



## Single-Phase RFI Filters

SCHÄFFNER		Attenuation performance Rated current [A]			features										typical applications						
SINGLE-PHASE FILTERS AC		max voltage	standard	high	very high	1-stage filter circuit	2-stage filter circuit	3-stage filter circuit	With earth line choke	With overvoltage protection	Low frequency attenuation	High frequency attenuation	Choice of connection style	NEMP, TEMPEST protection	Power supplies, SMPS	Medical equipment	Single-phase motor drives	Control unit in machine tools	Military applications	Office, test & measure. equip.	General purpose
FN 343	250 VAC	1-10				•	•													•	•
FN 685	250 VAC	10 36				•				•		•			•		•				
FN 2060	250 VAC	1 30				•							•		•	•				•	•
FN 2070	250 VAC	1 36				•						•	•		•	•	•			•	
FN 2080	250 VAC	1 16				•					•		•		•	•	•				
FN 2090	250 VAC	1 30				•			•	•	•	•			•	•	•				
FN 2360	250 VAC	3-6				•									•	•				•	•
FN 2415	250 VAC	6-16				•											•	•			
FN 352Z	250 VAC	6 30					•		•		•				•					•	•
FN700Z	250 VAC	6 20					•		•	•	•			•	•	•				•	•

## Single-Phase DC Filter

SINGLE-PHASE FILTERS DC		max voltage	standard	high	very high	1-stage filter circuit	2-stage filter circuit	3-stage filter circuit	With earth line choke	With overvoltage protection	Low frequency attenuation	High frequency attenuation	Choice of connection style	NEMP, TEMPEST protection	Power supplies, SMPS	Medical equipment	Single-phase motor drives	Control unit in machine tools	Military applications	Office, test & measure. equip.	General purpose
FN 2200	1200 VDC	25 1500				•				•	•	•			•					•	•

# Single-Phase RFI Filters

## Key Features

- Rated currents from 1 to 60A
- General purpose filtering performance

### FN 2010 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2010-1-06	1 (1.15)	0.74	12	0.1	4.7	1000	65
FN 2010-3-06	3 (3.45)	0.74	2.5	0.1	4.7	1000	65
FN 2010-6-06	6 (6.9)	0.74	1	0.1	4.7	1000	65
FN 2010-10-06	10 (11.5)	0.74	0.8	0.1	4.7	1000	85
FN 2010-12-06	12 (13.8)	0.74	0.7	0.1	4.7	1000	85
FN 2010-16-06	16 (18.4)	0.74	0.7	0.1	4.7	1000	140
FN 2010-20-06	20 (23)	0.74	0.6	0.1	4.7	1000	210
FN 2010-30-08	30 (34.5)	0.87	0.7	0.47	10	1000	470
FN 2010-60-24	60 (69)	0.87	1	1.5	10	330	1100

### FN 2020 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2020-1-06	1 (1.15)	0.74	12	0.15	4.7	1000	80
FN 2020-3-06	3 (3.45)	0.74	2.5	0.15	4.7	1000	80
FN 2020-6-06	6 (6.9)	0.74	1	0.15	4.7	1000	80
FN 2020-10-06	10 (11.5)	0.74	0.8	0.15	4.7	1000	85
FN 2020-12-06	12 (13.8)	0.74	0.7	0.15	4.7	1000	85
FN 2020-16-06	16 (18.4)	0.74	0.065	0.15	4.7	1000	140
FN 2020-20-06	20 (23)	0.74	0.6	0.15	4.7	1000	210
FN 2020-30-08	30 (34.5)	0.87	0.67	0.47	10	470	470
FN 2020-60-24	60 (69)	0.87	1	1.5	10	220	1100

### FN 2030 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2030-1-06	1 (1.1)	0.34	20	0.22	2.2	1000	58
FN 2030-3-06	3 (3.4)	0.52	14	0.33	3.3	1000	87
FN 2030-4-06	4 (4.5)	0.52	14	0.33	3.3	1000	92
FN 2030-6-06	6 (6.7)	0.73	8	0.47	4.7	680	100
FN 2030-8-06	8 (8.9)	0.73	8	0.47	4.7	680	170
FN 2030-10-06	10 (11.2)	0.73	8	0.47	4.7	680	196
FN 2030-12-06	12 (13.4)	0.87	4	1	10	330	185
FN 2030-16-06	16 (17.9)	0.87	4	1	10	330	225
FN 2030-20-06	20 (22.4)	0.87	4	1	10	330	285
FN 2030-30-08	30 (33.5)	0.87	2	1	10	330	326

## Single-Phase RFI Filters

### FN 2060 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2060-1-06	1 (1.2)	0.734	12	0.22	4.7	1000	120
FN 2060-3-06	3 (3.5)	0.734	2.5	0.22	4.7	1000	120
FN 2060-6-06	6 (6.9)	0.734	0.97	0.22	4.7	1000	120
FN 2060-10-06	10 (11.5)	0.734	0.8	0.47	4.7	470	190
FN 2060-12-06	12 (13.8)	0.734	0.58	0.47	4.7	470	190
FN 2060-16-06	16 (18.4)	0.734	0.65	0.33	4.7	1000	260
FN 2060-20-06	20 (23)	0.734	0.6	1	4.7	220	480
FN 2060-30-08	30 (34.5)	0.867	0.6	1	10	220	950

### FN 2070 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2070-1-06	1 (1.2)	0.734	22	0.33	4.7	1000	190
FN 2070-3-06	3 (3.5)	0.734	9.8	0.47	4.7	470	250
FN 2070-6-06	6 (6.9)	0.734	7.8	1	4.7	220	450
FN 2070-10-06	10 (11.5)	0.734	4.5	1	4.7	220	670
FN 2070-12-06	12 (13.8)	0.734	3.25	1	4.7	220	670
FN 2070-16-06	16 (18.4)	0.734	2.8	1	4.7	220	1000
FN 2070-25-08	25 (28.8)	0.734	2	2.2	4.7	220	760
FN 2070-36-08	36 (41.4)	0.867	1.23	2.2	4.7	220	790

### FN 2080 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2080-1-06	1 (1.2)	0.734	22	0.33	4.7	1000	200
FN 2080-3-06	3 (3.5)	0.734	9.8	0.47	4.7	470	270
FN 2080-6-06	6 (6.9)	0.734	7.8	1	4.7	220	470
FN 2080-10-06	10 (11.5)	0.734	4.5	1	4.7	220	750
FN 2080-12-06	12 (13.8)	0.734	3.25	1	4.7	220	750
FN 2080-16-06	16 (18.4)	0.734	2.8	1	4.7	220	1020

### FN 2090 250VAC

|||SCHAFNER



FUSECO PART NUMBER	RATED CURRENT @40°C (25°C) (A)	LEAKAGE CURR @ 230VAC/50Hz (mA)	INDUCTANCE L (mH)	CAPACITANCE CX (μF)	CAPACITANCE CY (nF)	RESISTANCE R (KΩ)	WEIGHT (g)
FN 2090-1-06	1 (1.1)	0.5	20	0.22	2.2	680	73
FN 2090-3-06	3 (3.4)	0.5	14	0.33	2.2	470	158
FN 2090-4-06	4 (4.5)	0.5	14	0.33	2.2	470	176
FN 2090-6-06	6 (6.7)	0.67	8	0.47	3.3	330	191
FN 2090-8-06	8 (8.9)	0.67	8	0.47	3.3	330	330
FN 2090-10-06	10 (11.2)	0.67	8	0.47	3.3	330	369
FN 2090-12-06	12 (13.4)	1.02	4	1	10	220	391
FN 2090-16-06	16 (17.9)	1.02	4	1	10	220	425
FN 2090-20-06	20 (22.4)	1.02	2.7	1	10	220	530
FN 2090-30-08	30 (33.5)	1.02	1.5	1	10	220	548

# Three-Phase RFI Filters

Single-phase filters for chassis or DIN-rail mounting are key for EMC compliance of higher power office equipment and low to medium power industrial applications.

A broad selection of electrical and mechanical features allows a specific choice and deployment for countless applications.

DC filters are specifically optimised for applications with DC supply (e.g. PV inverters).

THREE-PHASE FILTERS	max voltage	Attenuation performance			features											typical applications						
		standard	high	very high	Multi-stage filter circuit	Safety connector blocks	Busbar connection	Optional protective covers	Standard protective covers	Offering EMC compliance	Low leakage current	Less commutation notches	Inrush current limitation	Harmonics reduction	4% impedance	Inverters, servo drives	Energy regeneration drives	Machinery, machine tools	Industrial automation	General purpose		
FN 3258	480 VAC 520 VAC (H)	7	180			•				•								•			•	•
FN 3359	520 VAC 690 VAC (H)		150	2500	•		•	•		•								•	•	•	•	
FN 258	480 VAC 690 VAC (H)	7	250		•	•				•	•							•		•	•	•
FN 351	440 VAC 520 VAC (H)	8	280			•				•								•			•	•
FN 3025	520 VAC	10-50				•			•	•	•							•			•	•
FN 3026	520 VAC	10-50				•			•	•	•							•			•	•
FN 3100	520 VAC	35	300			•				•								•	•	•	•	
FN 3120H	520 VAC (H)	25	230			•				•								•	•	•	•	
FN 3268	520 VAC	7	180			•				•	•							•		•	•	•
FN 3270H	520 VAC (H)	10		1000	•	•	•			•								•		•	•	•

## Three-Phase RFI Filters

### Key Features

- Industry standard EMC solution for three-phase PDS filtering
- Slim space-saving book-style housing
- Solid safety connector blocks or optional wire output connections

- Excellent attenuation performance
- HV versions for up to 690VAC
- HVIT versions for IT distribution networks
- P/L versions with low leakage current



### FN 258 480VAC



FUSECO PART NUMBER	RATED CURR @ 50°C (40°C) (A)	TYPICAL DRIVE POWER RATING (kW)	LEAKAGE CURR @ 440VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
FN 258-7-29	7 (7.7)	4	16.5	9	1.0
FN 258-16-29	16 (17.5)	7.5	18.3	20	1.4
FN 258-30-33	30 (33)	15	24.2	21	1.7
FN 258-42-33	42 (46)	22	25.8	30	2.5
FN 258-55-34	55 (60)	30	25.8	30	2.9
FN 258-75-34	75 (82)	37	25.8	24	3.9
FN 258-100-35	100 (110)	55	25.8	51	5.5
FN 258-130-35	130 (143)	75	30.0	50	6.9
FN 258-180-40	180 (197)	90	30.0	73	11.0
FN 258-250-40	250 (275)	132	30.0	79	12.0

### FN 258L 480 VAC ULTRA LOW LEAKAGE

FN 258L-7-29	7 (7.7)	4	0.8	9	1.0
FN 258L-16-29	16 (17.5)	7.5	0.8	20	1.4
FN 258L-30-33	30 (33)	15	0.8	21	1.7
FN 258L-42-33	42 (46)	22	0.7	30	2.5
FN 258L-55-34	55 (60)	30	0.7	30	2.9
FN 258L-75-34	75 (82)	37	0.7	24	3.9
FN 258L-100-35	100 (110)	55	0.7	51	5.5
FN 258L-130-35	130 (143)	75	0.7	50	6.9
FN 258L-180-40	180 (197)	90	0.7	73	11.0
FN 258L-250-07	250 (275)	132	0.7	79	12.0

### FN 3258 480VAC



FUSECO PART NUMBER	RATED CURRENT @ 50°C (40°C) (A)	TYPICAL DRIVE POWER RATING (kW)	LEAKAGE CURR @ 400VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
FN 3258-7-45	7 (7.7)	4	33.0	3.8	0.5
FN 3258-16-45	16 (17.5)	7.5	33.0	6.1	0.8
FN 3258-30-47	30 (32.9)	15	33.0	11.8	1.2
FN 3258-42-47	42 (46.0)	22	33.0	15.7	1.4
FN 3258-55-52	55 (60.2)	30	33.0	25.9	2.0
FN 3258-75-52	75 (82.2)	37	33.0	32.2	2.7
FN 3258-100-35	100 (109.5)	55	33.0	34.5	4.3
FN 3258-130-35	130 (142.4)	75	33.0	43.1	4.5
FN 3258-180-40	180 (197.1)	90	33.0	58.3	6.0

### FN 3359 520VAC



FUSECO PART NUMBER	RATED CURRENT @ 50°C (40°C) (A)	TYPICAL DRIVE POWER RATING (kW)	LEAKAGE CURR @ 480VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
FN 3359-150-28	150 (164)	75	<6	24	6.5
FN 3359-180-28	180(197)	90	<6	34	6.5
FN 3359-250-28	250 (250)	132	<6	49	7.0
FN 3359-320-99	320 (350)	160	<6	19	10.5
FN 3359-400-99	400 (438)	220	<6	29	10.5
FN 3359-600-99	600 (657)	315	<6	44	11.0
FN 3359-800-99	800 (876)	400	<6	39	18.0
FN 3359-1000-99	1000 (1095)	560	<6	60	18.0
FN 3359-1600-99	1600 ( 1600)	900	<6	131	27.0
FN 3359-2500-99	2500 (2500)	1320	<6	300	55.0



## Three-Phase and Neutral Line RFI Filters



### FN 256 480VAC



FUSECO PART NUMBER	RATED CURRENT @ 50°C (40°C) (A)	TYPICAL DRIVE POWER RATING (kW)	LEAKAGE CURR @ 400VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
<b>FN 256-8-46</b>	8 (8.8)	4	16.5	2.7	0.8
<b>FN 256-16-46</b>	16 (17.5)	7.5	18.3	6.0	1.1
<b>FN 256-25-47</b>	25 (27)	15	24.2	11.6	1.4
<b>FN 256-36-47</b>	36 (39)	22	25.8	15.8	1.5
<b>FN 256-64-52</b>	64 (70)	30	25.8	18.4	2.2
<b>FN 256-80-34</b>	80 (88)	37	25.8	18.8	4.5
<b>FN 256-120-35</b>	120 (131)	55	25.8	25.1	6.1
<b>FN 256-160-40</b>	160 (175)	75	30.0	30.7	8.0

### FN 3256H 520VAC



FUSECO PART NUMBER	RATED CURRENT @ 50°C (40°C) (A)	TYPICAL DRIVE POWER RATING (kW)	LEAKAGE CURR @ 480VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
<b>FN 3256H-8-29</b>	8 (8.8)	4	<1	2.7	0.6
<b>FN 3256H-16-29</b>	16 (17.5)	7.5	<1	5.0	0.7
<b>FN 3256H-25-33</b>	25 (27)	15	<1	9.8	1.1
<b>FN 3256H-36-33</b>	36 (39)	22	<1	11.3	1.2
<b>FN 3256H-64-34</b>	64 (70)	30	<1	17.2	2.3
<b>FN 3256H-80-35</b>	80 (88)	37	<1	14.5	3.5
<b>FN 3256H-120-35</b>	120 (131)	55	<1	25.0	4.7
<b>FN 3256H-160-40</b>	160 (175)	75	<1	26.9	5.7

### FN 3280H 520VAC



FUSECO PART NUMBER	RATED CURRENT @ 50°C (40°C) (A)	LEAKAGE CURR @ 480VAC/50Hz (mA)	POWER LOSS @ 25°C/50Hz (W)	WEIGHT (kg)
<b>FN 3280H-8-29</b>	8 (8.8)	<1	2.7	0.8
<b>FN 3280H-16-29</b>	16 (17.5)	<1	6.0	0.8
<b>FN 3280H-25-33</b>	25 (27)	<1	11.6	1.3
<b>FN 3280H-36-33</b>	36 (39)	<1	14.8	1.6
<b>FN 3280H-64-34</b>	64 (70)	<1	18.4	2.7
<b>FN 3280H-80-35</b>	80 (88)	<1	18.9	4.1
<b>FN 3280H-120-35</b>	120 (131)	<1	28.5	5.9
<b>FN 3280H-160-40</b>	160 (175)	<1	30.7	7.9
<b>FN 3280H-200-40</b>	200 (219)	<1	46.8	8.5
<b>FN 3280H-300-99</b>	300 (328)	<1	20.3	10.0
<b>FN 3280H-400-99</b>	400 (438)	<1	36.0	10.0
<b>FN 3280H-600-99</b>	600 (657)	<1	64.8	11.0