



## Mains choke (1-phase, 260V, 32A)

Part no. **DX-LN1-032**  
 Article no. **169791**  
 Catalog No. **DX-LN1-032**

### Delivery program

Product range			Accessories
Accessories			Mains chokes
Description			Single-phase
For use with			DC1
Max. permissible connection voltage		V AC	260 V + 0% (50/60 Hz)
Rated operational current	$I_e$	A	32
Inductance	L	mH	0.92
Maximum heat dissipation	$P_v$	W	24

### 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	$\theta$	°C	-25 - +85
Mechanical shock resistance		g	11 ms <sup>2</sup> /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	3

#### 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	32
Inductance	L	mH	0.92
Maximum heat dissipation	$P_v$	W	24
Voltage sag	$U_k$	%	4

#### Connection

Terminations			✓
PE stud			✓
Terminal		mm <sup>2</sup>	4
Terminal		AWG	20 - 10
Drilling		mm	0
Tightening torque		Nm	0.8

#### Notes

			<p>The following applies for the installation altitude: Derating with respect to the rated operational current <math>I_e</math>:</p>
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## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	32
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	24
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 6.0

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@ss8.1-27-42-01-90 [ADJ199004])			
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	3
Rated operation frequency		Hz	50 - 60
Max. rated operation voltage $U_e$		V	260
Rated current at AC		A	32 - 32
Max. rated current ( $I_{th}$ ) at rated voltage DC		A	0
Rated inductance		mH	0.92
Degree of protection (IP)			IP20
Relative short circuit voltage		%	0
Resonance frequency		Hz	0

## Additional product information (links)

<b>IL00906001Z Mains chokes, motor chokes</b>	
IL00906001Z Mains chokes, motor chokes	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL00906003Z2012_10.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL00906003Z2012_10.pdf</a>
<b>MN04020003Z DC1 variable frequency drives, Installation manual</b>	
MN04020003Z Frequenzumrichter DC1, Handbuch - Deutsch	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf</a>
MN04020003Z DC1 variable frequency drive, manual - English	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf</a>
MN04020003Z Frekvenční měnič DC1, manuál - čeština	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf</a>
MN04020003Z Convertitori di frequenza DC1, manuale - italiano	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf</a>
<b>MN04020005Z DA1 variable frequency drives, Installation manual</b>	
MN04020005Z Frequenzumrichter DA1, Handbuch - Deutsch	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf</a>
MN04020005Z DA1 variable frequency drive, manual - English	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf</a>
CA04020001Z-DE Sortimentkatalog: Antriebstechnik effizient gestalten, Motoren starten und steuern	<a href="http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238_de.pdf">http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238_de.pdf</a>