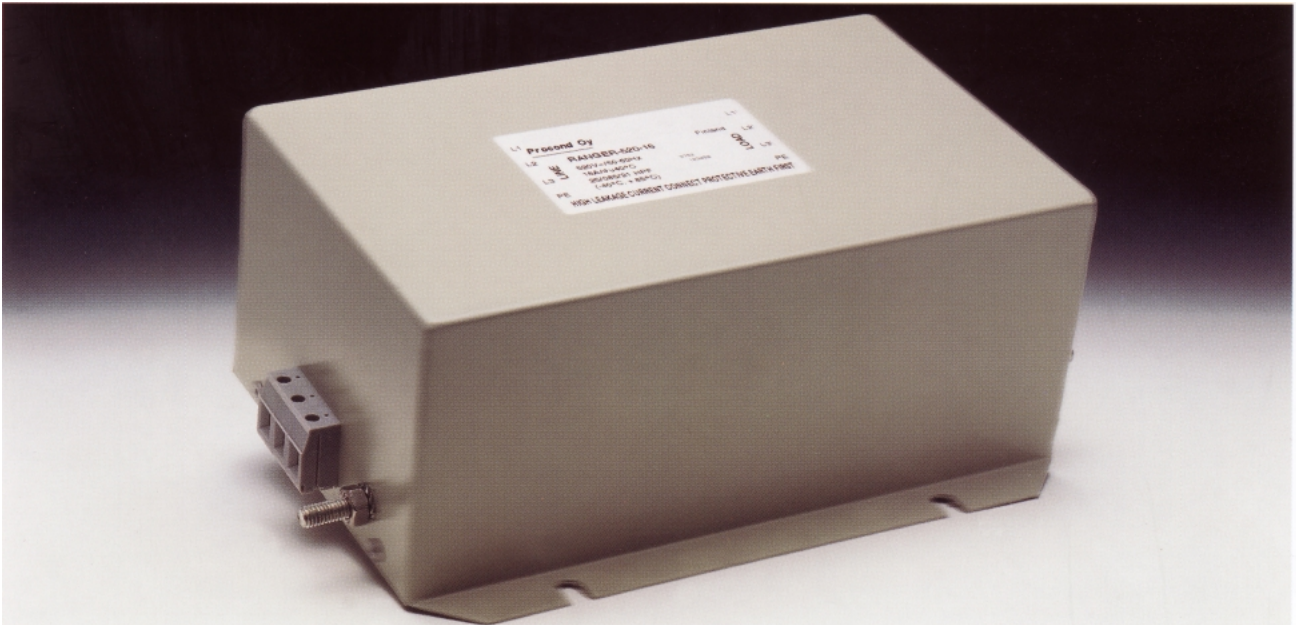


Industrial filters



RANGER

High performance filters for universal applications

A very high performance universal filter with highly effective circuitry. These filters provide very high performance for industrial inverters, installations and power drive system applications. Available in two different voltage ratings: 440 V and 520 V

Applications: Power drive systems and installations, high power installations.

- 8 – 1200 A current ratings

Operating voltage: 440 VAC or 520 VAC

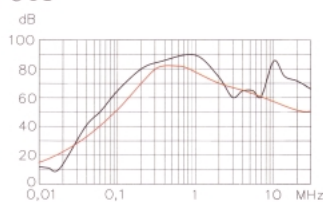
Operating frequency: 0 – 400 Hz

Temperature range: -40°C - +85°C

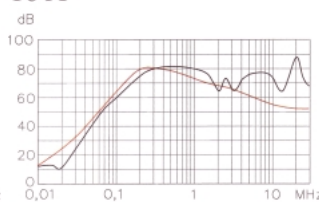
— asym.,

— symm.

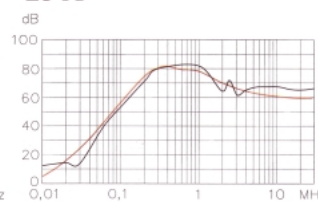
8 A



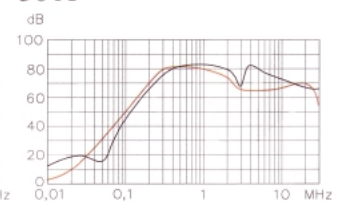
16 A



25 A

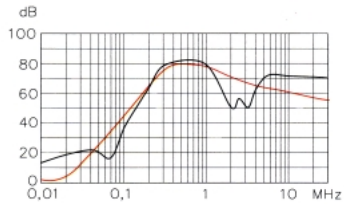


36 A

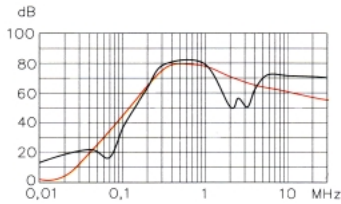


Type	Rated current [A] (40°C)	Max. Leakage current [mA] (250 V, 50 Hz)	Power Loss [W]	L [mH]	ΣCx [μF]	Σcy [μF]	Weight [kg]
440 V- and 520 V -series							
RANGER-440/520-8	8	22	7	7,5	3,3	0,17	1,5
RANGER-440/520-16	16	53	10	5,5	3,3	0,42	2,0
RANGER-440/520-25	25	53	12	2,2	3,3	0,42	3,5
RANGER-440/520-36	36	53	11	1,3	3,3	0,42	3,5
RANGER-440/520-50	50	53	15	0,9	3,3	0,42	4,0
RANGER-440/520-80	80	53	26	0,9	6,6	0,42	10,0
RANGER-440/520-110	110	53	34	0,3	6,6	0,42	10,0

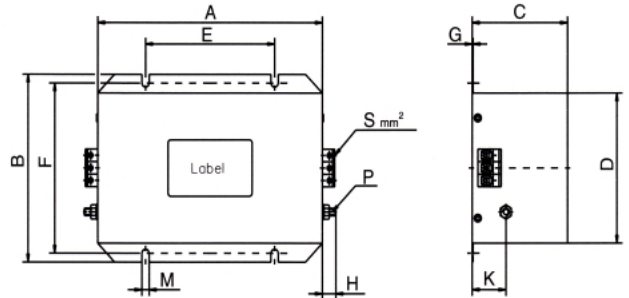
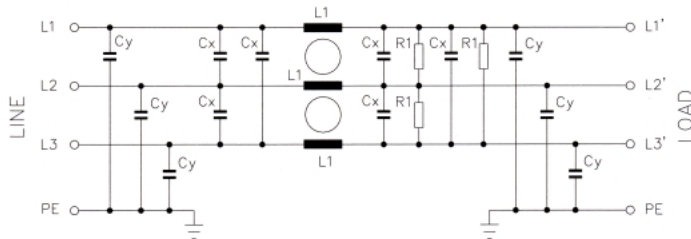
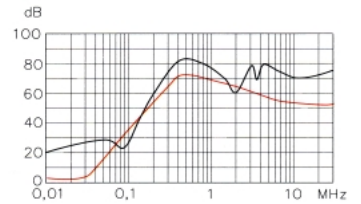
50 A



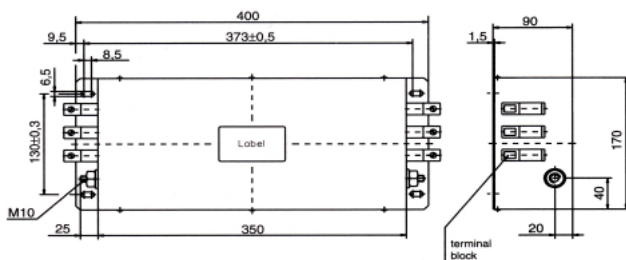
80 A



110 A



Filter	Ranger-440-8 Ranger-520-8	Ranger-440-16 Ranger-520-16	Ranger-440-25 Ranger-520-25	Ranger-440-36 Ranger-520-36	Ranger-440-50 Ranger-520-50	Tol. ± mm
A	200		200	200		1,0
B	150		150	150		0,5
C	65		65	65		0,5
D	120		120	120		1,0
E	115		115	115		0,3
F	136		136	136		0,3
G	0,75		0,75	0,75		0,1
H	20		20	20		2,0
K	17		17	17		1,0
M	6,5		6,5	6,5		0,2
P	M6		M6	M6		-
S	4		6	10		-



Filter	Terminal block mm ²
Ranger-440-80, Ranger-520-80	25
Ranger-440-110, Ranger-520-110	50

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Industrial filters

RANGER

High performance filters for universal applications

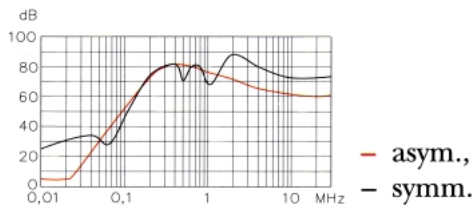
A very high performance universal filter with highly effective circuitry. These filters provide very high performance for industrial inverters, installations and power drive system applications. Available in two different voltage ratings: 440 V and 520 V

Applications: Power drive systems and installations, high power installations.

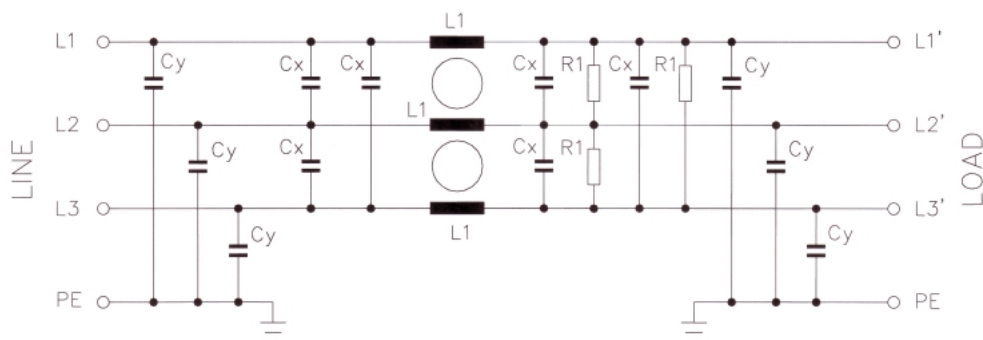
- 8 – 1200 A current ratings

Operating voltage: 440 VAC or 520 VAC
Operating frequency: 0 – 400 Hz
Temperature range: -40°C - +85°C

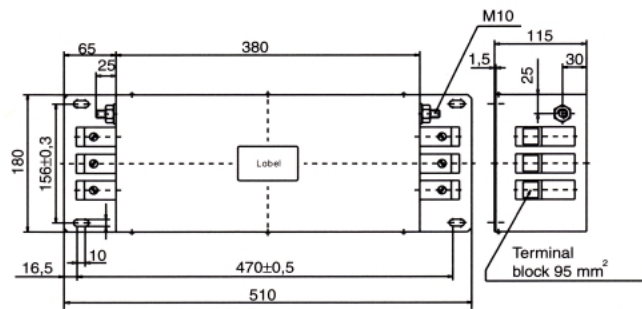
180 A



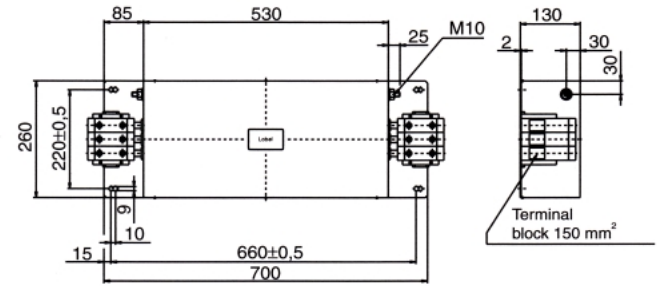
Type	Rated current [A] (40°C)	Max. Leakage current [mA] (250 V, 50 Hz)	Power Loss [W]	L [mH]	ΣCx [μF]	Σcy [μF]	Weight [kg]
440 V- and 520 V -series							
RANGER-440/520-180	180	145	47	0,3	6,6	1,16	13,0
RANGER-440/520-280	280	219	69	0,3	13,2	1,74	28,0
RANGER-440/520-450	450	256	69	0,3	19,8	2,04	45,0
RANGER-440/520-600	600	256	77	0,2	26,4	2,04	45,0
RANGER-440/520-900	900	256	96	0,0	26,4	2,04	135,0
RANGER-440/520-1200	1200	256	152	0,0	26,4	2,04	140,0



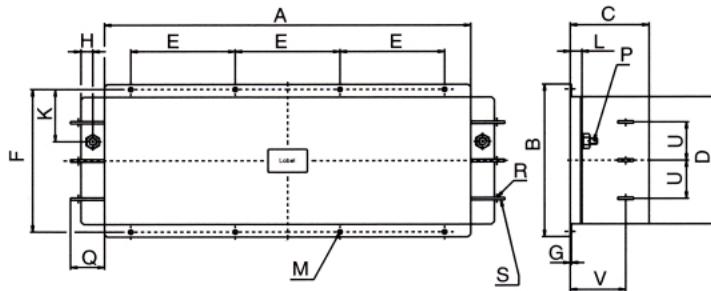
180 A



280 A



450–1200 A



FILTER	A	B	C	D	E	F	G	H	I	K	L	M	P	Q	R	S	U	V
Ranger-440-450	700	300	150	250	200	280	2	20	790	87,5	20	9	M16	65	Ø 12,5	25 x 6	75	105
Ranger-520-450	700	300	150	250	200	280	2	20	790	87,5	20	9	M16	65	Ø 12,5	25 x 6	75	105
Ranger-440-600	700	300	150	250	200	280	2	20	790	87,5	20	9	M16	85	Ø 12,5	30 x 8	75	105
Ranger-520-600	700	300	150	250	200	280	2	20	790	87,5	20	9	M16	85	Ø 12,5	30 x 8	75	105
Ranger-440-900	556	430	265	360	150	400	1,5	25	680	135	25	13	M20	122	Ø 17	40 x 10	90	160
Ranger-520-900	556	430	265	360	150	400	1,5	25	680	135	25	13	M20	122	Ø 17	40 x 10	90	160
Ranger-440-1200	556	430	265	360	150	400	1,5	25	680	135	25	13	M20	122	Ø 17	30 x 15	90	160
Ranger-520-1200	556	430	265	360	150	400	1,5	25	680	135	25	13	M20	122	Ø 17	30 x 15	90	160
Tol. ± mm	2	3	2	2	0,5	0,2	-	-	3	-	-	-	-	3	0,3	-	1	-