DATASHEET - NZMS3-4-PX630/VAR-AVE

Part no.

Catalog No.



NZM3 PXR25 circuit breaker - integrated energy measurement class 1, 630A, 4p, variable, withdrawable unit

NZMS3-4-PX630/VAR-AVE

192309



Similar to illustration

Delivery program

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Sindraft/Approval Image: Sindraft/Approval Image: Sindraft/Approval Installation type Image: Sindraft/Approval Image: Sindraft/Approval Release system Image: Sindraft/Approval Image: Sindraft/Approval Construction size Image: Sindraft/Approval Image: Sindraft/Approval Description Image: Sindraft/Approval Image: Sindraft/Approval Number of poles Image: Sindraft/Approval Image: Sindraft/Approval Number of pole Image: Sindraft/Approval Image: Sindraft/Approval Number of pole Image: Sindraft/Approval/Approval Image: Sindraft/Approval </td <td>Product range</td> <td></td> <td></td> <td>Circuit-breaker</td>	Product range			Circuit-breaker
Installation Installation Installation Release system Image: System Image: System Construction size Image: System Image: System Description Image: System Image: System Description Image: System Image: System Number of poles Image: System Image: System Standard equipment Image: System Image: System Advita System Image: System Image: System Advita S	Protective function			Systems, cable, selectivity and generator protection
Release system International size Internation	Standard/Approval			IEC
Construction size Maximum Description Very assurement, rm.s. value measurement, and "hermal memory device device for configuration and test function with Power Xper Protection With memal memory UBB interface for configuration and test function with Power Xper Protection with anager software interface mediate interface mediate interface mediate interface mediate interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU module or CAM Manager Software interface mediate with internal Modules RTU modules or CAM Manager Software interface mediate with interface mediate with internal Modules RTU modules or CAM Manager Software interface m	Installation type			Withdrawable
Description Iso are load of protection and delayed and non-delayed short-circuit protective devices as a nonry weasurement, r.m.s. value measurement, and 'thermal memory' USB interface for configuration and test function with Power Xper Protection WB magner software for and used in equipment supplied. Number of poles Iso are module in equipment supplied. Standard equipment Iso are configuration and test function with Power Xper Protection with Power Xper Protection WB magner software for configuration and test function with Power Xper Protection WB magner software for and delayed and non-delayed short-circuit protective module in equipment supplied. Switching capacity 4 pole Ado(415 V50 Hz) Iso are connection Rated current = rated uninterrupted current Iso are connection Rated current = rated uninterrupted current In = Iu A Neutral conductor Not of phase conductor % of phase conductor Overload trip Iso are conductor 630 Short-circuit releases Iso are conductor 630 Short-circuit releases Iso are conductor 52 - 630 Non-delayed Iso are conductor Setting and set function current Non-delayed Iso are conductor 2-8	Release system			Electronic release
Number of poles 4 pole Standard quijoment 4 pole Standard quijoment 4 pole Standard quijoment 5 crew connection 400/415 V 50 Hz Leu KA Rated current = rated uninterrupted current 1 = lu A Bated current = rated uninterrupted current 5 of 0 + 00 + 00 + 00 + 00 + 00 + 00 + 00	Construction size			NZM3
Standard equipment Image: Standard equipment Strew connection Switching capacity Iau Ka 400/415 V 50 Hz Iau Ka Added current = rated uninterrupted current Iau Ka Rated current = rated uninterrupted current In=Iu Ka Neutral conductor Vorf phase conductor O - 60 - 100 Setting range	Description			device Class 1 energy measurement, r.m.s. value measurement, and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Interface module in equipment supplied.
Switching capacity Icu Katel To 400/415 V 50 Hz Icu Katel To Rated current = rated uninterrupted current In = Iu A 60 Neutral conductor In = Iu A 60 - 100 Setting range Vorload trip Vorload trip Vorload trip Short-circuit releases Ir = Iu A So Non-delayed Is In x Is In x Z	Number of poles			4 pole
400/415 V 50 HzIcuKA70Rated current = rated uninterrupted currentIn = IuInInRated current = rated uninterrupted currentIn = IuA600Neutral conductorKo of phase conductorKo0 - 60 - 100Setting rangeInInInInOverload tripInInInInImage: ConductorInInInInImage: ConductorIn	Standard equipment			Screw connection
Rated current = rated uninterrupted current In = Iu A 630 Neutral conductor % of phase conductor % of phase conductor % of phase conductor % of phase conductor Overload trip In = Iu A 522 - 630 Short-circuit releases In = In x In = In x In = In x Non-delayed In = In x In = In x In = In x	Switching capacity			
Rated current = rated uninterrupted current In = Iu A 60 Neutral conductor % of phase conductor % of phase conductor % of phase conductor % of phase % of 60 - 100 Setting range Yes Yes Yes Yes Overload trip % % % Image % % % Short-circuit releases % % Image % % Non-delayed Ii = In x %	400/415 V 50 Hz	I _{cu}	kA	70
Neutral conductorNon-delayedNon-	Rated current = rated uninterrupted current			
conductor conductor Setting range conductor Overload trip r Image: Image	Rated current = rated uninterrupted current	$I_n = I_u$	А	630
Overload trip In A 252 - 630 Short-circuit releases In In In Non-delayed In In In In In In In	Neutral conductor		%	0 - 60 - 100
Image: ProblemImage: ProblemImage: ProblemImage: ProblemImage: ProblemShort-circuit releasesImage: ProblemImage: ProblemImage: ProblemNon-delayedImage: ProblemImage: Proble	Setting range			
Short-circuit releases Non-delayed Image: Constraint of the second sec	Overload trip			
Non-delayed $I_i = I_n \times$ 2–8	L	I _r	A	252 - 630
Delayed I _{sd} = I _r x 1.5 - 7	Non-delayed	I _i = I _n x		2 - 8
	Delayed	$I_{sd} = I_r x \dots$		1.5 – 7

Technical data

General		
Standards		IEC/EN 60947
Protection against direct contact		Finger and back of hand proof to VDE 0106 Part 100
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Ambient temperature, storage	°C	- 40 - + 70
Operation	°C	-25 - +70
Mechanical shock resistance (10 ms half-sinusoidal shock) according to IEC 60068-2-27	g	20 (half-sinusoidal shock 20 ms)
Safe isolation to EN 61140		

Between auxiliary contacts and main contacts		V AC	500
between the auxiliary contacts		V AC	300
Mounting position			Vertical and 90° in all directions With XFI earth-fault release: - NZM1, N1, NZM2, N2: vertical and 90° in all directions with plug-in unit - NZM1, N1, NZM2, N2: vertical, 90° right/left with withdrawable unit: - NZM3, N3: vertical, 90° right/left - NZM4, N4: vertical with remote operator: - NZM2, N(S)4: vertical and 90° in all directions
Direction of incoming supply			as required
Degree of protection			
Device			In the operating controls area: IP20 (basic degree of protection)
Enclosures			With insulating surround: IP40 With door coupling rotary handle: IP66
Terminations			Tunnel terminal: IP10 Phase isolator and strip terminal: IP00
Other technical data (sheet catalogue)			Temperature dependency, Derating
Circuit-breakers	11	٥	can
Rated current = rated uninterrupted current	$I_n = I_u$	A	630
Rated surge voltage invariability	U _{imp}	V	2000
Main contacts		V V	8000
Auxiliary contacts Rated operational voltage	Ue	V AC	6000 690
Overvoltage category/pollution degree	0 _e	VAC	11/3
Rated insulation voltage	Ui	V	690
Use in unearthed supply systems	0	v	≦ 690
Switching capacity		v	= 000
Rated short-circuit making capacity	I _{cm}		
240 V	I _{cm}	kA	220
400/415 V	I _{cm}	kA	154
440 V 50/60 Hz	I _{cm}	kA	143
525 V 50/60 Hz	I _{cm}	kA	80
690 V 50/60 H	lc	kA	50
Rated short-circuit breaking capacity I _{cn}	I _{cn}		
Icu to IEC/EN 60947 test cycle 0-t-C0	lcu	kA	
240 V 50/60 Hz	l _{cu}	kA	100
400/415 V 50/60 Hz	l _{cu}	kA	70
440 V 50/60 Hz	I _{cu}	kA	65
525 V 50/60 Hz	l _{cu}	kA	36
690 V 50/60 Hz	I _{cu}	kA	25
Ics to IEC/EN 60947 test cycle 0-t-C0-t-C0	lcs	kA	
240 V 50/60 Hz	I _{cs}	kA	100
400/415 V 50/60 Hz	I _{cs}	kA	70
440 V 50/60 Hz	I _{cs}	kA	65
525 V 50/60 Hz	I _{cs}	kA	18
690 V 50/60 Hz	I _{cs}	kA	6 Maximum back-up fuse, if the expected short-circuit currents at the installation
Rated short-time withstand current			location exceed the switching capacity of the circuit-breaker.
t = 0.3 s	I _{cw}	kA	3.3
t=1s	I _{cw}	kA	3.3
Utilization category to IEC/EN 60947-2			A
Lifespan, mechanical(of which max. 50 % trip by shunt/undervoltage release)	Operations		15000
	0,0101010		

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Box terminal Image: Marcine State Image: Marcine St				²⁾ Up to 240 mm ² can be connected depending on the cable manufacturer.
nin.	Cu strip (number of segments x width x segment thickness)			
max.	Box terminal			
Abstraction +5x24x10 (2x)8x24x10 Botterminal and rear-side connection min m Flat copper strip, with holes min m 6x16x0.8 Flat copper strip, with holes max m 0x32x1.0+5x32x1.0 Connection width extension max m (2x) 10x50x1.0 Copper busbar (width x thickness) mm 2x) 10x50x1.0 Botterminal and rear-side connection mm M Screw connection mm M Direct on the switch min m Interminal and rear-side connection min m Screw connection mm M Screw connection min mm Interminal and rear-side connection min M Screw connection min m Mo Interminal and rear-side connection min Screw connection Screw connection Interminal and rear-side connection min m Screw connection Screw connection Interminal and rear-side connection min min Screw connection Screw connection Screw connection Interminal and rear-side c		min.	mm	6 x 16 x 0.8
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Connection width extension max. mm 2 x (10 x 50)				
Connection width extension max. mm 2 x (10 x 50)		max.		
			mm	
Control cables	Connection width extension	max.	mm	2 x (10 x 50)
	Control cables			

mm² 1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	630
Equipment heat dissipation, current-dependent	P _{vid}	W	119.07
Operating ambient temperature min.	via	°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification		U U	
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

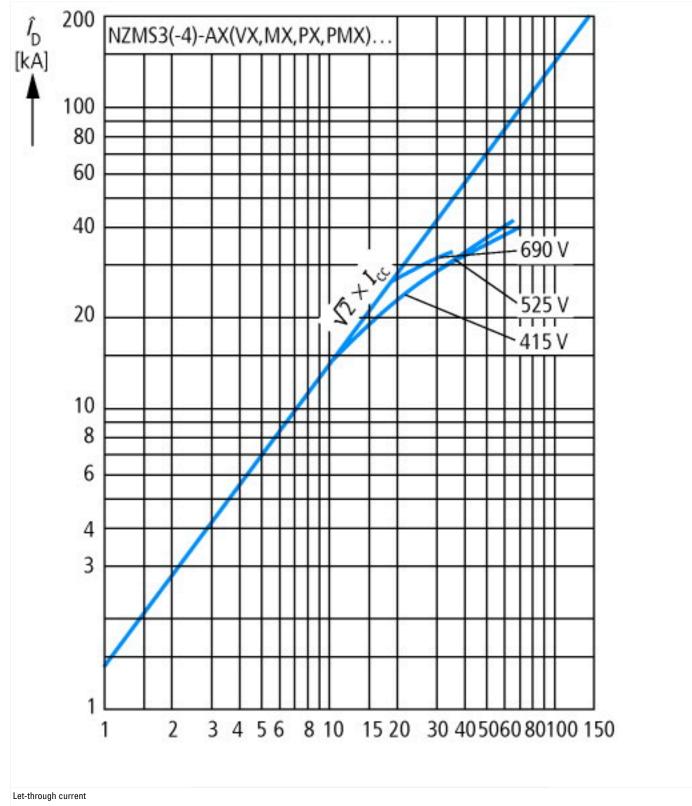
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

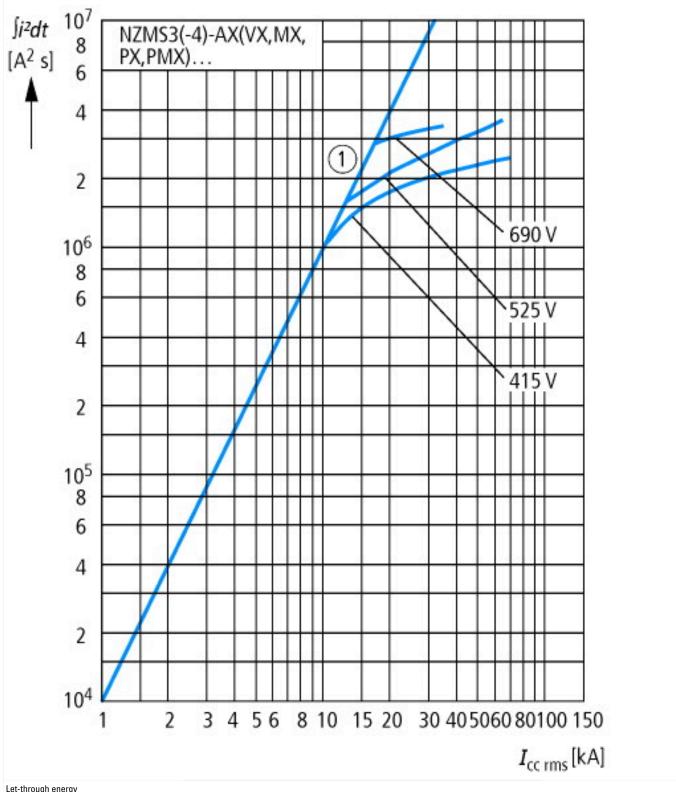
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

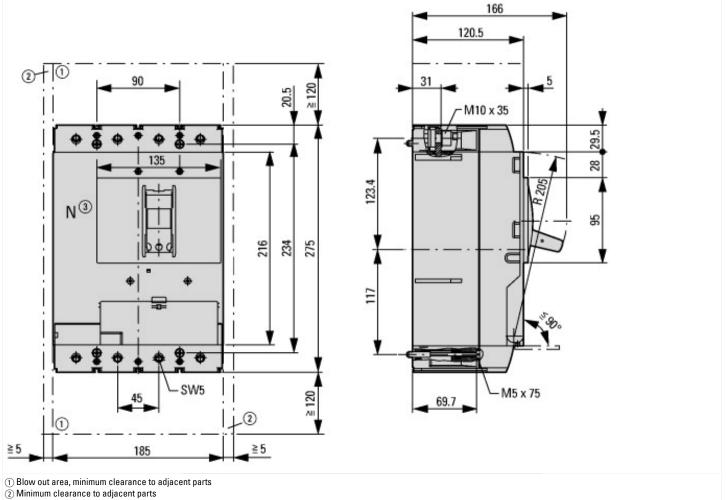
Rated permanent current lu	А	630
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	70
Overload release current setting	А	252 - 630
Adjustment range short-term delayed short-circuit release	А	1.5 - 7
Adjustment range undelayed short-circuit release	А	2 - 8
Integrated earth fault protection		No
Type of electrical connection of main circuit		Other
Device construction		Built-in device slide-in technique (withdrawable)
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		0
With switched-off indicator		No

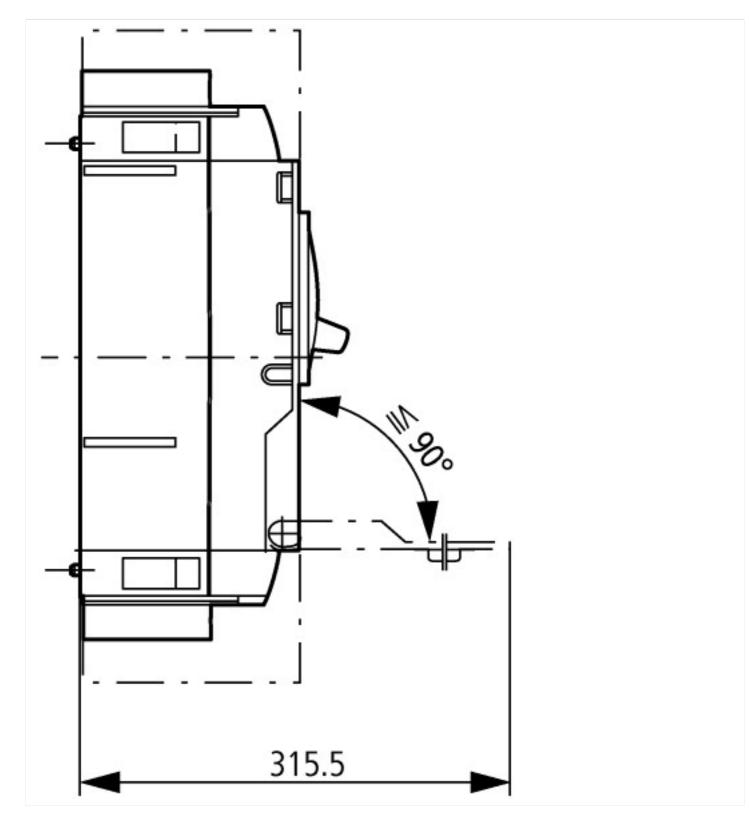
With under voltage release	No
Number of poles	4
Position of connection for main current circuit	Connection at separate chassis part
Type of control element	Rocker lever
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	Yes
Degree of protection (IP)	IP20

Characteristics









Additional product information (links)

IL012100ZU NZM3-PXR circuit-breaker, basic device , NZM3-PXR Circuit-Breaker, basic unit

IL012100ZU NZM3-PXR circuit-breaker, basic device , NZM3-PXR Circuit-Breaker, basic unit	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL012100ZU2020_10.pdf
Temperature dependency, Derating	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.172
additional technical information for NZM power switch	https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf