

OVERVIEW

LINE REACTORS

	Type	Rated input voltage	Voltage drop	Rated current																	
AC 1-phase	NKE	230 or 400 V	4 % uk		4 A	6 A		10 A	16 A	20 A	25 A										
AC 3-phase	LR3	3 x 400 – 500 V	3-5 % uk	2 A	4 A	6 A	8 A	10 A	16 A	20 A	25 A	30 A	35 A	40 A	45 A	50 A	63 A	70 A	80 A	90 A	
	LR3A	3 x 400 V	3-5 % uk																	90 A	

Line reactor, single-phase NKE 230 / 400



General Data

Rated voltage 230 or 400 Vac
Rated current 4 - 25 A
Inductance 1.170 - 12.750 mH
Insulation class B
Ambient temperature -10 °C to +40 °C
Degree of protection IP 00

Advantages

Use as line reactor, commutating reactor or PFC reactor
Power harmonic damping
Starting current limitation
Increases the service life of consumers
Low ripple
Very good corrosion protection and low noise thanks to vacuum impregnation
Bridging voltage dips
Peak current limitation

Applications

Line reactor to minimise mains pollution, to reduce the reactive-power components and charging currents in the DC link capacitor and to improve the $\cos(\phi)$.

Standards

Line- and commutation reactor to
DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

Approvals



UL 506, CSA 22.2



Line reactor, single-phase

NKE 230 / 400



Electrical data	Typ	NKE 4/7,33	NKE 4/12,75	NKE 6/4,88	NKE 6/8,50	NKE 10/2,93	NKE 10/5,10
	Operating data						
	Rated voltage	230 Vac	400 Vac	230 Vac	400 Vac	230 Vac	400 Vac
	Voltage drop	9.2 Vac	16 Vac	9.2 Vac	16 Vac	9.2 Vac	16 Vac
	Rated current	4 A	4 A	6 A	6 A	10 A	10 A
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
	Inductance	7.330 mH	12.750 mH	4.880 mH	8.500 mH	2.930 mH	5.100 mH
	Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	Environment						
	Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
	Type of cooling	AN	AN	AN	AN	AN	AN
	Safety and protection						
	Type	Open type	Open type	Open type	Open type	Open type	Open type
	Insulation class	B	B	B	B	B	B
	Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
	Safety class (prepared)	I	I	I	I	I	I
	Test voltage	2500 Vac	2500 Vac	2500 Vac	2500 Vac	2500 Vac	2500 Vac
	Order numbers						
	Order Number	NKE 4/7,33	NKE 4/12,75	NKE 6/4,88	NKE 6/8,50	NKE 10/2,93	NKE 10/5,10

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Line reactor, single-phase

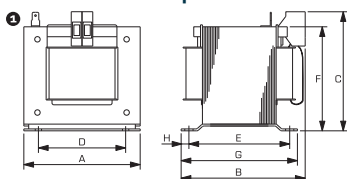
NKE 230 / 400



Typ	NKE 16/1,83	NKE 16/3,19	NKE 20/1,47	NKE 20/2,55	NKE 25/1,17	NKE 25/2,04
Electrical data						
Operating data						
Rated voltage	230 Vac	400 Vac	230 Vac	400 Vac	230 Vac	400 Vac
Voltage drop	9.2 Vac	16 Vac	9.2 Vac	16 Vac	9.2 Vac	16 Vac
Rated current	16 A	16 A	20 A	20 A	25 A	25 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	1.830 mH	3.190 mH	1.470 mH	2.550 mH	1.170 mH	2.040 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	B	B	B	B	B	B
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	2500 Vac	2500 Vac	2500 Vac	2500 Vac	2500 Vac	2500 Vac
Order numbers						
Order Number	NKE 16/1,83	NKE 16/3,19	NKE 20/1,47	NKE 20/2,55	NKE 25/1,17	NKE 25/2,04

Mechanical data													
Typ	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G
NKE 4/7,33	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.6 kg	1	60	66	68	44	39	56	50
NKE 4/12,75	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.6 kg	2	60	66	68	44	39	56	50
NKE 6/4,88	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.6 kg	3	60	66	68	44	39	56	50
NKE 6/8,50	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	4	84	78	96	64	52	76	64
NKE 10/2,93	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	5	84	78	96	64	52	76	64
NKE 10/5,10	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	6	84	78	96	64	52	76	64
NKE 16/1,83	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	7	84	78	96	64	52	76	64
NKE 16/3,19	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	2.2 kg	8	96	88	110	84	65	86	81
NKE 20/1,47	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	9	84	87	96	64	52	76	64
NKE 20/2,55	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	4.2 kg	10	120	110	130	90	75	116	93
NKE 25/1,17	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.4 kg	11	84	87	96	64	52	76	64
NKE 25/2,04	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	4.2 kg	12	120	110	130	90	75	116	93

Dimension pictures



Line reactor, three-phase **LR3 400**



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General Data

Rated voltage 3 x 400 Vac
Short-circuit voltage (uK) 3 - 5 %
Rated current 3 x 2 - 3 x 1600 A
Inductance 0.019 - 14.700 mH
Insulation class B, F or H
Ambient temperature -10 °C to +40 °C
Degree of protection IP 00

Advantages

Use as line reactor, commutating reactor or PFC reactor
Ensuring the short-circuit voltage of 3, 4 or 5 % to the mains
Power harmonic damping
Starting current limitation
Increases the service life of consumers
Low ripple
Bridging voltage dips
Peak current limitation
Very good corrosion protection and low noise thanks to vacuum impregnation
Integrated lifting rings
Multifunctional fixing rails

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Applications

Line reactor to minimise mains pollution, to reduce the reactive-power components and charging currents in the DC link capacitor and to improve the cos(phi).

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Standards

Line- and commutation reactor to
DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

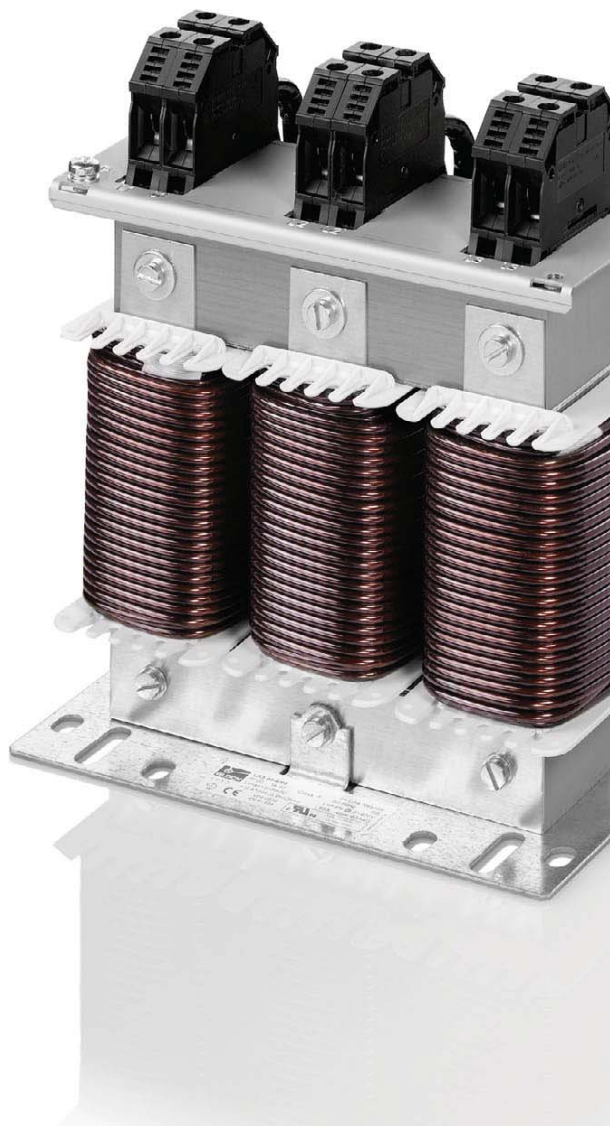
Approvals



UL 506, CSA 22.2

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Line reactor, three-phase LR3 400



Typ	LR3 40-3/2	LR3 40-4/2	LR3 40-5/2	LR3 40-3/4	LR3 40-4/4	LR3 40-5/4
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac @ 400 Vac	11.6 Vac @ 400 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 2 A	3 x 2 A	3 x 2 A	3 x 4 A	3 x 4 A	3 x 4 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	11.000 mH	14.700 mH	18.500 mH	5.500 mH	7.350 mH	9.200 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/2	LR3 40-4/2	LR3 40-5/2	LR3 40-3/4	LR3 40-4/4	LR3 40-5/4

Typ	LR3 40-3/6	LR3 40-4/6	LR3 40-5/6	LR3 40-3/8	LR3 40-4/8	LR3 40-5/8
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 6 A	3 x 6 A	3 x 6 A	3 x 8 A	3 x 8 A	3 x 8 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	3.700 mH	4.900 mH	6.200 mH	2.750 mH	3.680 mH	4.600 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=B, UL=class 130	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/6	LR3 40-4/6	LR3 40-5/6	LR3 40-3/8	LR3 40-4/8	LR3 40-5/8



Line reactor, three-phase LR3 400



Typ	LR3 40-3/10	LR3 40-4/10	LR3 40-5/10	LR3 40-3/16	LR3 40-4/16	LR3 40-5/16
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 10 A	3 x 10 A	3 x 10 A	3 x 16 A	3 x 16 A	3 x 16 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	2.200 mH	2.940 mH	3.680 mH	1.380 mH	1.840 mH	2.300 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/10	LR3 40-4/10	LR3 40-5/10	LR3 40-3/16	LR3 40-4/16	LR3 40-5/16

Typ	LR3 40-3/20	LR3 40-4/20	LR3 40-5/20	LR3 40-3/25	LR3 40-4/25	LR3 40-5/25
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 20 A	3 x 20 A	3 x 20 A	3 x 25 A	3 x 25 A	3 x 25 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	1.100 mH	1.470 mH	1.840 mH	0.880 mH	1.180 mH	1.470 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/20	LR3 40-4/20	LR3 40-5/20	LR3 40-3/25	LR3 40-4/25	LR3 40-5/25



Line reactor, three-phase LR3 400



Typ	LR3 40-3/30	LR3 40-4/30	LR3 40-5/30	LR3 40-3/35	LR3 40-4/35	LR3 40-5/35
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 30 A	3 x 30 A	3 x 30 A	3 x 35 A	3 x 35 A	3 x 35 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.740 mH	0.980 mH	1.230 mH	0.630 mH	0.840 mH	1.050 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/30	LR3 40-4/30	LR3 40-5/30	LR3 40-3/35	LR3 40-4/35	LR3 40-5/35

Typ	LR3 40-3/40	LR3 40-4/40	LR3 40-5/40	LR3 40-3/45	LR3 40-4/45	LR3 40-5/45
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 40 A	3 x 40 A	3 x 40 A	3 x 45 A	3 x 45 A	3 x 45 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.550 mH	0.740 mH	0.920 mH	0.490 mH	0.650 mH	0.817 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/40	LR3 40-4/40	LR3 40-5/40	LR3 40-3/45	LR3 40-4/45	LR3 40-5/45



Line reactor, three-phase LR3 400



Typ	LR3 40-3/50	LR3 40-4/50	LR3 40-5/50	LR3 40-3/63	LR3 40-4/63	LR3 40-5/63
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 50 A	3 x 50 A	3 x 50 A	3 x 63 A	3 x 63 A	3 x 63 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.440 mH	0.590 mH	0.735 mH	0.350 mH	0.470 mH	0.584 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/50	LR3 40-4/50	LR3 40-5/50	LR3 40-3/63	LR3 40-4/63	LR3 40-5/63

Typ	LR3 40-3/70	LR3 40-4/70	LR3 40-5/70	LR3 40-3/80	LR3 40-4/80	LR3 40-5/80
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 70 A	3 x 70 A	3 x 70 A	3 x 80 A	3 x 80 A	3 x 80 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.315 mH	0.420 mH	0.525 mH	0.270 mH	0.370 mH	0.460 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/70	LR3 40-4/70	LR3 40-5/70	LR3 40-3/80	LR3 40-4/80	LR3 40-5/80



Line reactor, three-phase LR3 400



Typ	LR3 40-3/90	LR3 40-4/90	LR3 40-5/90	LR3 40-3/100	LR3 40-4/100	LR3 40-5/100
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 90 A	3 x 90 A	3 x 90 A	3 x 100 A	3 x 100 A	3 x 100 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.245 mH	0.330 mH	0.408 mH	0.220 mH	0.300 mH	0.368 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/90	LR3 40-4/90	LR3 40-5/90	LR3 40-3/100	LR3 40-4/100	LR3 40-5/100

Typ	LR3 40-3/115	LR3 40-4/115	LR3 40-5/115	LR3 40-3/125	LR3 40-4/125	LR3 40-5/125
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 115 A	3 x 115 A	3 x 115 A	3 x 125 A	3 x 125 A	3 x 125 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.193 mH	0.260 mH	0.320 mH	0.177 mH	0.240 mH	0.294 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=H, UL=class 180	IEC=H, UL=class 180
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/115	LR3 40-4/115	LR3 40-5/115	LR3 40-3/125	LR3 40-4/125	LR3 40-5/125



Line reactor, three-phase LR3 400



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Typ	LR3 40-3/160	LR3 40-4/160	LR3 40-5/160	LR3 40-3/180	LR3 40-4/180	LR3 40-5/180
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 160 A	3 x 160 A	3 x 160 A	3 x 180 A	3 x 180 A	3 x 180 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.138 mH	0.190 mH	0.230 mH	0.123 mH	0.170 mH	0.204 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/160	LR3 40-4/160	LR3 40-5/160	LR3 40-3/180	LR3 40-4/180	LR3 40-5/180

Typ	LR3 40-3/200	LR3 40-4/200	LR3 40-5/200	LR3 40-3/250	LR3 40-4/250	LR3 40-5/250
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 200 A	3 x 200 A	3 x 200 A	3 x 250 A	3 x 250 A	3 x 250 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.110 mH	0.150 mH	0.184 mH	0.088 mH	0.120 mH	0.147 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=H, UL=class 180	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/200	LR3 40-4/200	LR3 40-5/200	LR3 40-3/250	LR3 40-4/250	LR3 40-5/250



Line reactor, three-phase LR3 400



Typ	LR3 40-3/300	LR3 40-4/300	LR3 40-5/300	LR3 40-3/400	LR3 40-4/400	LR3 40-5/400
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 300 A	3 x 300 A	3 x 300 A	3 x 400 A	3 x 400 A	3 x 400 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.074 mH	0.098 mH	0.123 mH	0.055 mH	0.074 mH	0.092 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=H, UL=class 180	IEC=F, UL=class 155	IEC=H, UL=class 180	IEC=F, UL=class 155	IEC=F, UL=class 155
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/300	LR3 40-4/300	LR3 40-5/300	LR3 40-3/400	LR3 40-4/400	LR3 40-5/400

Typ	LR3 40-3/500	LR3 40-4/500	LR3 40-5/500	LR3 40-3/630	LR3 40-4/630	LR3 40-5/630
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 500 A	3 x 500 A	3 x 500 A	3 x 630 A	3 x 630 A	3 x 630 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.044 mH	0.059 mH	0.074 mH	0.035 mH	0.047 mH	0.059 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=F, UL=class 155	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/500	LR3 40-4/500	LR3 40-5/500	LR3 40-3/630	LR3 40-4/630	LR3 40-5/630



Line reactor, three-phase LR3 400



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Typ	LR3 40-3/710	LR3 40-4/710	LR3 40-5/710	LR3 40-3/800	LR3 40-4/800	LR3 40-5/800
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 710 A	3 x 710 A	3 x 710 A	3 x 800 A	3 x 800 A	3 x 800 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.031 mH	0.042 mH	0.052 mH	0.028 mH	0.037 mH	0.046 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/710	LR3 40-4/710	LR3 40-5/710	LR3 40-3/800	LR3 40-4/800	LR3 40-5/800

Typ	LR3 40-3/1000	LR3 40-4/1000	LR3 40-5/1000	LR3 40-3/1200	LR3 40-4/1200	LR3 40-5/1200
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	3 x 1000 A	3 x 1000 A	3 x 1000 A	3 x 1200 A	3 x 1200 A	3 x 1200 A
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Inductance	0.022 mH	0.030 mH	0.037 mH	0.018 mH	0.025 mH	0.031 mH
Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3 40-3/1000	LR3 40-4/1000	LR3 40-5/1000	LR3 40-3/1200	LR3 40-4/1200	LR3 40-5/1200



Line reactor, three-phase LR3 400



Electrical data	Typ	LR3 40-3/1400	LR3 40-4/1400	LR3 40-5/1400	LR3 40-3/1600	LR3 40-4/1600	LR3 40-5/1600
	Operating data						
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
	Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
	Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
	Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
	Rated current	3 x 1400 A	3 x 1400 A	3 x 1400 A	3 x 1600 A	3 x 1600 A	3 x 1600 A
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
	Inductance	0.016 mH	0.021 mH	0.026 mH	0.014 mH	0.019 mH	0.023 mH
	Inductance deviation	±10%	±10%	±10%	±10%	±10%	±10%
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	Environment						
	Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
	Type of cooling	AN	AN	AN	AN	AN	AN
	Safety and protection						
	Type	Open type	Open type	Open type	Open type	Open type	Open type
	Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
	Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
	Safety class (prepared)	I	I	I	I	I	I
	Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
	Order numbers						
	Order Number	LR3 40-3/1400	LR3 40-4/1400	LR3 40-5/1400	LR3 40-3/1600	LR3 40-4/1600	LR3 40-5/1600

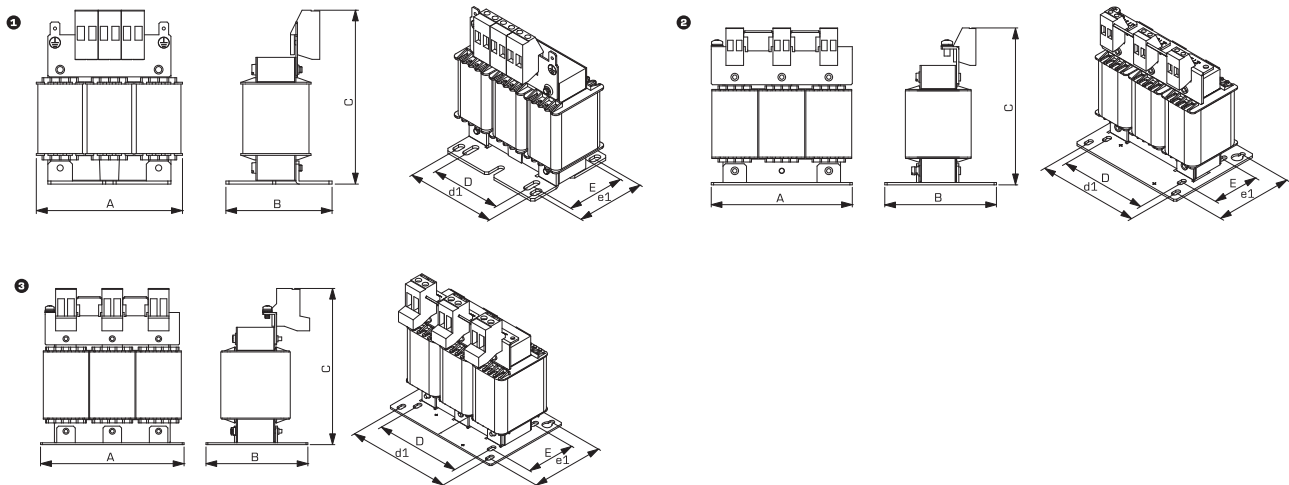


Line reactor, three-phase LR3 400



Type	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)											
							A	B	C	D	d1	d2	E	e1	e2	F	
LR3 40-3/2	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	0.53 kg	1	74	56	116	50	65	-	35	40	-	-	
LR3 40-4/2	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	0.53 kg	1	74	56	116	50	65	-	27	35	-	-	
LR3 40-5/2	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	0.53 kg	1	74	56	100	50	65	-	35	40	-	-	
LR3 40-3/4	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	0.72 kg	1	74	63	98	50	65	-	42	47	-	-	
LR3 40-4/4	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	1.31 kg	1	80	60	116	56	71	-	38	45	-	-	
LR3 40-5/4	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	1.31 kg	1	80	60	114	56	71	-	38	45	-	-	
LR3 40-3/6	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	0.94 kg	1	80	60	116	56	71	-	38	45	-	-	
LR3 40-4/6	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Fixing rail	M4	1.45 kg	1	80	69	117	56	71	-	47	54	-	-	
LR3 40-5/6	Screw clamp, 4 mm ²	for M4	Fixing rail	M4	1.39 kg	1	80	69	117	56	71	-	47	54	-	-	
LR3 40-3/8	Screw clamp, 4 mm ²	for M4	Fixing rail	M4	1.45 kg	1	80	69	117	56	71	-	47	54	-	-	
LR3 40-4/8	Screw clamp, 4 mm ²	for M5	Fixing rail	M4	1.90 kg	2	120	85	135	90	105	-	39	70	-	-	
LR3 40-5/8	Screw clamp, 4 mm ²	for M4	Fixing rail	M4	2.00 kg	2	120	85	136	90	105	-	39	70	-	-	
LR3 40-3/10	Screw clamp, 4 mm ²	for M5	Fixing rail	M4	2.00 kg	2	120	85	135	90	105	-	39	70	-	-	
LR3 40-4/10	Screw clamp, 4 mm ²	for M5	Fixing rail	M4	2.00 kg	2	120	85	135	90	105	-	39	70	-	-	
LR3 40-5/10	Screw clamp, 4 mm ²	for M4	Fixing rail	M4	2.70 kg	2	120	95	138	90	105	-	49	80	-	-	
LR3 40-3/16	Screw clamp, 4 mm ²	for M5	Fixing rail	M4	2.70 kg	2	120	95	135	90	105	-	49	80	-	-	
LR3 40-4/16	Screw clamp, 4 mm ²	for M5	Fixing rail	M4	2.70 kg	2	120	95	135	90	105	-	49	80	-	-	
LR3 40-5/16	Screw clamp, 4 mm ²	for M4	Fixing rail	M5	3.80 kg	2	155	95	163	113	135	-	50	80	-	-	
LR3 40-3/20	Screw clamp, 4 mm ²	for M5	Fixing rail	M5	3.54 kg	2	155	95	162	113	135	-	50	80	-	-	
LR3 40-4/20	Screw clamp, 4 mm ²	for M5	Fixing rail	M5	3.80 kg	2	155	95	162	113	135	-	50	80	-	-	
LR3 40-5/20	Screw clamp, 4 mm ²	for M4	Fixing rail	M5	5.34 kg	2	155	110	162	113	135	-	65	95	-	-	
LR3 40-3/25	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	3.80 kg	2	155	95	166	113	135	-	50	80	-	-	
LR3 40-4/25	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	5.80 kg	2	155	110	167	113	135	-	65	95	-	-	
LR3 40-5/25	Screw clamp, 10 mm ²	for M4	Fixing rail	M5	5.85 kg	2	155	110	166	113	135	-	65	95	-	-	
LR3 40-3/30	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	5.44 kg	2	155	110	167	113	135	-	65	95	-	-	
LR3 40-4/30	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	5.85 kg	2	155	110	167	113	135	-	65	95	-	-	
LR3 40-5/30	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	6.25 kg	2	185	102	198	90	136	-	70	83	-	-	
LR3 40-3/35	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	5.95 kg	2	155	110	167	113	135	-	65	95	-	-	
LR3 40-4/35	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	5.95 kg	2	155	110	166	113	135	-	65	95	-	-	
LR3 40-5/35	Screw clamp, 10 mm ²	for M5	Fixing rail	M5	8.25 kg	2	185	112	197	90	136	-	80	93	-	-	
LR3 40-3/40	Screw clamp, 10 mm ²	for M6	Fixing rail	M5	6.12 kg	2	185	102	195	90	136	-	83	70	-	-	
LR3 40-4/40	Screw clamp, 10 mm ²	for M6	Fixing rail	M5	6.80 kg	2	185	102	195	90	136	-	83	70	-	-	
LR3 40-5/40	Screw clamp, 10 mm ²	for M6	Fixing rail	M5	8.28 kg	2	185	112	197	90	136	-	80	93	-	-	

Dimension pictures



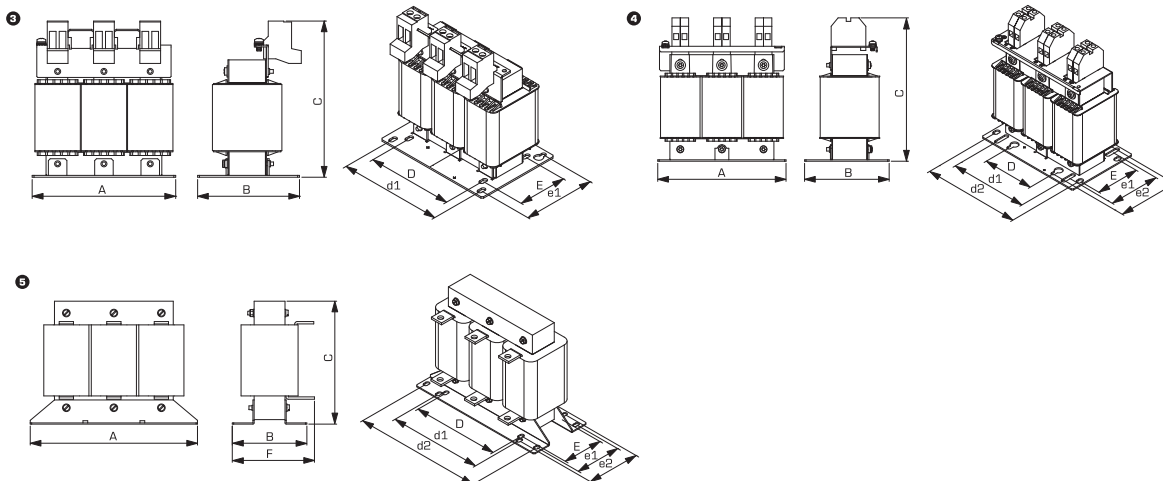


Line reactor, three-phase LR3 400



Type	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	d1	d2	E	e1	e2	F
LR3 40-3/45	Screw clamp, 10 mm ²	for M5	Fixing rail	M6	6.80 kg	3	185	102	195	90	136	-	83	70	-	-
LR3 40-4/45	Screw clamp, 10 mm ²	for M5	Fixing rail	M6	8.25 kg	3	185	112	196	90	136	170	80	93	-	-
LR3 40-5/45	Screw clamp, 10 mm ²	for M5	Fixing rail	M6	9.65 kg	3	185	122	207	90	136	-	90	103	-	-
LR3 40-3/50	Screw clamp, 16 mm ²	for M5	Fixing rail	M6	6.80 kg	4	185	102	210	90	136	170	83	70	57	-
LR3 40-4/50	Screw clamp, 10 mm ²	for M6	Fixing rail	M6	8.35 kg	4	185	112	207	90	136	170	67	80	93	-
LR3 40-5/50	Screw clamp, 35 mm ²	for M6	Fixing rail	M6	10.80 kg	3	210	117	239	105	156	-	85	98	-	-
LR3 40-3/63	Screw clamp, 16 mm ²	for M5	Fixing rail	M6	7.71 kg	4	185	112	207	90	136	170	93	80	67	-
LR3 40-4/63	Screw clamp, 16 mm ²	for M5	Fixing rail	M6	9.65 kg	4	210	117	241	105	156	175	77	85	98	-
LR3 40-5/63	Screw clamp, 35 mm ²	for M5	Fixing rail	M6	12.19 kg	3	210	125	237	105	156	-	93	106	-	-
LR3 40-3/70	Screw clamp, 16 mm ²	for M5	Fixing rail	M6	9.50 kg	4	185	122	207	90	136	170	103	90	77	-
LR3 40-4/70	Screw clamp, 35 mm ²	for M5	Fixing rail	M6	10.80 kg	4	210	117	240	98	156	175	77	88	105	-
LR3 40-5/70	Screw clamp, 35 mm ²	for M5	Fixing rail	M6	14.38 kg	3	210	135	240	180	-	-	92	-	-	-
LR3 40-3/80	Screw clamp, 35 mm ²	for M5	Fixing rail	M6	10.80 kg	4	210	117	240	105	156	175	98	85	77	-
LR3 40-4/80	Screw clamp, 35 mm ²	for M5	Fixing rail	M6	12.50 kg	4	210	125	238	105	156	175	85	93	105	-
LR3 40-5/80	Screw clamp, 35 mm ²	for M5	Fixing rail	M8	19.00 kg	3	230	149	260	176	180	-	95	122	-	-
LR3 40-3/90	Flat copper	for M8	Fixing rail	M8	12.51 kg	5	210	105	180	175	-	-	82	-	-	128
LR3 40-4/90	Flat copper	for M8	Fixing rail	M8	16.00 kg	5	267	115	201	176	180	249	74	82	101	128
LR3 40-5/90	Flat copper	for M8	Fixing rail	M8	21.66 kg	5	267	139	201	179	180	249	98	106	125	156
LR3 40-3/100	Flat copper	for M8	Fixing rail	M8	13.22 kg	5	267	115	201	176	180	249	74	82	98	128
LR3 40-4/100	Flat copper	for M8	Fixing rail	M8	19.00 kg	5	267	139	201	176	180	249	97	106	125	153
LR3 40-5/100	Flat copper	for M8	Fixing rail	M8	23.19 kg	5	291	139	212	185	273	-	110	110	-	160
LR3 40-3/115	Flat copper	for M8	Fixing rail	M8	19.00 kg	5	267	139	201	176	180	249	98	106	122	152
LR3 40-4/115	Flat copper	for M8	Fixing rail	M8	21.00 kg	5	291	139	212	185	273	-	120	120	-	158
LR3 40-5/115	Flat copper	for M8	Fixing rail	M8	25.31 kg	5	219	132	233	200	-	-	105	-	-	164
LR3 40-3/125	Flat copper	for M8	Fixing rail	M8	19.00 kg	5	267	139	202	176	180	249	98	106	122	152
LR3 40-4/125	Flat copper	for M8	Fixing rail	M8	22.00 kg	5	291	139	211	185	273	-	120	120	-	159
LR3 40-5/125	Flat copper	for M8	Fixing rail	M8	25.61 kg	5	219	132	234	200	-	-	105	-	-	165
LR3 40-3/160	Flat copper	for M8	Fixing rail	M8	20.20 kg	5	291	129	212	185	273	-	97	97	-	148
LR3 40-4/160	Flat copper	for M8	Fixing rail	M8	25.50 kg	5	291	149	210	185	273	-	185	185	-	169
LR3 40-5/160	Flat copper	for M8	Fixing rail	M8	32.00 kg	5	352	144	264	224	240	328	88	107	123	166
LR3 40-3/180	Flat copper	for M8	Fixing rail	M8	26.47 kg	5	291	149	208	185	273	-	117	117	-	169
LR3 40-4/180	Flat copper	for M8	Fixing rail	M8	28.00 kg	5	291	153	212	185	273	-	123	123	-	177
LR3 40-5/180	Flat copper	for M8	Fixing rail	M8	48.28 kg	5	352	168	265	224	240	328	122	132	148	208

Dimension pictures



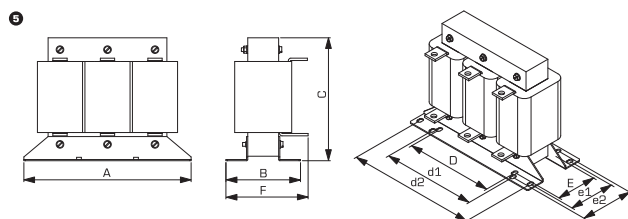


Line reactor, three-phase LR3 400



Mechanical data	Type	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	d1	d2	E	e1	e2	F
	LR3 40-3/200	Flat copper	for M8	Fixing rail	M8	23.21 kg		316	164	232	200	215	292	105	102	101	181
	LR3 40-4/200	Flat copper	for M8	Fixing rail	M8	32.00 kg		352	144	264	224	240	328	97	107	123	163
	LR3 40-5/200	Flat copper	for M8	Fixing rail	M8	48.00 kg		352	168	265	224	240	328	122	132	148	204
	LR3 40-3/250	Flat copper	for M8	Fixing rail	M8	32.00 kg		352	144	264	224	240	328	81	91	107	162
	LR3 40-4/250	Flat copper	for M8	Fixing rail	M8	41.00 kg		352	158	265	224	240	328	110	120	136	177
	LR3 40-5/250	Flat copper	for M8	Fixing rail	M8	48.58 kg		352	183	266	224	240	328	137	147	163	217
	LR3 40-3/300	Flat copper	for M8	Fixing rail	M8	31.80 kg		352	144	264	224	240	328	81	97	107	183
	LR3 40-4/300	Flat copper	for M8	Fixing rail	M8	48.00 kg		352	168	265	224	240	328	127	131	147	207
	LR3 40-5/300	Flat copper	for M8	Fixing rail	M8	62.00 kg		352	195	266	224	240	328	148	158	174	232
	LR3 40-3/400	Flat copper	for M8	Fixing rail	M8	41.50 kg		352	157	265	224	240	328	104	110	120	197
	LR3 40-4/400	Flat copper	for M8	Fixing rail	M8	56.00 kg		352	183	266	224	240	328	136	146	162	220
	LR3 40-5/400	Flat copper	for M8	Fixing rail	M8	71.73 kg		412	172	318	264	310	388	136	146	146	202
	LR3 40-3/500	Flat copper	for M8	Fixing rail	M8	56.00 kg		352	184	265	224	240	328	120	136	146	217
	LR3 40-4/500	Flat copper	for M8	Fixing rail	M8	62.00 kg		352	195	266	224	240	328	147	157	173	232
	LR3 40-5/500	Flat copper	for M8	Fixing rail	M8	74.35 kg		412	172	318	264	310	388	136	146	146	203
	LR3 40-3/630	Flat copper	for M8	Fixing rail	M8	60.53 kg		412	170	315	264	310	388	134	134	124	200
	LR3 40-4/630	Flat copper	for M8	Fixing rail	M8	75.50 kg		412	188	317	264	310	388	151	161	161	214
	LR3 40-5/630	Flat copper	for M8	Fixing rail	M8	85.75 kg		480	155	372	316	370	450	129	139	147	205
	LR3 40-3/710	Flat copper	for M8	Fixing rail	M8	73.15 kg		412	188	317	264	310	388	149	149	139	209
	LR3 40-4/710	Flat copper	for M8	Fixing rail	M10	102.00 kg		480	186	372	316	371	450	139	149	157	226
	LR3 40-5/710	Flat copper	for M8	Fixing rail	M10	98.69 kg		480	165	372	316	370	450	139	149	157	215
	LR3 40-3/800	Flat copper	for M8	Fixing rail	M10	102.00 kg		480	183	377	316	370	450	140	150	158	226
	LR3 40-4/800	Flat copper	for M8	Fixing rail	M10	115.00 kg		480	200	371	316	370	450	154	164	172	241
	LR3 40-5/800	Flat copper	for M16	Fixing rail	M10	144.07 kg		552	217	419	356	430	516	161	163	189	308
	LR3 40-3/1000	Flat copper	for M16	Fixing rail	M10	115.00 kg		480	200	376	316	370	450	144	164	172	238
	LR3 40-4/1000	Flat copper	for M16	Fixing rail	M10	145.00 kg		480	245	376	316	370	450	199	209	217	274
	LR3 40-5/1000	Flat copper	for M16	Fixing rail	M10	128.32 kg		552	217	419	356	430	516	161	163	189	305
	LR3 40-3/1200	Flat copper	for M16	Fixing rail	M12	115.72 kg		552	217	419	356	430	516	167	169	195	301
	LR3 40-4/1200	Flat copper	for M16	Fixing rail	M12	186.20 kg		552	244	419	356	430	516	176	190	216	329
	LR3 40-5/1200	Flat copper	for M16	Fixing rail	M12	186.20 kg		552	274	420	356	430	516	218	220	246	362
	LR3 40-3/1400	Flat copper	for M16	Fixing rail	M12	145.24 kg		552	244	420	356	430	516	194	196	222	358
	LR3 40-4/1400	Flat copper	for M16	Fixing rail	M12	207.90 kg		552	274	420	356	430	516	206	220	246	362
	LR3 40-5/1400	Flat copper	for M16	Fixing rail	M12	207.90 kg		540	270	465	490	-	-	236	-	-	328
	LR3 40-3/1600	Flat copper	for M16	Fixing rail	M12	171.40 kg		552	274	420	356	430	516	224	226	252	358
	LR3 40-4/1600	Flat copper	for M16	Fixing rail	M12	306.60 kg		552	294	416	356	430	516	226	240	266	377
	LR3 40-5/1600	Flat copper	for M10	Fixing rail	M12	306.60 kg		540	270	465	490	-	-	336	-	-	324

Dimension pictures



Line reactor, three-phase, aluminium **LR3A 400**



General Data

Rated voltage 3 x 400 Vac
Short-circuit voltage (uK) 3 - 5 %
Rated current 3 x 90 - 3 x 1600 A
Inductance 0.019 - 14.700 mH
Insulation class H
Ambient temperature -10 °C to +40 °C
Degree of protection IP 00

Advantages

Use as line reactor, commutating reactor or PFC reactor
Weight reduction through aluminum winding
Ensuring the short-circuit voltage of 3, 4 or 5 % to the mains
Power harmonic damping
Starting current limitation
Increases the service life of consumers
Low ripple
Bridging voltage dips
Peak current limitation
Very good corrosion protection and low noise thanks to vacuum impregnation
Integrated lifting rings

Applications

Line reactor to minimise mains pollution, to reduce the reactive-power components and charging currents in the DC link capacitor and to improve the cos(phi).

Standards

Line- and commutation reactor to
DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

Approvals



UL 506, CSA 22.2



Line reactor, three-phase, aluminium **LR3A 400**



Electrical data	Typ	LR3A 40-3/90	LR3A 40-4/90	LR3A 40-5/90	LR3A 40-3/100	LR3A 40-4/100	LR3A 40-5/100
	Operating data						
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
	Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
	Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
	Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
	Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
	Rated current	90 A	90 A	90 A	100 A	100 A	100 A
	Inductance	0.245 mH	0.330 mH	0.408 mH	0.220 mH	0.290 mH	0.368 mH
	Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	Environment						
	Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
	Type of cooling	AN	AN	AN	AN	AN	AN
	Safety and protection						
	Type	Open type	Open type	Open type	Open type	Open type	Open type
	Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
	Safety class (prepared)	I	I	I	I	I	I
	Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
	Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
	Order numbers						
	Order Number	LR3A 40-3/90	LR3A 40-4/90	LR3A 40-5/90	LR3A 40-3/100	LR3A 40-4/100	LR3A 40-5/100

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2



Line reactor, three-phase, aluminium

LR3A 400



Typ	LR3A 40-3/115	LR3A 40-4/115	LR3A 40-5/115	LR3A 40-3/125	LR3A 40-4/125	LR3A 40-5/125
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	4 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	115 A	115 A	115 A	125 A	125 A	125 A
Inductance	0.193 mH	0.250 mH	0.320 mH	0.177 mH	0.230 mH	0.294 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/115	LR3A 40-4/115	LR3A 40-5/115	LR3A 40-3/125	LR3A 40-4/125	LR3A 40-5/125

Typ	LR3A 40-3/160	LR3A 40-4/160	LR3A 40-5/160	LR3A 40-3/180	LR3A 40-4/180	LR3A 40-5/180
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	160 A	160 A	160 A	180 A	180 A	180 A
Inductance	0.138 mH	0.180 mH	0.230 mH	0.123 mH	0.160 mH	0.204 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/160	LR3A 40-4/160	LR3A 40-5/160	LR3A 40-3/180	LR3A 40-4/180	LR3A 40-5/180



Line reactor, three-phase, aluminium

LR3A 400



Typ	LR3A 40-3/200	LR3A 40-4/200	LR3A 40-5/200	LR3A 40-3/250	LR3A 40-4/250	LR3A 40-5/250
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	200 A	200 A	200 A	250 A	250 A	250 A
Inductance	0.110 mH	0.150 mH	0.184 mH	0.088 mH	0.120 mH	0.147 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/200	LR3A 40-4/200	LR3A 40-5/200	LR3A 40-3/250	LR3A 40-4/250	LR3A 40-5/250

Typ	LR3A 40-3/300	LR3A 40-4/300	LR3A 40-5/300	LR3A 40-3/400	LR3A 40-4/400	LR3A 40-5/400
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	300 A	300 A	300 A	400 A	400 A	400 A
Inductance	0.074 mH	0.089 mH	0.123 mH	0.055 mH	0.074 mH	0.092 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/300	LR3A 40-4/300	LR3A 40-5/300	LR3A 40-3/400	LR3A 40-4/400	LR3A 40-5/400



Line reactor, three-phase, aluminium

LR3A 400



Typ	LR3A 40-3/500	LR3A 40-4/500	LR3A 40-5/500	LR3A 40-3/630	LR3A 40-4/630	LR3A 40-5/630
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage u _k	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	500 A	500 A	500 A	630 A	630 A	630 A
Inductance	0.044 mH	0.059 mH	0.074 mH	0.035 mH	0.047 mH	0.059 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/500	LR3A 40-4/500	LR3A 40-5/500	LR3A 40-3/630	LR3A 40-4/630	LR3A 40-5/630

Typ	LR3A 40-3/710	LR3A 40-4/710	LR3A 40-5/710	LR3A 40-3/800	LR3A 40-4/800	LR3A 40-5/800
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage u _k	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	710 A	710 A	710 A	800 A	800 A	800 A
Inductance	0.031 mH	0.042 mH	0.052 mH	0.022 mH	0.037 mH	0.046 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/710	LR3A 40-4/710	LR3A 40-5/710	LR3A 40-3/800	LR3A 40-4/800	LR3A 40-5/800



Line reactor, three-phase, aluminium

LR3A 400



Typ	LR3A 40-3/1000	LR3A 40-4/1000	LR3A 40-5/1000	LR3A 40-3/1200	LR3A 40-4/1200	LR3A 40-5/1200
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	800 A	1000 A	800 A	1200 A	1200 A	1200 A
Inductance	0.022 mH	0.030 mH	0.037 mH	0.018 mH	0.025 mH	0.031 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/1000	LR3A 40-4/1000	LR3A 40-5/1000	LR3A 40-3/1200	LR3A 40-4/1200	LR3A 40-5/1200

Typ	LR3A 40-3/1400	LR3A 40-4/1400	LR3A 40-5/1400	LR3A 40-3/1600	LR3A 40-4/1600	LR3A 40-5/1600
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac
Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac
Short circuit voltage uK	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac	3 % @ 400 Vac	4 % @ 400 Vac	5 % @ 400 Vac
Frequency range	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz	0 - 50 Hz
Voltage drop	6.9 Vac	9.2 Vac	11.6 Vac	6.9 Vac	9.2 Vac	11.6 Vac
Rated current	1400 A	1400 A	1400 A	1600 A	1600 A	1600 A
Inductance	0.016 mH	0.021 mH	0.026 mH	0.014 mH	0.019 mH	0.023 mH
Inductance deviation	±10 %	±10 %	±10 %	±10 %	±10 %	±10 %
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C	-10 °C to +40 °C
Type of cooling	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Insulation class	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180	IEC=H, UL=class 180
Test voltage	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac
Order numbers						
Order Number	LR3A 40-3/1400	LR3A 40-4/1400	LR3A 40-5/1400	LR3A 40-3/1600	LR3A 40-4/1600	LR3A 40-5/1600



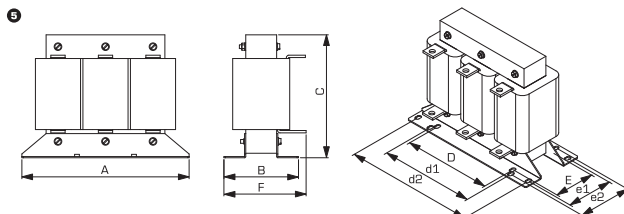
Line reactor, three-phase, aluminium

LR3A 400



Mechanical data	Type	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	d1	d2	E	e1	e2	F
	LR3A 40-3/90	Flat copper	for M8	Fixing rail	M8	10.64 kg	5	210	105	177	175	-	-	81	-	-	-
	LR3A 40-4/90	Flat copper	for M8	Fixing rail	M8	10.95 kg	5	267	149	200	176	249	-	79	79	-	-
	LR3A 40-5/90	Flat copper	for M8	Fixing rail	M8	18.25 kg	5	250	139	215	100	191	-	103	103	-	-
	LR3A 40-3/100	Flat copper	for M8	Fixing rail	M8	11.33 kg	5	267	115	198	176	180	249	65	92	73	-
	LR3A 40-4/100	Flat copper	for M8	Fixing rail	M8	16.30 kg	5	267	173	200	176	249	-	103	103	-	-
	LR3A 40-5/100	Flat copper	for M8	Fixing rail	M8	18.47 kg	5	250	139	215	100	191	-	103	103	-	-
	LR3A 40-3/115	Flat copper	for M8	Fixing rail	M8	17.09 kg	5	267	139	205	176	180	249	89	116	97	-
	LR3A 40-4/115	Flat copper	for M8	Fixing rail	M8	17.30 kg	5	291	179	210	185	273	-	107	107	-	-
	LR3A 40-5/115	Flat copper	for M8	Fixing rail	M8	26.25 kg	5	250	131	230	200	-	-	97	97	-	-
	LR3A 40-3/125	Flat copper	for M8	Fixing rail	M8	17.42 kg	5	267	139	205	176	180	249	89	116	97	-
	LR3A 40-4/125	Flat copper	for M8	Fixing rail	M8	17.10 kg	5	291	179	210	185	273	-	107	107	-	-
	LR3A 40-5/125	Flat copper	for M8	Fixing rail	M8	26.25 kg	5	250	131	230	200	-	-	97	97	-	-
	LR3A 40-3/160	Flat copper	for M8	Fixing rail	M8	15.91 kg	5	250	129	210	100	191	-	93	93	-	-
	LR3A 40-4/160	Flat copper	for M8	Fixing rail	M8	22.10 kg	5	291	189	210	185	273	-	117	117	-	-
	LR3A 40-5/160	Flat copper	for M8	Fixing rail	M8	27.39 kg	5	352	144	260	224	240	328	88	114	98	-
	LR3A 40-3/180	Flat copper	for M8	Fixing rail	M8	25.48 kg	5	250	131	230	200	-	-	97	97	-	-
	LR3A 40-4/180	Flat copper	for M8	Fixing rail	M8	25.20 kg	5	270	131	237	144	200	-	101	101	-	-
	LR3A 40-5/180	Flat copper	for M8	Fixing rail	M8	37.71 kg	5	352	169	265	224	240	328	113	139	123	-
	LR3A 40-3/200	Flat copper	for M8	Fixing rail	M8	25.59 kg	5	250	131	230	200	-	-	97	97	-	-
	LR3A 40-4/200	Flat copper	for M8	Fixing rail	M8	25.00 kg	5	352	194	260	224	240	328	102	92	119	-
	LR3A 40-5/200	Flat copper	for M8	Fixing rail	M8	38.04 kg	5	352	169	265	224	240	328	113	139	123	-
	LR3A 40-3/250	Flat copper	for M8	Fixing rail	M8	25.08 kg	5	352	144	260	224	240	328	88	114	98	-
	LR3A 40-4/250	Flat copper	for M8	Fixing rail	M8	31.00 kg	5	352	207	260	224	240	328	115	105	132	-
	LR3A 40-5/250	Flat copper	for M8	Fixing rail	M8	44.03 kg	5	352	184	265	224	240	328	128	154	138	-
	LR3A 40-3/300	Flat copper	for M8	Fixing rail	M8	26.07 kg	5	352	144	260	224	240	328	88	114	98	-
	LR3A 40-4/300	Flat copper	for M8	Fixing rail	M8	37.00 kg	5	352	219	260	224	240	328	127	117	144	-
	LR3A 40-5/300	Flat copper	for M8	Fixing rail	M8	48.65 kg	5	352	195	265	224	240	328	139	165	149	-
	LR3A 40-3/400	Flat copper	for M8	Fixing rail	M8	31.48 kg	5	352	157	260	224	240	328	101	127	111	-
	LR3A 40-4/400	Flat copper	for M8	Fixing rail	M8	43.50 kg	5	352	234	260	224	240	328	142	132	159	-
	LR3A 40-5/400	Flat copper	for M8	Fixing rail	M8	53.59 kg	5	412	170	315	264	310	388	134	134	124	-
	LR3A 40-3/500	Flat copper	for M8	Fixing rail	M8	43.37 kg	5	352	184	265	224	240	328	128	154	138	-
	LR3A 40-4/500	Flat copper	for M8	Fixing rail	M8	49.00 kg	5	352	245	260	224	240	328	153	143	170	-
	LR3A 40-5/500	Flat copper	for M8	Fixing rail	M8	55.46 kg	5	412	170	315	264	310	388	134	134	124	-
	LR3A 40-3/630	Flat copper	for M8	Fixing rail	M8	53.15 kg	5	412	170	315	264	310	388	134	134	124	-
	LR3A 40-4/630	Flat copper	for M8	Fixing rail	M8	67.00 kg	5	480	225	380	316	370	450	125	143	135	-
	LR3A 40-5/630	Flat copper	for M8	Fixing rail	M8	83.13 kg	5	552	193	410	356	430	516	145	171	143	-
	LR3A 40-3/710	Flat copper	for M8	Fixing rail	M8	62.44 kg	5	412	185	315	164	310	388	149	149	139	-
	LR3A 40-4/710	Flat copper	for M8	Fixing rail	M8	76.00 kg	5	480	235	380	316	370	450	135	153	145	-
	LR3A 40-5/710	Flat copper	for M8	Fixing rail	M8	104.73 kg	5	552	193	410	356	430	516	145	171	143	-
	LR3A 40-3/800	Flat copper	for M10	Fixing rail	M10	70.39 kg	5	480	183	370	316	370	450	135	143	125	-
	LR3A 40-4/800	Flat copper	for M10	Fixing rail	M10	115.00 kg	5	480	250	380	316	370	450	150	153	145	-
	LR3A 40-5/800	Flat copper	for M10	Fixing rail	M10	105.06 kg	5	552	193	410	356	413	516	145	171	143	-
	LR3A 40-3/1000	Flat copper	for M10	Fixing rail	M10	82.02 kg	5	480	198	360	316	370	450	150	158	140	-
	LR3A 40-4/1000	Flat copper	for M10	Fixing rail	M10	145.00 kg	5	480	295	380	316	370	450	195	198	190	-
	LR3A 40-5/1000	Flat copper	for M10	Fixing rail	M10	105.06 kg	5	552	193	410	356	430	516	145	171	143	-

Dimension pictures



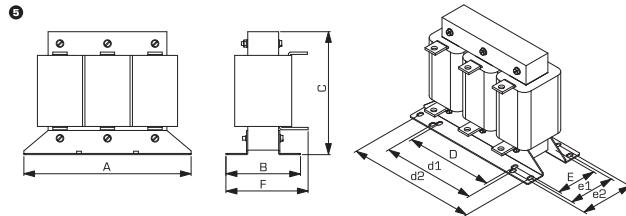


Line reactor, three-phase, aluminium **LR3A 400**

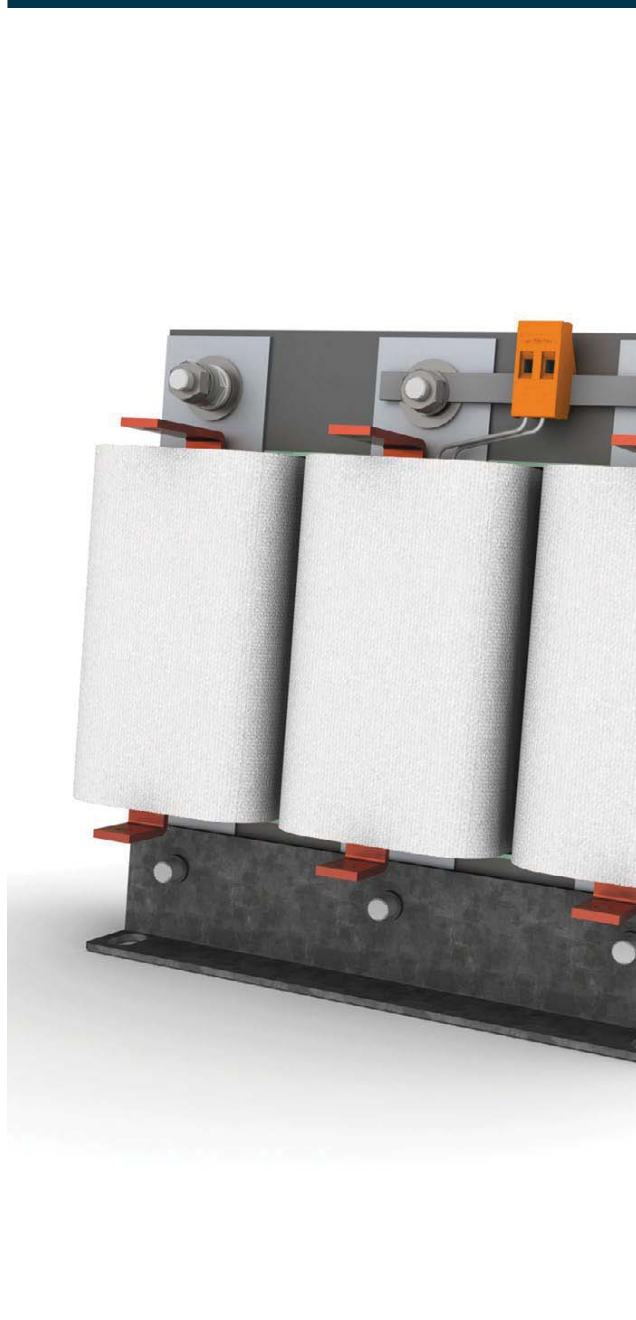


Mechanical data	Type	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	d1	d2	E	e1	e2	F
	LR3A 40-3/1200	Flat copper	for M10	Fixing rail	M10	98.13 kg		552	193	410	356	430	516	145	171	143	-
	LR3A 40-4/1200	Flat copper	for M10	Fixing rail	M10	186.20 kg		555	330	445	356	430	515	180	210	180	-
	LR3A 40-5/1200	Flat copper	for M10	Fixing rail	M10	189.20 kg		552	302	410	356	430	516	232	258	230	-
	LR3A 40-3/1400	Flat copper	for M10	Fixing rail	M10	124.77 kg		552	272	410	356	430	516	172	198	230	-
	LR3A 40-4/1400	Flat copper	for M10	Fixing rail	M10	170.50 kg		555	360	445	356	430	515	210	240	210	-
	LR3A 40-5/1400	Flat copper	for M10	Fixing rail	M10	177.87 kg		540	270	465	490	-	-	218	-	-	-
	LR3A 40-3/1600	Flat copper	for M10	Fixing rail	M10	159.76 kg		552	272	410	356	430	516	202	228	200	-
	LR3A 40-4/1600	Flat copper	for M10	Fixing rail	M10	186.00 kg		555	380	455	356	430	515	230	260	230	-
	LR3A 40-5/1600	Flat copper	for M10	Fixing rail	M10	301.62 kg		540	370	465	490	-	-	302	338	318	-

Dimension pictures



Detuned reactor **DR3**



General Data

Rated input voltage 3 x 400 Vac
For reactive power 12.5 - 50 kVAr
Detuning factor 7 - 14 %
Insulation class F/H
Maximum ambient temperature 40 °C
Degree of protection IP 00

Advantages

No overloading of the capacitors
Stabilizing mains impedance
Low inductance tolerance
Very good corrosion protection and low noise thanks to vacuum impregnation
Extended linearity
Thermal design for continuous duty in the event of mains operation and harmonics
Optional with thermal switch

Applications

Detuned reactor for choking idle reactive power compensation capacitors.

Standards

Detuning reactor in accordance with EN 61558 Part 1, 61558 Part 20, UL 506, CSA 22.2

Approvals



UL 506, CSA 22.2

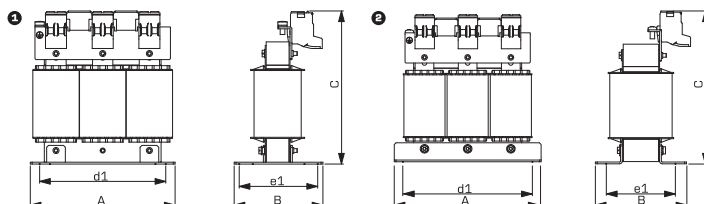


Detuned reactor DR3



	Typ	DR3 12,5/7	DR3 12,5/7/T	DR3 12,5/14	DR3 12,5/14/T	DR3 25/7	DR3 25/7/T
Electrical data	Operating data						
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
	for reactive power	12.5 kVAr	12.5 kVAr	12.5 kVAr	12.5 kVAr	25.0 kVAr	25.0 kVAr
	Current per phase at 50 Hz (I)	19.5 A	19.5 A	19.5 A	19.5 A	36.0 A	36.0 A
	Inductance linear to lat $\geq 95\%$ L; (m)	27.3 A	27.3 A	27.3 A	27.3 A	50.4 A	50.4 A
	Inductance per phase (L)	3.220 mH	3.220 mH	6.750 mH	6.750 mH	1.590 mH	1.590 mH
	Tolerance	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
	Detuning factor	$p = 7\%$	$p = 7\%$	$p = 14\%$	$p = 14\%$	$p = 7\%$	$p = 7\%$
	Temperature control	No	Yes	No	Yes	No	Yes
	Resonance frequency	189 Hz	189 Hz	134 Hz	134 Hz	189 Hz	189 Hz
	Output						
	Power loss	115.0 W	115.0 W	150.0 W	150.0 W	140.0 W	140.0 W
Approvals							
Approvals		cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)
Environment							
Ambient temperature max.		40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)
Safety and protection							
Type		Open type	Open type	Open type	Open type	Open type	Open type
Insulation class		F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)
Protection index		IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)		I	I	I	I	I	I
Test voltage		2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers							
Order Number		DR3 12,5/7	DR3 12,5/7/T	DR3 12,5/14	DR3 12,5/14/T	DR3 25/7	DR3 25/7/T
Mechanical data	Terminal and mounting						
	Fixing method	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail
	Fixing screws	M8	M8	M8	M8	M8	M8
	Terminals phase	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²
	Terminals PE	Bolt, M5	Bolt, M5	Bolt, M5	Bolt, M5	Bolt, M5	Bolt, M5
	Measures and weights						
	Weight	8.70 kg	8.70 kg	15.00 kg	15.00 kg	12.70 kg	12.70 kg
	Dimension picture (in mm)	①	①	②	②	①	①
	A	185	185	240	240	212	212
	B	125	125	140	140	125	125
	C	215	215	245	245	235	235
	d1	170	170	185	185	175	175
	e1	77	77	85	85	95	95

Dimension pictures



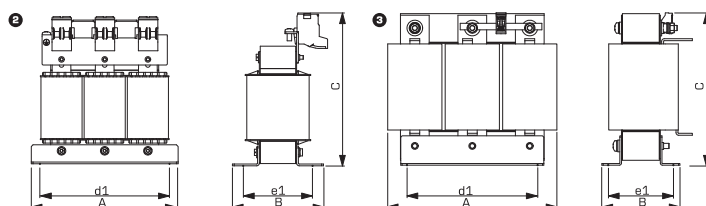


Detuned reactor DR3



Typ	DR3 25/14	DR3 25/14/T	DR3 50/7	DR3 50/7/T	DR3 50/14	DR3 50/14/T
	DR3 25/14	DR3 25/14/T	DR3 50/7	DR3 50/7/T	DR3 50/14	DR3 50/14/T
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
for reactive power	25.0 kVAr	25.0 kVAr	50.0 kVAr	50.0 kVAr	50.0 kVAr	50.0 kVAr
Current per phase at 50 Hz (I)	36.0 A	36.0 A	72.0 A	72.0 A	72.0 A	72.0 A
Inductance linear to lat ≥ 95 % L; (m)	50.4 A	50.4 A	129.6 A	129.6 A	129.6 A	129.6 A
Inductance per phase (L)	3.350 mH	3.350 mH	0.750 mH	0.750 mH	1.660 mH	1.660 mH
Tolerance	±3 %	±3 %	±3 %	±3 %	±3 %	±3 %
Detuning factor	p = 14 %	p = 14 %	p = 7 %	p = 7 %	p = 14 %	p = 14 %
Temperature control	No	Yes	No	Yes	No	Yes
Resonance frequency	134 Hz	134 Hz	189 Hz	189 Hz	134 Hz	134 Hz
Output						
Power loss	165.0 W	165.0 W	180.0 W	180.0 W	320.0 W	320.0 W
Approvals						
Approvals	cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)	cURus (pending)
Environment						
Ambient temperature max.	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)	40 °C (60 °C Cl. H)
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)	F (40 °C) / H (60 °C)
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers						
Order Number	DR3 25/14	DR3 25/14/T	DR3 50/7	DR3 50/7/T	DR3 50/14	DR3 50/14/T
Mechanical data						
Terminal and mounting						
Fixing method	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail
Fixing screws	M8	M8	M8	M8	M8	M8
Terminals phase	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Flat copper	Flat copper	Flat copper	Flat copper
Terminals PE	Bolt, M5	Bolt, M5	Bolt, M8	Bolt, M8	Bolt, M8	Bolt, M8
Measures and weights						
Weight	19.80 kg	19.80 kg	24.70 kg	24.70 kg	39.00 kg	39.00 kg
Dimension picture (in mm)	2	2	3	3	3	3
A	240	240	256	256	300	300
B	150	150	140	140	160	160
C	245	245	234	234	270	270
d1	185	185	200	200	224	224
e1	95	95	90	90	119	119

Dimension pictures





1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2