## DATASHEET - DX-LN3-040

## Main choke, three-phase, 550 V + 0% (50/60 Hz), V AC, 40 A, 0.64 mH



Part no.	DX-LN3-040
	269505

Product name Eace DX Mans tokie   Parts DX Mass tokie   Ports Ports   Ports	Concertance if a sticker	
Printo. PALAN 340   EVA POLSUL SUPPORT   Polaci Lagnification PE suid   Polaci Lagning Support PE suid   <	General specifications	
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SA-522 About 1   SA-522 About 1058-22-30     UL FRANCI-15922   Samples to both US and Channén Gyster 1000000000000000000000000000000000000		
Product Sype   Accessory     Product Sub Type   Mains choke     Fature Sk Functions   Fitue with:     Fature Wath:   Fitue with:     Number of phases   3     Number of phases   3     Day factor   Fitue with:     Day factor   100 %     Insulation class   100 %     Product Category   00 %     Suitable as   Soutching frequency     Used with   041 (05.5A)     Munding position   044 (05.5A)     Munding position   041 (05.5A)     Suitable as   041 (05.5A)     Suitable for   041 (05.5A)     Suitable for   041 (05.5A)     Suitable for   041 (05.5A)     Munding position   041 (05.1DMI, SPX, SVX     Abuilt conditions, mechanical   105 (05.6A)     Wurding position   Suspended honorizontal in subsection     Subcing ing mercially   Free surrounding areas > 50 min     Subcing ing mercially   Free surrounding areas > 50 min     Subsection   Subsection   Subsection     Abuint conditions   Subsection   Subsection		CSA-C22.2 No. 14 IEC/EN 61558-2-20-2000 UL File No.: E167225 UL 508C IEC/EN61800-5 UL report applies to both US and Canada CSA UL Category Control No.: XPTQ2, XPTQ8 Certified by UL for use in Canada IEC/EN61800-3 UL VDE 0570 Part 2-20/2001-04
Product Sub Type   Mains choke     Features & Functions   Features & Functions     Fitted with:   Features & Functions     Number of phases   Three-pole     Barneal information   Features & Functions     Degree of protoction   Features & Functions     Dury factor   Three-pole     Dury factor   00 %     Insultation class   8     Product Category   Accessories     Sutable as   Rare cail     Sutable as   Freat-Accessories     Sutable for   Branch circuits, (UU/CSA)     Sutable for   Fore surrounding areas > 50 mm     Sutable as   Standing vertically     Mounting position   Standing vertically     Nourding position   Standing vertically     Vibration resistance   Mains C100 m     Altitude   Max: 000 m     Antient operating temperature - max   Max: 000 m     Antient operating temperature - min   Standing temperature details		
Fettures & Functions   Pettures   Pettures     Fitted with:   Pettures   Pettures     Number of phases   S   S     Number of phases   S   Three-pole     General information   PP20   Fitted with:     Dagree of protection   PP20   PP20     Duty factor   100 %   PP20     Insulation class   B   Product Category     Suitable as   Accessories   B     Muming position   HE   PA     Muming position   Antiper vertically   Free surrounding areas > 50 mm     Vibration resistance   Solick duration: 11 ms   Solick duration: 11 ms     Vibration resistance   Solick duration: 11 ms   Solick duration: 11 ms     Altitude   Solick duration: 11 ms   Solick duration: 11 ms     Antiper storing temperature - min   Max. 3000 m   Max. 3000 m		-
Fired with:   First add Terminations     Number of phases   3     Number of phases   3     General information   10     Dury factor   120     Dury factor   120     Insulation class   6     Product Catagory   6     Suitable as   10     Suitable for   0     Suitable for   Suitable <td></td> <td>Mains choke</td>		Mains choke
Image   Terminations     Number of phases   3     Number of phases   5     Beneral information   120     Degree of protection   120     Degree of protection   120     Dury factor   10%     Insulation class   6     Product Category   6     Solitable of   10 Kacetance coil     Muming position   10 Kacetance coil     Muming position   10 Kate     Muming position   10 Kate     Muming position   10 Kate     Vibrabio resistance   10 Solek duration: 11 ms     Noter ceresistance   10 Solek duration: 11 ms     Anbient conditions   10 Solek duration: 11 ms     Anbient operating temperature - max   6   6     Anbient operating temperature - max   10 Solek duration: 11 ms     Anbient operating temperature - m	Features & Functions	
Number of poles     Three-pole       General information     P20 NEMA Other       Duty factor     00 %       Insulation class     00 %       Product Category     00 %       Suitable as     8       Product Category     Networks       Suitable for     Reach circuits, (UU/CSA)       Suitable for     0 KHz       Suitable for     0 KHz       Suitable for     0 KHz       Muming position     0 KHz       Mounting position     0 KHz       Mounting position     0 KHz       Shock resistance     Shock duration: 11 ms       Shock resistance     0 Shock duration: 11 ms       Athitude     0 C       Athitude     0 C       Athitude     0 C       Athitude     0 C       Athitude conditions     0 C       Athitude conditions merkature - max     0 C       Athitude conditions     0 C       Athitude conditions     0 C       Athitude conditions     0 C       Athitude conditions     0 C       Athituint operature - max	Fitted with:	
General information   P20     Dagree of protection   P20     Duty factor   10% %     Insulation class   0% %     Insulation class   8     Product Category   Accessories     Suitable or   Branch circuits, (UU/CSA)     Suitable for   0 KHz     Suitable for   0 KHz     Suitable for   0 KHz     Barnch circuits, (UU/CSA)   0 KHz     Water conditions, mechanical   0 KHz     Mounting position   5 Kanding vertically Free surrounding areas > 50 mm Suspended horizontally     Shock resistance   0 -150 Hz, 1 g on surrounding areas > 50 mm Suspended horizontally     Vibration resistance   0 -150 Hz, 1 g on Suspended horizontally     Anbient operating temperature - max   0 <0 C	Number of phases	3
Degree of protection     P20 KEMA Other       Duty factor     00%       Duty factor     00%       Insultion class     00%       Product Category     8       Outy factor     6       Suitable as     Reractance coil       Suitable for     Branch circuits, (UUCSA)       Suitable for     0.41z       Suitable for     0.41z       Suitable for     0.41z       Suitable for     0.41z       Bernen circuits, (UUCSA)     0.41z       Used with     0.41z       Mounting position     Standing vertically resurrounding areas > 50 mm Suspended horizontally       Shock resistance     Shock duration: 11 ms Suspended horizontally       Arbition resistance     Shock duration: 11 ms Suspended horizontally       Arbition resistance     Shock duration: 11 ms Suspended horizontally       Arbition perature nemax     Max: 0000 m/m Max: 0000 m/m Max: 0000 m/m Max: 0000 m/m Max	Number of poles	Three-pole
Ideal and the set of the set	General information	
Insulation classBProduct CategoryAccessoriesSuitable asNet reactance coilSuitable forBranch circuits, (UL/CSA)Switching frequency0 kHzUsed withDA1, DC1, DM1, SPX, SVXAmbient conditions, mechanicalEMounting positionStanding vertically Free surrounding areas > 50 mm S shock fresistanceShock resistanceStanding vertically Free surrounding areas > 50 mm S shocksVibration resistanceShock duration: 11 ms S shocksAltitude- 150 Hz, 1 g Max. 1000 m Max. 5000 m with current reductionAntibient operating temperature - max40 °C - 25 °CAmbient storage temperature - min- 25 °C - 25 °CAmbient storage temperature - min- 25 °COperating temperature - m	Degree of protection	
Product Category   Accessories     Suitable as   Net reactance coil     Suitable for   Branch circuits, (UL/CSA)     Switching frequency   OHZ     Used with   ALD C1, DM1, SPX, SVX     Ambient conditions, mechanical   Standing vertically     Mounting position   Standing vertically     Shock resistance   Standing vertically     Vibration resistance   Standing vertically     Altitude   Standing vertically     Ambient operating temperature - max   Altitude     Ambient storage temperature - min   Standing vertically     Ambient storage temperature - min   Standing vertically     Operating temperature details   Standing vertically	Duty factor	100 %
Suitable asNet reactance coilSuitable forBranch circuits, (UL/CSA)Switching frequency0.kHzUsed withDAI, DC1, DM1, SPX, SVXAmbient conditions, mechanicalStanding vertically Free surrounding areas > 50 mm Suspended horizontallyShock resistanceShock duration: 11 ms Suspended horizontallyVibration resistanceShock duration: 11 ms Suspended horizontallyClinatic environmental conditionsShock duration: 11 ms Suspended horizontallyAltitudeShock duration: 11 ms Suspended horizontallyAmbient operating temperature - maxAmbient operating temperature - maxAmbient storage temperature - maxStorage temperature - mainAmbient storage temperature - mainStorage tempera	Insulation class	В
Suitable for   Branch circuits, (UL/CSA)     Switching frequency   0.4Hz     Used with   DA1, DC1, DM1, SPX, SVX     Ambient conditions, mechanical   Standing vertically     Mounting position   Standing vertically     Shock resistance   Shock duration: 11 ms     Vibration resistance   Shock duration: 11 ms     Altitude   0.150 Hz, 1 g     Altitude   0.150 Hz, 1 g     Altitude   Max. 1000 m     Ambient operating temperature - max   40 °C     Ambient storage temperature - max   8° C     Ambient storage temperature - min   5° C     Ambient storage temperature - min	Product Category	Accessories
Switching frequency     KHz       Used with     DA1, DC1, DM1, SPX, SVX       Ambient conditions, mechanical     Standing vertically       Mounting position     Standing vertically vertically       Shock resistance     Shock duration: 11 ms Shock s       Vibration resistance     Shock duration: 11 ms Shock attractions       Attitude     -150 Hz, 1 g 0.55 Hz, 0.35 mm       Attitude     Max. 5000 m with current reduction       Ambient operating temperature - max     -25 °C       Ambient storage temperature - min     -25 °C       Ambient storage temperature - min     -25 °C       Operating temperature details     -25 °C verting current detailing	Suitable as	Net reactance coil
Used with     PA1, DC1, DM1, SPX, SVX       Ambient conditions, mechanical     Free surrounding areas > 50 mm       Mounting position     Stadding vertically Free surrounding areas > 50 mm       Shock resistance     Shock duration: 11 ms 3 shocks       Vibration resistance     Shock duration: 11 ms 3 shocks       Climatic environmental conditions     - 150 Hz, 1 g 0 - 55 Hz, 0.35 mm       Altitude     Max: 1000 m Max: 5000 m with current reduction       Anbient operating temperature - max     40 °C       Ambient storage temperature - max     60 °C       Ambient storage temperature - min     55 °C       Ambient storage temperature - min     55 °C       Operating temperature details     25 °C	Suitable for	Branch circuits, (UL/CSA)
Ambient conditions, mechanical   Image: Conditions, mechanical     Mounting position   Standing vertically Free surrounding areas > 50 mm Suspended horizontally     Shock resistance   Shock duration: 11 ms 3 shocks     Vibration resistance   Shock duration: 11 ms 3 shocks     Climatic environmental conditions   Name: Conditions     Attitude   Max. 1000 m Max. 5000 m with current reduction     Ambient operating temperature - max   Max. 1000 m Max. 5000 m with current reduction     Ambient storage temperature - max   Maxe So C     Ambient storage temperature - min   Store C     Ambient storage temperature - min   Store C     Operating temperature details   Store C	Switching frequency	0 kHz
Mounting position   Image: Source and the presistance   Shock duration: 11 ms supported horizontally su	Used with	DA1, DC1, DM1, SPX, SVX
Shock resistance   Shock duration: 11 ms     Vibration resistance   Shock duration: 11 ms     Climatic environmental conditions   0 - 150 Hz, 1 g     Altitude   Max. 1000 m     Anbient operating temperature - max   40 °C     Ambient storage temperature - min   55 °C     Ambient storage temperature - min   55 °C     Ambient storage temperature - min   55 °C     Operating temperature details   55 °C (up to 70 °C with current derating)	Ambient conditions, mechanical	
Vibration resistance   3 shocks     Vibration resistance   0 - 150 Hz, 1 g     Climatic environmental conditions   6 4 6 6 6     Altiude   Max. 1000 m     Anbient operating temperature - max   6 6 6 6     Ambient storage temperature - max   6 6 6 6     Ambient storage temperature - min   6 6 6 6     Ambient storage temperature - min   6 6 6 6     Operating temperature details   6 6 6 6	Mounting position	Free surrounding areas > 50 mm
Climatic environmental conditions   10 - 55 Hz, 0.35 mm     Altitude   Max. 1000 m     Albitude   Max. 1000 m     Ambient operating temperature - max   40 °C     Ambient storage temperature - min   55 °C     Ambient storage temperature - min   55 °C     Ambient storage temperature - min   55 °C     Operating temperature details   55 °C (up to 70 °C with current derating)	Shock resistance	
Altitude   Max. 1000 m     Ambient operating temperature - max   40 °C     Ambient operating temperature - min   5000 m     Ambient storage temperature - max   5000 m     Ambient storage temperature - max   5000 m     Ambient storage temperature - max   5000 m     Ambient storage temperature - min   5000 m     Operating temperature details   5000 m	Vibration resistance	
Max. 5000 m with current reduction   Ambient operating temperature - max 40 °C   Ambient operating temperature - min -25 °C   Ambient storage temperature - min 56 °C   Ambient storage temperature - min -25 °C   Operating temperature details 61 °C	Climatic environmental conditions	
Ambient operating temperature - min -25 °C   Ambient storage temperature - max 56 °C   Ambient storage temperature - min 56 °C   Operating temperature details 66 °C	Altitude	
Ambient storage temperature - max 85 °C   Ambient storage temperature - min -25 °C   Operating temperature details -25 - 40 °C (up to 70 °C with current derating)	Ambient operating temperature - max	40 °C
Ambient storage temperature - min -25 °C   Operating temperature details -25 - 40 °C (up to 70 °C with current derating)	Ambient operating temperature - min	-25 °C
Operating temperature details -25 - 40 °C (up to 70 °C with current derating)	Ambient storage temperature - max	85 °C
	Ambient storage temperature - min	-25 °C
Terminal capacities	Operating temperature details	-25 - 40 °C (up to 70 °C with current derating)
	Terminal capacities	

Terminal capacity	20 - 6 AWG 10 mm <sup>2</sup>
Tightening torque	1.5 Nm, Screw terminals
Electrical rating	
Permissible connection voltage	Max. 550 V AC (50/60 Hz)
Rated current (Ith) at rated voltage DC - max	40 A
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated inductance	0.46 mH
Rated operational current (le) - min	40 A
Rated operational current (le) - max	40 A
Rated operational voltage (Ue) - max	550 V
Relative short-circuit voltage	2.5 %
Voltage rating - max	480 V
Voltage sag Uk	2.5 %
Design verification	
Heat dissipation capacity Pdiss	0 W
Rated operational current for specified heat dissipation (In)	40 A
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0**

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@ss13-27-42-01-90 [ADJ199012])				
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 operating frequency		Hz	50 - 60	
Max. rated operation voltage Ue		V	550	
Rated current AC		А	40 - 40	

Max. rated current (Ith) at rated voltage DC	А	40
Rated inductance	mH	0.46
Degree of protection (IP)		IP20
Relative short circuit voltage	%	2.5
Resonance frequency	Hz	0
Degree of protection (NEMA)		Other