC 900 Invo 590 V 50/60 Hz Invo	Main conducting paths					
Rated uninterrupted current at 60 °C Iu A 800 Rated uninterrupted current at 70 °C Iu A 800 Rated inpulse withstand voltage Ump VAC 2000 Rated operational voltage Ue VAC 600 Overvoltage category/pollution degree Ue VAC 600 Rated insulation voltage Ue VAC 600 Switching capacity Ui Va 100 Switching capacity Icm Icm 100 In pt 640 V 50/60 Hz Icm Icm 15 In pt 660 V 50/60 Hz Icm KAC 15 Rated short-time withstand current 50/60 Hz Icm KAC 16 Rated short-time withstand current (t=1s) Icw KAC 16	Rated current = rated uninterrupted current	$I_n = I_u$	А	800		
Rated uninterrupted current at 70 °C Iu A 800 Rated impulse withstand voltage Uimp VAC 12000 Rated operational voltage Ue VAC 900 Overvoltage category/pollution degree VAC 11/3 Rated insulation voltage Uimp VaC 1000 Switching capacity Uimp VaC 1000 Switching capacity Image Image Image up to 440 V 50/60 Hz Image Image Image up to 690 V 50/60 Hz Image Image Image Rated short-time withstand current 50/60 Hz Image Image Image Rated short-time withstand current full Image Image Image	Rated uninterrupted current at 50 °C	lu	Α	800		
Rated impulse withstand voltage Uimp V AC 1200 Rated operational voltage Ue V AC 690 Overvoltage category/pollution degree Ui V AC 11/3 Rated insulation voltage Ui V AC 100 Switching capacity I 100 100 Switching capacity I I 100 I up to 440 V 50/60 Hz I I I I up to 690 V 50/60 Hz Icm KA 145 Rated short-time withstand current 50/60 Hz Icm KA 145 Rated short-time withstand current (t=1s) Icm KA 66	Rated uninterrupted current at 60 °C	lu	А	800		
Rated operational voltage Ue VAC 690 Overvoltage category/pollution degree III/3 III/3 Rated insulation voltage Ui V 1000 Switching capacity I I III/3 Switching capacity I III/3 III/3 In provide state distribution voltage I III/3 III/3 Switching capacity I III/3 III/3 In provide state distribution voltage I III/3 III/3 Switching capacity I III/3 III/3 In provide state distribution voltage I III/3 III/3 Switching capacity I III/3 III/3 In provide state distribution voltage III/3 III/3 III/3 In provide state distribution voltage III/3 III/3 IIII/3 In provide state distrin	Rated uninterrupted current at 70 °C	lu	А	800		
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Rated insulation voltage Ui V 1000 Switching capacity I I I Rated short-circuit making capacity I I I up to 440 V 50/60 Hz I I I up to 690 V 50/60 Hz I I I Rated short-time withstand current 50/60 Hz I I I Rated short-time withstand current (t=1s) I I I	Rated operational voltage	U _e	V AC	690		
Switching capacity Icm Rated short-circuit making capacity Icm up to 440 V 50/60 Hz Icm up to 690 V 50/60 Hz Icm Rated short-time withstand current 50/60 Hz Icm Rated short-time withstand current (t=1s) Icw KA	Overvoltage category/pollution degree			111/3		
Rated short-circuit making capacity Icm up to 440 V 50/60 Hz Icm KA 145 up to 690 V 50/60 Hz Icm KA 145 Rated short-time withstand current 50/60 Hz Icm KA 145 Rated short-time withstand current (t=1s) Icw KA 66	Rated insulation voltage	Ui	V	1000		
up to 440 V 50/60 Hz Icm KA 145 up to 690 V 50/60 Hz Icm KA 145 Rated short-time withstand current 50/60 Hz Icm KA 145	Switching capacity					
up to 690 V 50/60 Hz Icm KA 145 Rated short-time withstand current 50/60 Hz Icm KA 66	Rated short-circuit making capacity	I _{cm}				
Rated short-time withstand current 50/60 Hz I _{cw} kA 66	up to 440 V 50/60 Hz	I _{cm}	kA	145		
Rated short-time withstand current (t=1s) I _{cw} kA 66	up to 690 V 50/60 Hz	I _{cm}	kA	145		
	Rated short-time withstand current 50/60 Hz					
t = 3 s I _{cw} kA 53	Rated short-time withstand current (t=1s)	I _{cw}	kA	66		
	t = 3 s	I _{cw}	kA	53		

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)		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		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I _n			
Withdrawable units (switch with cassette)		W	65
Weight			
Withdrawable			
4-pole		kg	76
Cassette			
4 pole		kg	35
Terminal capacities			
Copper bar			
Withdrawable units			
Black		mm	1 x 60 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	800
Equipment heat dissipation, current-dependent	P _{vid}	W	65
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: Sample system No Version as sample system No No Name, reade operation voltage Ude AC So So Rated operation power at AC-32,400 V So So Rated short-tine withstand current Liv Image: So So Number of auxiliary contacts as normally closed contact Image: So So Number of auxiliary contacts as normally closed contact Image: So So Number of auxiliary contacts as change-over contact Image: So So Notor drive intragrad Image: So So So Nord ordrive intragrad Image: So <t< th=""><th></th><th></th><th></th></t<>			
Persion as aftery witch No. No. No. Version as reversing witch No.	Version as main switch		Yes
Arrian as emergency scip installation Image: Science of Sci	Version as maintenance-/service switch		No
Arrival operation voltage Ue AC Image: Arrival operation voltage Ue AC Image: Arrival operation voltage Ue AC Rated operation voltage Ue AC Image: Arrival operation voltage Ue AC Image: Arrival operation voltage Ue AC Rated operation voltage Ue AC Image: Arrival AC Image: Arrival AC Rated operation power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Rated operation power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Rated operation power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Switching power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Switching power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Switching power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Switching power at AC-3, 400 V Image: Arrival AC Image: Arrival AC Switching power at 400 V Image: Arrival AC Image: Arrival AC Switching power at 400 V Image: Arrival AC Image: Arrival AC Switching power at 400 V Image: Arrival AC Image: Arrival AC Switching power at 400 V Image: Arrival AC Image: Arrival AC Switching power at 400 V <td>Version as safety switch</td> <td></td> <td>No</td>	Version as safety switch		No
Max rated operation voltage Us AC V 890 Rated operation voltage V 890 890 Rated operation voltage 0 800 800 Rated operation voltage Us AC 0 0 800 Rated operation yower at AC-21, 400 V A 0 0 800 Rated operation yower at AC-23, 400 V KM 0	Version as emergency stop installation		No
Rated operation yoking of diagonal status V 800-890 Rated permanent current lu A 800 Rated operation power at AC-23, 400 V KW 0 Rated operation power at AC-23, 400 V KW 0 Rated operation power at AC-23, 400 V KW 0 Switching power at AC-23, 400 V KW <td< td=""><td>Version as reversing switch</td><td></td><td>No</td></td<>	Version as reversing switch		No
Rated permanent current lu Image: Current at AC-21,400 V A 0 Rated operation power at AC-3,400 V W 0 <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-21, 400 V P <td>Rated operating voltage</td> <td>V</td> <td>690 - 690</td>	Rated operating voltage	V	690 - 690
Atted operation power at AC-3, 400 V KM 6 Rated operation power at AC-23, 400 V KM 6 Switching power at 400 V KM 0 Conditioned rated short-circuit current lq KM 4 Number of poles KM 4 Number of auxiliary contacts as normally closed contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Motor drive optional KM 0 0 Number of auxiliary contacts as normally open contact KM 0 0 Number of auxiliary contacts as normally open contact KM 0 0 0 Number of auxiliary contacts as normally open contact KM KM 0	Rated permanent current lu	А	800
Art de short-time withstand current low Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power at AC-23, 400 V Image: Source de la construction power p	Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-23, 400 V VW 0 Switching power at 400 V KW 0 Conditioned rated short-circuit current lq KW 44 Number of poles M 4 Number of auxiliary contacts as normally closed contact M 0 Number of auxiliary contacts as normally closed contact M 0 Number of auxiliary contacts as change-over contact M 0 Number of auxiliary contacts as change-over contact M Ves Number of auxiliary contacts as change-over contact M Ves Number of auxiliary contacts as change-over contact M Ves Number of auxiliary contacts as change-over contact M Ves Number of auxiliary contacts as change-over contact M Ves Number of auxiliary contacts as change-over contact M Ves Suitable for distribution board installation M Ves No Suitable for first mounting center No No No Suitable for intermediate mounting F No No Color control element Ves houtton Ves houtton Nope decenticle element	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 VKW0Conditioned rated short-circuit current IqKA144Number of poles44Number of auxiliary contacts as normally closed contactM6Number of auxiliary contacts as change-over contactM6Number of auxiliary contacts as change-over contactM6Number of auxiliary contacts as change-over contactMFNumber of auxiliary contacts as change-over contactMFNumber of auxiliary contacts as change-over contactMFNotor drive optionalMFNotor drive integratedMNoNotage release optionalMFSuitable for front mounting 4-holeMFSuitable for front mounting centerMNoSuitable for intermediate mountingMFSuitable for intermediate mounti	Rated short-time withstand current lcw	kA	66
Conditioned rated short-circuit current Iq IA Number of poles I Number of auxiliary contacts as normally closed contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Motor drive optional I Motor drive integrated I Nortage release optional I Device construction I Suitable for ground mounting I Suitable for front mounting enter I Suitable for intermediate mounting	Rated operation power at AC-23, 400 V	kW	0
Number of poles4Number 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 contact2Motor drive optionalVesMotor drive integratedNoNotage release optionalNoSuitable for ground moutingSeiSuitable for front mouting 4-holeNoSuitable for front mouting centerNoSuitable for intermediate mountingNoSuitable for intermediate mountingNo<	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 2 Number of auxiliary contacts as normally open contact 2 Motor drive optional Ves Motor drive optional No Voltage release optional Ves Device construction Seite Suitable for ground mounting 4-hole Seite Suitable for front mounting 4-hole No Suitable for intermediate mounting Seite Suitable for intermediate mounting <	Conditioned rated short-circuit current Iq	kA	144
Number of auxiliary contacts as normally open contact Image: Control open contact Control	Number of poles		4
Number of auxiliary contacts as change-over contact Image: Contact as change-over contas change-over cover contact as change-over contact as change-over	Number of auxiliary contacts as normally closed contact		0
And to drive optional Yes Motor drive integrated Yes Voltage release optional Yes Device construction Yes Suitable for ground mounting Yes Suitable for front mounting 4-hole Yes Suitable for front mounting center Yes Suitable for intermediate mounting Yes Colour control element Yes Type of control element Yes Interlockable Yes Type of electrical connection of main circuit Yes	Number of auxiliary contacts as normally open contact		0
Motor drive integrated Second drive integrate	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 4 Mode No Suitable for front mounting center No No Suitable for distribution board installation Mode No Suitable for intermediate mounting Mode No Colour control element Mode No Type of control element Mode Mode Interlockable Mode Mode Type of electrical connection of main circuit Mode Mode Mode Mode Mode <	Voltage release optional		Yes
Suitable for front mounting 4-hole No Suitable for front mounting center No Suitable for distribution board installation Version Versi	Device construction		Built-in device slide-in technique (withdrawable)
Suitable for front mounting center No Suitable for distribution board installation Yes Suitable for intermediate mounting No Colour control element Serier Type of control element Serier Interlockable Yes Type of electrical connection of main circuit Serier	Suitable for ground mounting		Yes
Suitable for distribution board installation Image: Suitable for distribution board installation Image: Suitable for distribution board installation Suitable for intermediate mounting Image: Suitable for intermediate mounting Image: Suitable for intermediate mounting Colour control element Image: Suitable for intermediate mounting Image: Suitable for intermediate mounting Type of control element Image: Suitable for intermediate mounting Image: Suitable for intermediate mounting Interlockable Image: Suitable for intermediate mounting Image: Suitable for intermediate mounting Type of electrical connection of main circuit Image: Suitable for intermediate mounting Image: Suitable for intermediate mounting	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting Mo Colour control element Green Type of control element Mo Interlockable Forse Type of electrical connection of main circuit State	Suitable for front mounting center		No
Colour control element Free Type of control element Free Interlockable Free Type of electrical connection of main circuit Free	Suitable for distribution board installation		Yes
Type of control element Push button Interlockable Ves Type of electrical connection of main circuit Image: Section Sec	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



