DATASHEET - DX-LN1-018



Main choke, Single-phase, 260 V + 0% (50/60 Hz), V AC, 18 A, 1.63 mH

Part no.	**DX-LN1-018**
Catalog No.	**269497**
Alternate Catalog No.	**DX-LN1-018**

Delivery program

Product range			Accessories
Accessories			Mains chokes
Description			Single-phase
For use with			DE1, DE11, DC1, DA1
Max. permissible connection voltage		V AC	260 V + 0% (50/60 Hz)
Rated operational current	I_e	A	18
Inductance	L	mH	1.63
Maximum heat dissipation	P_v	W	17

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			IP20 (terminal)
Rated duty factor		% DF	100
Weight		kg	1.5

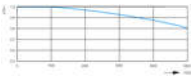
Electrical data

Rated operational voltage			1 AC 230 V
Max. supply voltage		V AC	260 V + 0% (50/60 Hz)
Operating frequency	f	Hz	50/60
Insulation class			B
Rated operational current	I_e	A	18
Inductance	L	mH	1.63
Maximum heat dissipation	P_v	W	17
Voltage sag	U_k	%	4

Connection

Terminations			✓
PE stud			✓
Terminal		mm^2	4
Terminal		AWG	20 - 10
Tightening torque		Nm	0.8

Notes

			The following applies for the installation altitude: Derating with respect to the rated operational current I_e: 

Design verification as per IEC/EN 61439

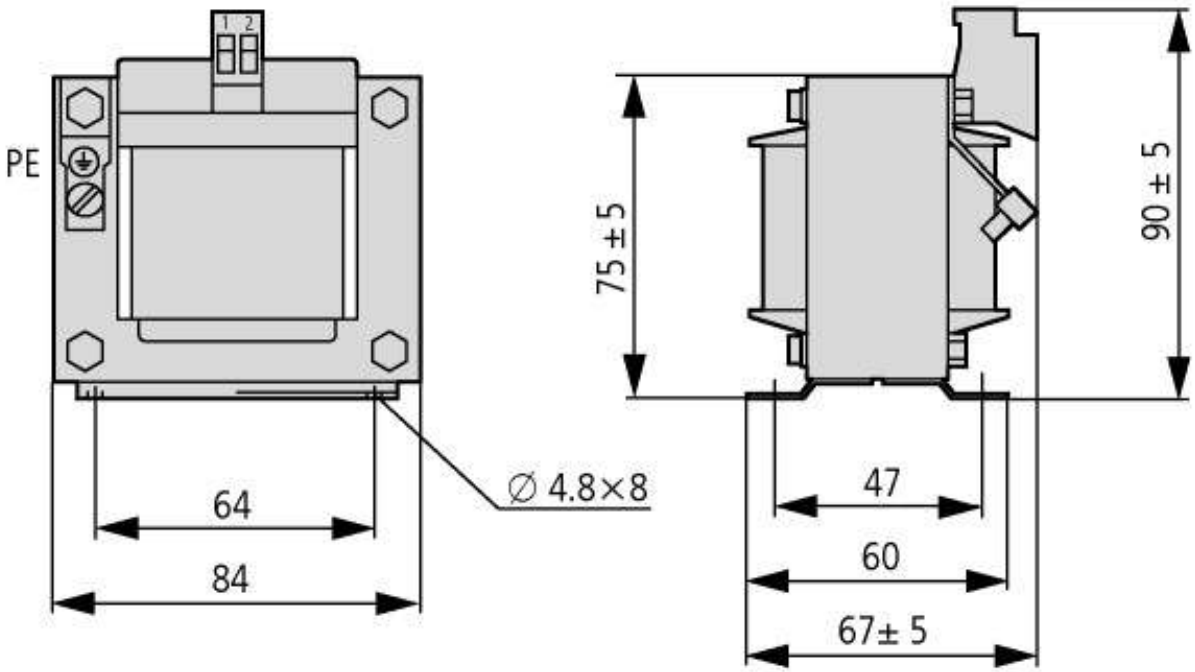
Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	18
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	17
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
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) / Coil for low-voltage (EC002563)			
Electric engineering, automation, process control engineering / Electronic coil and filter / Electronic choke 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			1
Rated clock frequency		kHz	0
Rated operation frequency		Hz	50 - 60
Max. rated operation voltage Ue		V	260
Rated current at AC		A	18 - 18
Max. rated current (Ith) at rated voltage DC		A	18
Rated inductance		mH	1.63
Degree of protection (IP)			IP20
Relative short circuit voltage		%	4
Resonance frequency		Hz	0

Degree of protection (NEMA)			Other

Dimensions



Additional product information (links)

IL00906003Z Mains chokes, motor chokes	
IL00906003Z Mains chokes, motor chokes	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL00906003Z2020_09.pdf
MN04020003Z DC1 variable frequency drives, Installation manual	
MN04020003Z Frequenzumrichter DC1, Installationshandbuch - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf
MN04020003Z DC1 variable frequency drives, Installation manual - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf
MN04020003Z Frekvenční měnič DC1, manuál Instalace - čeština	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf
MN04020003Z Convertitore di frequenza DC1, manuale Installazione - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf
MN04020005Z DA1 variable frequency drives, Installation manual	
MN04020005Z Frequenzumrichter DA1, Installationshandbuch - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf
MN04020005Z DA1 variable frequency drives, Installation manual - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf
MN04020005Z Convertitore di frequenza DA1, manuale Installazione - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.pdf
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

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