

Main choke, AC, 3p, 25A, 1.18mH, 550V50/60Hz

Part no.DX-LN3-025Article no.269504Catalog No.DX-LN3-025



#### **Delivery program**

Product range			Accessories
Accessories			Mains chokes
Description			three-phase
For use with			DC1, DA1, SVX, SPX
Max. permissible connection voltage		V AC	550 V + 0% (50/60 Hz)
Rated operational current	l <sub>e</sub>	А	25
Inductance	L	mH	1.18
Maximum heat dissipation	Pv	W	57

# **Technical data**

Performant       PC       25 to +40, up to 70 with current denting (see the nois)         Storage temperature       8       %C       25 + 45         Machanical shock resistance       9       11 m²/15       3anot 10         With atom resistance       10       10 + 10 + 10       3anot 10 + 55 + 12         Mathain position       10       10 + 10 + 10       3anot 10 + 55 + 12         Attrude       10       10 + 10 + 10       3anot 10 + 55 + 12         Mounting position       10       10 + 100 + 2000 with current reduction (see notes)         Prese arronding areas       10       100 + 2000 with current reduction (see notes)         Read dury factor       10       120 (seminal)         Weight       10       100 - 2000 with current reduction (see notes)         Machadory factor       100       120 (seminal)         Notes and sperifical durature       120 (seminal)       120 (sem	General			
Kingenerature       Kingenerature       Kingenerature       Constrained       Constrained       Standing         Machanical shock resistance       Imm2 <sup>2</sup> /15 3 shocks       Standing       Imm2 <sup>2</sup> /15 3 shocks         Varaton resistance       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Varaton resistance       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Varaton resistance       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Varaton resistance       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Maturing position       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Maturing position       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks       Imm2 <sup>2</sup> /15 3 shocks         Read dury factor       Imm2 <sup>2</sup> /15 100       Imm2 <sup>2</sup> /15 100       Imm2 <sup>2</sup> /15 100       Imm2 <sup>2</sup> /15 100         Read dury factor       Imm2 <sup>2</sup> /15 100         Insulation class       Imm2 <sup>2</sup> /15 100         Inductane       Imm2 <sup>2</sup> /15 100       Imm	Standards			IEC/EN 61558-2-20-2000, VDE 0570 Part 2-20/2001-04, UL, CSA
Activation       Image of the sensitivation       Image of the sensitivation         When the sensitivation       Image of the sensitivation       Image of the sensitivation         What we sensitivation       Image of the sensitivation       Image of the sensitivation         Additude       Image of the sensitivation       Image of the sensitivation         Additude       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor       Image of the sensitivation       Image of the sensitivation         Additude dury factor <td>Operating temperature</td> <td></td> <td>°C</td> <td>-25 to +40, up to 70 with current derating (see the note)</td>	Operating temperature		°C	-25 to +40, up to 70 with current derating (see the note)
Vibration resistance   g   10 - 150 Hz)     Vibration   G   0.55 Hz     Atitude   G   0.000 above seal evel, up to 5000 with current reduction (see notes)     Atitude   G   0.0000 above seal evel, up to 5000 with current reduction (see notes)     Standing resistance   Standing resistance   Standing resistance     Degree of Protection   G   90   90     Bated duf store   P20 (terminal)   P20 (terminal)     Bated duf store   % DF   10     Degree of Protection   Ka   3C 400 V     Bated duf store   Store   Store     Bated duf store   Store   Store     Degree of Protection   Vibrage   Store     Maxis supply voltage   Vibrage   Store     Degree of Protection   Vibrage   Store     Bated duf store   Store   Store     Bated duf store   Vibrage   Store     Degree of Protection   Vibrage   Store     Bated duf store   Store   Store     Bated duf store   Store   Store     Inductance   I   Maximum heat dissipation   I     Voltage sag   I   Store   Store     Connection   I   I   I <t< td=""><td>Storage temperature</td><td>θ</td><td>°C</td><td>-25 - +85</td></t<>	Storage temperature	θ	°C	-25 - +85
Niration       Sim at 10 - 55 Hz         Altidué       0       0.000 abox sea level, up to 5000 with current reduction (see notes)         Mounting position       Standing vertically, suspended horizontally         Free surrounding areas       MM       \$0         Degree of Protection       P20 (terminal)         Rated dury factor       SDF       10         Weight       SO       SO V         Rated operational voltage       SO       SO V         Mass supply voltage       VAC       SO V         Insulation class       SO       SO V         Rated operational voltage       VAC       SO V         Nation protection       VAC       SO V         Insulation class       I       SO SO V         Rated operational voltage       VAC       SO SO V         Notage seg       VAC       SO SO V         Rated operational voltage       I       SO SO V         Notage seg       VAC       SO SO V         Rated operational voltage seg       I       SO SO V         Notage seg       I       SO SO V         Connection       I       I         Terminal       I </td <td>Mechanical shock resistance</td> <td></td> <td>g</td> <td></td>	Mechanical shock resistance		g	
Altrude   n   0   0   000 robote sea level, up to 5000 with current reduction (see notes)     Munting position   Mod   stading vertically, suspended horizontally     Degree of Protection   Md   <0	Vibration resistance		g	1 (0 - 150 Hz)
Munting position       Image: Munting position       Standing vertically, suspended horizontally         Free surrounding areas       MM       \$0         Degree of Protection       P20 (terminal)         Rated dury factor       K0 F       100         Weight       K0 F       3C400 V         Electrical data       Standing vertically, suspended horizontally         Electrical data       Standing vertically       3C400 V         Electrical data       VAC       50 (400 V)         Max. supply voltage       VAC       50 (400 V)         Operational requency       Image: Marking	Vibration			0.35 mm at 10 - 55 Hz
Free surrounding areas       Image       MM       Solution         Degree of Protection       MM       Solution       P20 (terminal)         Rated duty factor       K       M       Solution         Weight       K       M       Solution         Electrical data       K       M       Solution         Electrical data       K       MA       Solution         Electrical data       K       Solution       Solution         Max supply voltage       VA       Solution       Solution         Operating frequency       Image       Ma       Solution       Solution         Insulation class       Image       M       Solution       Solution       Solution         Inductance       Image       M       Solution	Altitude		m	0 – 1000 above sea level, up to 5000 with current reduction (see notes)
Degree of Protection       Page       Page (neminal)         Rated duty factor       % DF       10         Weight       Ka       38         Electrical data       Ka       YA         Electrical data       YA       S0400 V         Max. supply voltage       YA       S050 V+0% (50/60 Hz)         Insulation class       YA       S0400 V         Insulation class       YA       S0400 V         Inductance       YA       S0400 V         Inductance       YA       S0400 V         Inductance       YA       S0400 V         Inductance       YA       S0400 V         Voltage sag       YA       S0400 V         Connection       YA       YA         Pe stud       YA       S0400 V         Pe stud       YA       YA         Forminations       YA       YA         Pe stud       YA       YA         Terminations       YA       YA         Terminations       YA       YA         Terminations       YA       YA         Terminaticon       YA       YA    <	Mounting position			Standing vertically, suspended horizontally
Rededuty factor% DF% DF% DFWeightkgkgBededuty factorkgkgElectrical datakgkgStated operational voltagekgkgMax supply totagekgkgOperating fraguencykgkgInsulation classkgkgRated operational currentkgkgMaximun head dissipationkgkgConnectionkgkgConnectionkgkgPer suddkgkgPer suddkgkg <td>Free surrounding areas</td> <td></td> <td>MM</td> <td>&lt; 50</td>	Free surrounding areas		MM	< 50
Weight WeightImage: Method Method <td>Degree of Protection</td> <td></td> <td></td> <td>IP20 (terminal)</td>	Degree of Protection			IP20 (terminal)
Electrical data       SA C400 V         Max.supply voltage       VAC       50 V + 0% (50/60 Hz)         Operating frequency       f       Hz       50/00         Insulation class       Image: Maxed operational current       Reted operational current	Rated duty factor		% DF	100
Rated operational voltage   Image: Rated operational voltage   VAC   SAC 400 V     Operating frequency   F   VAC   Six V > 0% (Six 060 Hz)     Insulation class   Image: Rated operational current	Weight		kg	4.8
Max.supplyoltageVACVACS0V + 0% (50/60 H2)Operating frequencyfH2S/60Insulation classIIIRated operational currentIISInductanceLMH18InductanceVMIVoltage sagVNIConnectionIIIPe studIIIFerminal formedIIITerminalIIITerminalIIITerminalIIITerminalIIITerminalIIITerminalIIITerminalIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Electrical data			
Operating frequencyFHz%060Insulation classHz%%Rated operational currentHeA%InductanceLMH%%Maximum heat dissipationPvW%Voltage sagV%%ConnectionFF%PestudM%%FerminationsMMm%TerminatMmMM%TerminatMm%%TerminatMMMM%TerminatMMMM%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminationMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%TerminatMM%%Terminat <t< td=""><td>Rated operational voltage</td><td></td><td></td><td>3 AC 400 V</td></t<>	Rated operational voltage			3 AC 400 V
Insulation classImage: set of the set of	Max. supply voltage		V AC	550 V + 0% (50/60 Hz)
Rated operational currentImage: Rated operational cur	Operating frequency	f	Hz	50/60
InductanceLmH18Maximum heat dissipationPvW5Voltage sagUk%4ConnectionFFFTerminationsImmaImmaImmaPE studImmaImmaImmaTerminalImma	Insulation class			В
Naximum heat dissipationPvWaSVoltage sagVk%a%aConnectionVk%a%aTerminationsFVk%aPE studManMan%aTerminalManMan%aTerminalManMan%aTerminal torqueManMan%aTightening torqueMan%a%a	Rated operational current	le	А	25
Voltage sagUk%%ConnectionTerminationsPE studTerminalTerminalTerminalTerminalTerminalTerminalMark<	Inductance	L	mH	1.18
Connection       Terminations     Image: Sector Secto	Maximum heat dissipation	Pv	W	57
Terminations   Image: Section of the s	Voltage sag	U <sub>k</sub>	%	4
PE stud   Mm <sup>2</sup> Terminal   Mm <sup>2</sup> Tightening torque   Mm	Connection			
Terminal   Mm <sup>2</sup> Terminal Terminal Terminal   MM <sup>2</sup> Terminal Tightening torque   MM     0.8	Terminations			✓
Terminal   AWG   20 - 10     Tightening torque   Nm   0.8	PE stud			✓
Tightening torque Nm 0.8	Terminal		mm <sup>2</sup>	4
	Terminal		AWG	20 - 10
Notes	Tightening torque		Nm	0.8
	Notes			

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

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### Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation	In	А	25
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	57
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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**

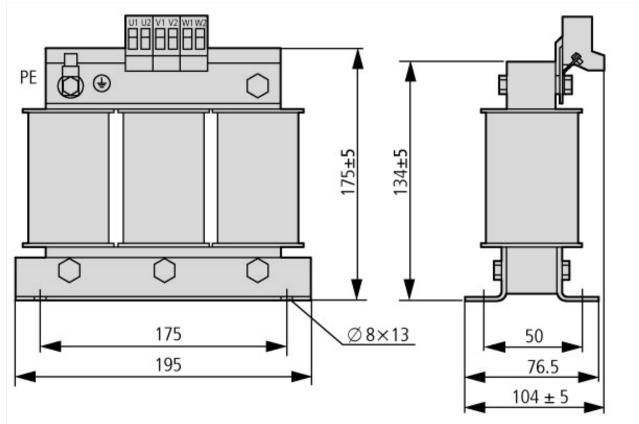
Low-voltage industrial components (EG000017) / Coil for low-voltage (EC002563)

Electric engineering, automation, process control engineering / Electronic coil and filte	er / Electronic choke o	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		3
Rated clock frequency	kHz	0
Rated operation frequency	Hz	50 - 60
Max. rated operation voltage Ue	V	550
Rated current at AC	А	25 - 25
Max. rated current (Ith) at rated voltage DC	А	25
Rated inductance	mH	1.18
Degree of protection (IP)		IP20
Relative short circuit voltage	%	4
Resonance frequency	Hz	0

# 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: IP20

## Dimensions



## Additional product information (links)

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