DATASHEET - DX-LN3-080



Main choke, three-phase, 550 V + 0% (50/60 Hz), V AC, 80 A, 0.23 mH





Delivery program

Product range			Accessories
Accessories			Mains chokes
Description			three-phase
For use with			DA1, SVX, SPX
Max. permissible connection voltage		V AC	550 V + 0% (50/60 Hz)
Rated operational current	le	А	80
Inductance	L	mH	0.23
Maximum heat dissipation	Pv	W	86

Technical data

General			
Standards			IEC/EN 61558-2-20-2000, VDE 0570 Part 2-20/2001-04, UL, CSA
Operating temperature		°C	-25 to +40, up to 70 with current derating (see the note)
Storage temperature	θ	°C	-25 - +85
Mechanical shock resistance		g	11 ms ² /15 3 shocks
Vibration resistance		g	1 (0 - 150 Hz)
Vibration			0.35 mm at 10 - 55 Hz
Altitude		m	0 – 1000 above sea level, up to 5000 with current reduction (see notes)
Mounting position			Standing vertically, suspended horizontally
Free surrounding areas		MM	< 50
Degree of Protection			IP00 (connection lugs)
Rated duty factor		% DF	100
Weight		kg	7.3
Electrical data			
Rated operational voltage			3 AC 400 V
Max. supply voltage		V AC	550 V + 0% (50/60 Hz)
Operating frequency	f	Hz	50/60
Insulation class			В
Rated operational current	Ι _e	А	80
Inductance	L	mH	0.23
Maximum heat dissipation	Pv	W	86
Voltage sag	U _k	%	2.5
Connection			
Connection lugs			<i>J</i>
PE stud			1
Connection lug		mm ²	Cu 20 x 3
Drilling		mm	9
Tightening torque		Nm	6
Notes			

The following applies for the installation altitude: Derating with respect to the rated operational current ${\rm I}_{\rm e}:$

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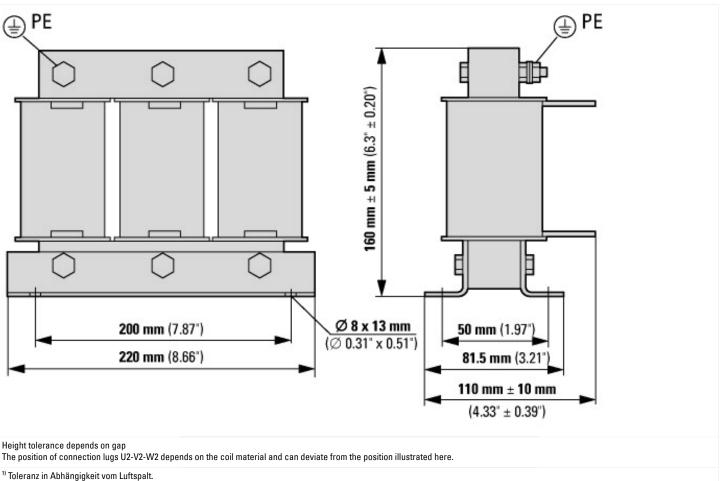
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10.6 Incorporation of switching devices and components	
10.7 Internal electrical circuits and connections Is the panel builder's responsibility.	
10.8 Connections for external conductors Is the panel builder's responsibility.	
10.9 Insulation properties	
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. Ea provide heat dissipation data for the devices.	. Eaton will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchge observed.	ıgear must be
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchge observed.	ıgear must be
10.13 Mechanical function The device meets the requirements, provided the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information in the instal 10.13 Mechanical function Image: Comparison of the information of the i	nstruction

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Coil for low-voltage (EC002563)			
Electric engineering, automation, process control engineering / Electronic coil an	d filter / Electron	ic choke o	coil / Electronic choke coil (unspecified) (ecl@ss10.0.1-27-42-01-90 [ADJ199007])
Suitable as interference suppression reactance coil			No
Suitable as net reactance coil			Yes
Suitable as commutation reactance coil			No
Suitable as ripple filter choke			No
Suitable as output reactance coil			No
Number of poles, primary side			3
Rated clock frequency		kHz	0
Rated operation frequency		Hz	50 - 60
Max. rated operation voltage Ue		V	550
Rated current at AC		А	80 - 80
Max. rated current (Ith) at rated voltage DC		А	80
Rated inductance		mH	0.23
Degree of protection (IP)			IP00
Relative short circuit voltage		%	2.5
Resonance frequency		Hz	0

Degree of protection (NEMA)	Other
Approvals	
Product Standards	UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking
UL File No.	E167225
UL Category Control No.	ΧΡΤΩ2, ΧΡΤΩ8
CSA File No.	UL report applies to both US and Canada
North America Certification	UL listed, certified by UL for use in Canada
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	1~ 240 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey), 3~ 240 V AC IEC: TN- S UL/CSA: "Y" (Solidly Grounded Wey), 3~ 480 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey)
Degree of Protection	IEC: IP00

Dimensions



The position of connection lugs U2-V2-W2 depends on the coil material and can deviate from the position illustrated here.

Additional product information (links)

CA04020001Z-EN Product Range Catalog: Efficient Engineering for Starting and Controlling Motors http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf