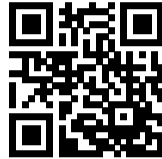


1-phase Line Reactor to reduce mains disturbances

- 4% 1-phase line reactor for 400 V network
- Reducing harmonics on the mains side
- Reliable and economical solution for mitigating mains disturbances



Approvals & Compliances



Features and Benefits

Reduction of harmonics and commutation notches

Limitation of peak current

Increase the service life and equipment

Typical Applications

Heat pumps

Harmonic current mitigation for single phase equipment

Reactive power compensation

Technical Specifications

Nominal operating voltage	230V
Impedance (Uk)	4% @ 230 V, 50 Hz and rated rms current
Overvoltage category	OV III
Temperature range (operation and storage)	-25°C to +40°C fully operationa
Climatic category	25/85/21 (IEC 60068-1)
Protection category	Natural cooling AN
Insulation class	Class B (130°C)

Reactor Selection Table

Reactor	Rated current@ 45°C [A]	Rated Power * [kW]	Inductance value [mH]	Typical power losses [W]	Weight [kg]
RWS 100-1-99	1	1.1	16.9	2	0.5
RWS 100-3-99	3	2.2	9.79	8	0.5
RWS 100-6-99	6	4	4.9	11	0.7
RWS 100-12-99	12	5.5	2.45	15	1.45
RWS 100-16-99	16	7.5	1.83	15	1.68
RWS 100-24-99	24	11	1.22	19	2.42
RWS 100-32-99	32	15	x	x	x
RWS 100-45-99	45	18.5	0.651	30	4.5
RWS 100-120-99	120	22	x	x	10

* Calculated at rated current, 400VAC and cos phi=0.90

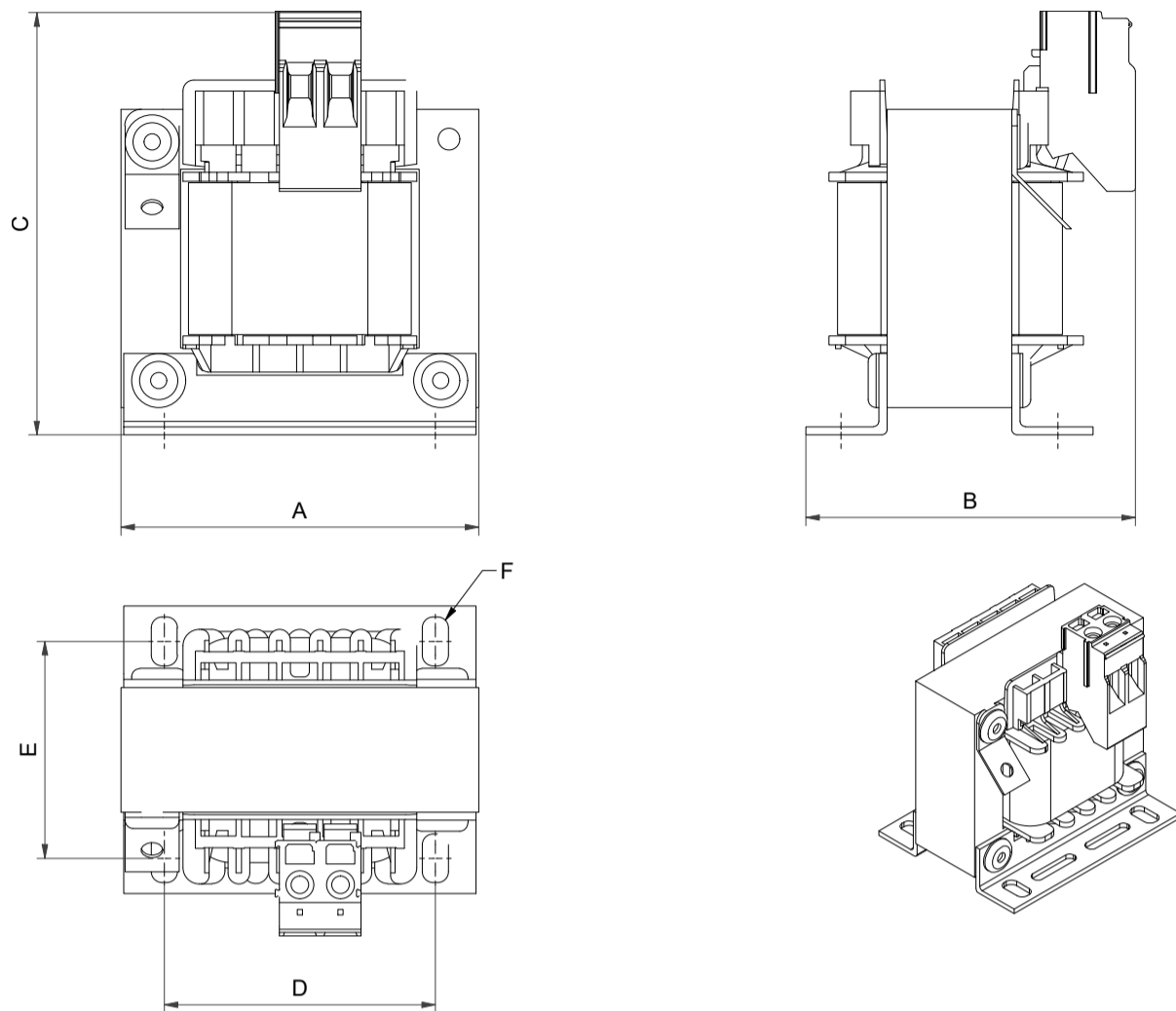
** Calculated at rated current, 480VAC and cos phi=0.89

*** For reference in North America market

Terminals

Type	-88	-89	-92	-99
Ring cable shoe	-	-	M6	M8/M10/M12
Fork cable shoe	M3.5 width max. 6.4mm	M4 width max. 8.0mm	-	-
Flex wire AWG	22-16	16-14	-	-
Rec. torque	0.78 Nm	1.76 Nm	-	-

Mechanical data



Dimensions

RWS100	A	B	C	D	E	F
1	60	48	78	44	36	3.6x7
3	60	48	78	44	36	3.6x7
6	66	56	81	50	41	4.8x9
12	78	61	85	56	45	4.8x9
16	84	86	100	64	48	4.8x9
24	84	102	100	64	62	4.8x9
32	x	x	x	x	x	x
45	96	120	118	84	86	5.8x9
120	155	220	135	122	103	7x15

All dimensions in mm; 1 inch = 25.4mm

General tolerance: ISO 2768-v

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