

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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NKE 230 / 400

Electrical data	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
	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	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	H
	NKE 4/7,33	Screw clamp, 4 mm ²	Tab connector, 6.3 x 0.8 mm	Base plate	M3	0.6 kg		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	0.6 kg		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	0.6 kg		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	1.4 kg		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	1.4 kg		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	1.4 kg		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	1.4 kg		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	2.2 kg		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	1.4 kg		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	4.2 kg		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	1.4 kg		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	4.2 kg		120	110	130	90	75	116	93	8

Dimension pictures

