

HARMONIC FILTERS

Three Phase Harmonic Filters

Characteristics and utility

- Three phase harmonic filters.
- Avoid resonance between inductive impedance and three phase capacitors for power factor correction
- Detuning with MA/C/CE TER RCT and DWCAP RCT, with resonance frequency 134, 189 or 210 Hz.

Upon request

RTR's technical team offers the possibility of manufacturing equipment according to customer application need, different power, voltage, frequency...

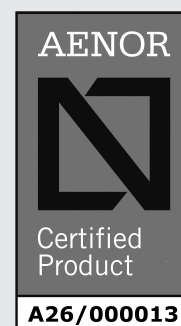
Construction and Materials

- Low losses magnetic plates
- Copper and aluminium conductor reactor insulation thermal class F (155°C) with permanent regime
- Thermal protection relay
- Specially designed to increasing ventilation, and improving thermal dissipation
- Thermal class of electrical insulating material 180°C

Standards

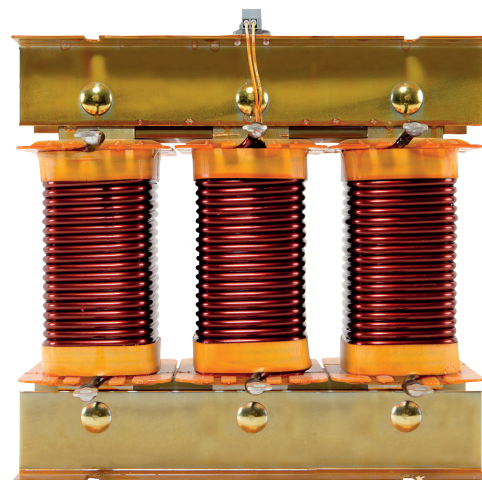
- EN 60076-6
- IEC 60076-6

Certifications



Technical Characteristics

Tolerance "L"	5 %
Frequency networks	50 / 60 Hz
Linearity Inductance	1,8 x In
Detuning factor	5,67 % , 7% , 14%
Proof strees	4 KV
Thermal Protection	90 ° C, 120° C, 140° C
Permissible Overload	1,07 x In
Protection Degree	IP 00



Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF023000501895	5	230	50	189	7	279,80	12,55	2,53
RTF023001001895	10	230	50	189	7	559,60	25,10	1,27
RTF023001251895	12,5	230	50	189	7	699,50	31,38	1,01
RTF023001501895	15	230	50	189	7	839,40	37,65	0,84
RTF023002001895	20	230	50	189	7	1119,20	50,20	0,63
RTF023002501895	25	230	50	189	7	1399,00	62,76	0,51
RTF023003001895	30	230	50	189	7	1678,80	75,31	0,42
RTF023004001895	40	230	50	189	7	2238,40	100,41	0,32
Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF040001002105	10	400	50	210	5,67	187,66	14,43	3,06
RTF040001252105	12,5	400	50	210	5,67	234,58	18,04	2,45
RTF040001502105	15	400	50	210	5,67	281,50	21,65	2,04
RTF040002002105	20	400	50	210	5,67	375,33	28,87	1,53
RTF040002502105	25	400	50	210	5,67	469,16	36,08	1,22
RTF040005002105	50	400	50	210	5,67	938,32	72,17	0,61
RTF040008002105	80	400	50	210	5,67	1501,31	115,47	0,38
RTF040010002105	100	400	50	210	5,67	1876,64	144,34	0,31
Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF040001001895	10	400	50	189	7	185,02	14,43	3,83
RTF040001251895	12,5	400	50	189	7	231,27	18,04	3,07
RTF040001501895	15	400	50	189	7	277,53	21,65	2,56
RTF040002001895	20	400	50	189	7	370,04	28,87	1,92
RTF040002501895	25	400	50	189	7	462,54	36,08	1,53
RTF040005001895	50	400	50	189	7	925,09	72,17	0,77
RTF040008001895	80	400	50	189	7	1480,14	115,47	0,48
RTF040010001895	100	400	50	189	7	1850,18	144,34	0,38
Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF040001001345	10	400	50	134	14	171,09	14,43	8,29
RTF040001251345	12,5	400	50	134	14	213,86	18,04	6,63
RTF040001501345	15	400	50	134	14	256,64	21,65	5,53
RTF040002001345	20	400	50	134	14	342,18	28,87	4,15
RTF040002501345	25	400	50	134	14	427,73	36,08	3,32
RTF040005001345	50	400	50	134	14	855,46	72,17	1,66
RTF040008001345	80	400	50	134	14	1368,73	115,47	1,04
RTF040010001345	100	400	50	134	14	1710,92	144,34	0,83
Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF044001001895	10	440	50	189	7	152,91	13,12	4,64
RTF044001251895	12,5	440	50	189	7	191,13	16,40	3,71
RTF044001501895	15	440	50	189	7	229,36	19,68	3,09
RTF044002001895	20	440	50	189	7	305,81	26,24	2,32
RTF044002501895	25	440	50	189	7	382,27	32,80	1,86
RTF044005001895	50	440	50	189	7	764,54	65,61	0,93
RTF044008001895	80	440	50	189	7	1223,26	104,97	0,58
RTF044010001895	100	440	50	189	7	1529,07	131,22	0,46
Code	Power	Voltage	Nominal	Resonance	Detuning	Capacitance	Current	Inductance
	KVAr	V	Frequency Hz	Frequency Hz	Factor %	µF	A	mH
RTF044001001345	10	440	50	134	14	141,40	13,12	10,03
RTF044001251345	12,5	440	50	134	14	176,75	16,40	8,03
RTF044001501345	15	440	50	134	14	212,10	19,68	6,69
RTF044002001345	20	440	50	134	14	282,80	26,24	5,02
RTF044002501345	25	440	50	134	14	353,49	32,80	4,01
RTF044005001345	50	440	50	134	14	706,99	65,61	2,01
RTF044008001345	80	440	50	134	14	1131,18	104,97	1,25
RTF044010001345	100	440	50	134	14	1413,98	131,22	1,00

*Other voltages and power upon request
 ** consult for dimensions