

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



Technical Specifications

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

Approvals & Compliances



Features and Benefits

Reduction of harmonics and commutation potches

Limitation of peak current

Increase the service life and equipment

Typical Applications

Heat pumps

Harmonic current mitigation for single phase equipment

Reactive power compensation

Reactor Selection Table

Reactor	Rated current@ 45°C	Rated Power *	Inductance value	Typical power losses	Weight
	[A]	[kW]	[mH]	[w]	[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	х	×
RWS 100-45-99	45	18.5	0.651	30	4.5
RWS 100-120-99	120	22	X	Х	10

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

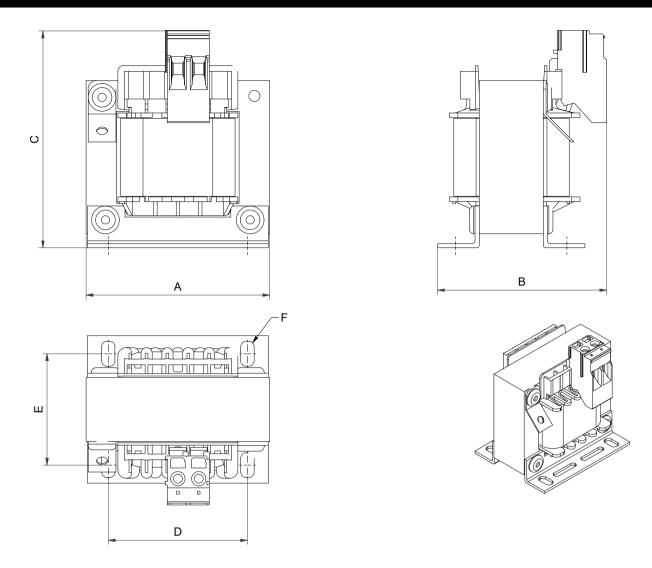
Terminals

Туре	-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	-	-

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

^{***} For reference in North America market

Mechanical data



Dimensions

RWS100	A	В	с	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	Х	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

Headquarters, Global Innovation and Development

Switzerland

Schaffner Group

Industrie Nord Nordstrasse 11e 4542 Luterbach

+41 32 681 66 26

info@schaffner.com

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Sales and Application **Centers**

Switzerland

Schaffner EMV AG

Industrie Nord Nordstrasse 11e 4542

Luterbach +41 32 681 66 26

switzerlandsales@schaffner.com

Schaffner EMC Ltd. Shanghai

Building C T20-3 C No 565 Chuangye Road Pudong district C幢上海市浦东新区创业路 565号 T20-3 201201 Shanghai + 86 21 38 139 500 cschina@schaffner.com

Singapore

Schaffner EMC Pte Ltd.

Blk 3015A Ubi Road 1 #05-09 Kampong Ubi Industrial Estate 408705 Singapore +65 63773283 singaporesales@schaffner.com