

Line reactor, single-phase NKE 230 and 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 BLOCKIMPEX vacuum impregnation
Bridging voltage dips
Peak current limitation

Applications

Line reactor to minimize mains pollution, to reduce the reactive-power components and charging currents in the DC link capacitor and to improve the cosφ_{pl}.

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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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
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	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
Inductivity	7.330 mH	12.750 mH	4.880 mH	8.500 mH	2.930 mH	5.100 mH
Inductivity 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
Cooling method	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Class of Insulation System	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

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2



Line reactor, single-phase

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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
Inductivity	1.830 mH	3.190 mH	1.470 mH	2.550 mH	1.170 mH	2.040 mH
Inductivity 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
Cooling method	AN	AN	AN	AN	AN	AN
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Class of Insulation System	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

Typ	Connections phase	Connections PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	Dimensions (mm)							
							A	B	C	D	E	F	G	H
NKE 4/7,33	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.60 kg	1	60	66	68	44	39	56	50	5.5
NKE 4/12,75	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.60 kg	1	60	66	68	44	39	56	50	5.5
NKE 6/4,88	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.60 kg	1	60	66	68	44	39	56	50	5.5
NKE 6/8,50	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	78	96	64	52	76	64	6
NKE 10/2,93	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	78	96	64	52	76	64	6
NKE 10/5,10	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	78	96	64	52	76	64	6
NKE 16/1,83	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	78	96	64	52	76	64	6
NKE 16/3,19	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	2.20 kg	2	96	88	110	84	65	86	81	7.5
NKE 20/1,47	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	87	96	64	52	76	64	6
NKE 20/2,55	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	4.20 kg	2	120	110	130	90	75	116	93	8
NKE 25/1,17	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M4	1.40 kg	2	84	87	96	64	52	76	64	6
NKE 25/2,04	Screw clamp, 10 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M5	4.20 kg	2	120	110	130	90	75	116	93	8

Dimension pictures

