

SHORT FORM CATALOG

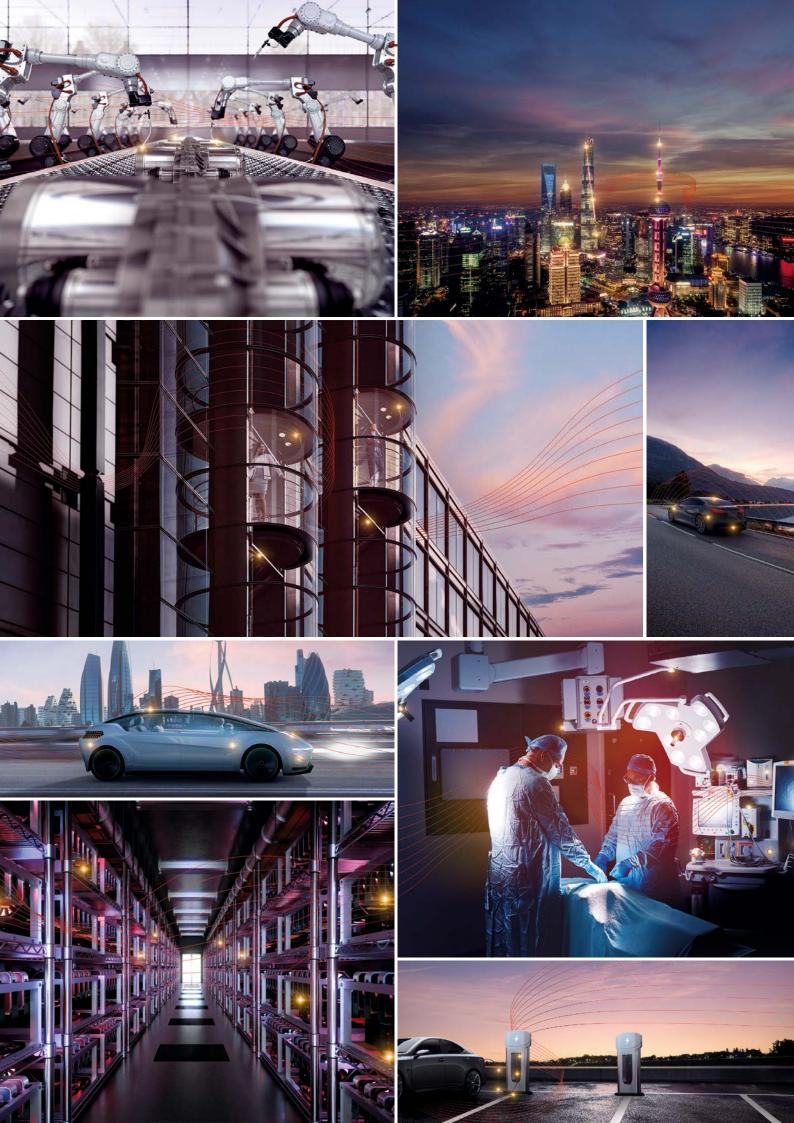
EMC/EMI & Power Quality Filters and Components





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About Us

The Schaffner Story

Schaffner plays a vital role in building a sustainable future in the new era of electrification. Headquartered in Switzerland and with subsidiaries around the world, Schaffner is a global leader in electromagnetic solutions that ensure the efficient and reliable operation of electronic systems. The Schaffner Group are experts in EMC filter solutions, harmonic filters, electromagnetic components and electromagnetic solutions. Our passionate and knowledgeable employees empower our customers to develop reliable electronic devices and systems that meet compliance standards and deliver increased energy efficiency.

This is how we deliver...

MORE POWER TO YOU.

Industries



Machinery & Robotics
Motor Drive, Machinery, Factory
Automation, Robotics



Building Technology HVAC, Elevator, Lighting, Heat Pump



Energy Management Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas



Medical Data
Medical Com
Equipment, Data
Laboratory Netw
Equipment



Data & Communication Datacenter, Networks

DC Filters



FN2200	•	•	
FN2210, FN2211		•	
FN2210HV, FN2211HV			
FN2220, FN2230, FN2240			

Single-Phase Filters



•				
FN2010		•	•	
FN2020				
FN2030		•		
FN2060		•		
FN2070, FN2071	•	•		
FN2080	•	•		
FN2090, FN2091	•	•		
FN2410, FN2412	•			
FN2415	•			
FN2450	•	•		
FN2500, FN2520	•	•		
FN2560				
FN2580				
FN332				
FN343		•		
FN350	•			
FN352Z, FN353Z		•		
FN700Z				
LIS140C-1E				

3-Phase Filters



FN3025, FN3026	•		•	•	
FN3030, FN3040 NEW	•	•		•	
FN3100	•				
FN3120H	•				
FN3258	•				
FN3268	•			•	
FN3270, FN3271					
FN3287, FN3288		•		•	
FN3310, FN3311	•	•			
FN3310HV, FN3311HV	•				
FN3359	•				
FN3840	•	•			
FN351H	•	•			





Machinery & Robotics
Motor Drive, Machinery, Factory Automation, Robotics



Building Technology HVAC, Elevator, Lighting, Heat Pump



Energy Management Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas



Medical Medical Equipment, Laboratory Equipment



Data & Communication Datacenter, Networks

3-Phase Filters with Neutral



FN3256H			•	
FN3280H	•	•		
FN354		•	•	
FN355				

IEC Inlet Filters and Power Entry Modules



	•		
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EMC/EMI Chokes



ED Common Mode Chokes				
EV/EH Common Mode Chokes		•	•	
RC Common Mode Chokes	•	•	•	
RI Saturation Chokes	•			
RN Common Mode Chokes				
RS Differential Mode Chokes	•	•	•	
RT Common Mode Chokes NEW	•		•	
RR1000 NEW	•	•	•	
RV Common Mode Chokes NEW	•	•		

Industries



Machinery & Robotics
Motor Drive, Machinery, Factory Automation, Robotics



Building Technology HVAC, Elevator, Lighting, Heat Pump



Energy Management Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas



Medical Medical Equipment, Laboratory Equipment



Data & Communication Datacenter, Networks

PCB Filters



FN402			
FN405		•	•
FN406	•	•	
FN409	•		
EN/410			

Feedthrough Capacitors & Filters



FN7510, FN7511, FN7512, FN7513, FN7514		•	•
FN7560, FN7561, FN7562, FN7563			•
FN7611, FN7612		•	•
FN7660, FN7661			

Accessories



IL13, 13 P, 19 Power Cords with Locking System			
IL13P Angled IEC Lock C13			
IL13P Rewireable IEC Locking Connector			
IL13P Rewireable Angled Locking Connector			





Machinery & Robotics
Motor Drive, Machinery, Factory Automation, Robotics



Building Technology HVAC, Elevator, Lighting, Heat Pump



Energy Management Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas



Medical Equipment, Laboratory Equipment





Communication Datacenter, Networks

Active Harmonic Filters



FN3530, FN3531, FN3540, FN3541				•	
FN3532, FN3542	•			•	
FN3545	•			•	
SYNC300A SYNC300X	_	_	_	_	

Passive Harmonic Filters



FN3440, FN3442, FN3450, FN3452			
FN3441, FN3443, FN3451, FN3453	•		
FN3446, FN3458 NEW			
FN3470, FN3472, FN3480, FN3482			
FN3471, FN3473, FN3481, FN3483			
FN3416LV, FN3418LV			

Output Filters



FN5060, FN5060HV			
FN5420 NEW , FN5040HV			
FN530	•		

Reactors



RWK3044, RWK3062	•	•		
RWK305, RWK5420 NEW				

LCL Filters



FN6840	•	•	

Product Selection EMC/EMI

			E	MC/EMI Filters	s & Componen	ts						
	Sin	igle-Phase Filt	ers		DC Filters		3-Phase Filters					
PCB Filters	Feedthrough Components	Chassis Mount Filters			DC Filters	3-Phase	e Filters		e Filters Ieutral			
≤10 A FN402 FN405 FN406 FN409 FN410	\$250 A Capacitors FN7510 FN7511 FN7512 FN7513 FN7514 FN7560 FN7561 FN7562 FN7563 Filters FN7611 FN7612 FN7660 FN7661	≤100 A Standard Performance FN2010 FN2020 FN2410 FN2412 FN2450 FN332 FN350	≤36 A High Performance FN2030 FN2060 FN2070 FN2071 FN2080 FN2415 FN2500 FN343	≤32 A Very High Perfor- mance FN2090 FN2091 FN2520 FN2560 FN2580 FN352Z FN353Z FN700Z	25 A-2300 A FN2200 FN2211 FN2210 FN2211HV FN2210HV EV- Charging Application FN2230 FN2231 FN2220 FN2221 FN2240 FN2241	≤300 A FN3025 FN3026 FN3030 FN3040 FN3100 FN3120H FN3258 FN3287 FN3288 FN3268	25 A-2300 A FN3270 FN3271 FN3310 FN3311 FN3310HV FN3311HV FN3359	3 A-30 A FN354 FN355	8 A-600 A FN3256H FN3280H			
Page 18	Page 19	Page 13	Page 13	Page 13	Page 12	Page 14	Page 14	Page 15	Page 15			

	IEC Inlet Filters/Powe	er Entry Modules PEM	
IEC Inlet Filters	PEM with Fuse or Switch	PEM with Fuse and Switch or Voltage Selector	Power Cords with Filters
≤20 A FN2640 FN2660 FN9222 FN9222 FN9226 FN9233 FN9233E FN9244 FN9244 FN9246 FN9255 FN9255 FN9274	≤10 A FN9260 FN9262 FN9264 FN9266 FN261	≤10 A FN1390 FN9280 FN9280E FN9290 FN9299 FN280 FN370 FN372 FN378 FN379 FN380 FN390	≤10 A IF13
Page 16	Page 16	Page 16	Page 16

		EMC/EMI Chokes							
Saturation Chokes	Differential Mode Chokes	Common Mode Chokes							
≤25 A RI Series	≤4 A RS Series	Single-Phase 0.2 A-10 A ED Series EV/EH Series RC Series RN Series RS Series 6 A-63 A RT Series RV Series	3-Phase 6 A-63 A RT Series	3-Phase with Neutral 6 A-50 A RV Series					
Page 17	Page 17	Page 17	Page 17	Page 17					



Product Selection PQ

	Harmonic Filters	
M	litigation Requiremer	nt
Active FN3530 FN3531 FN3540 FN3541 FN3532 FN3542 FN3545	Passive <250 kW FN3440 FN3441 FN3442 FN3443 FN3450 FN3451 FN3452 FN3453 FN3453 FN3466 FN3458 FN3416LV FN3418LV	Passive ≥250 kW FN3470 FN3471 FN3472 FN3473 FN3480 FN3481 FN3482 FN3483
Page 21	Page 22	Page 22

3-Pha	se Reactors and LCL	Filters	Output Filters				
Line	Side	Load Side	Voltage Shape				
Line Reactors 4% ≤1000 A RWK3044 RWK3062	LCL Filters 50 A FN6840	Load Reactors 0.8% ≤1000 A RWK305 6% ≤1000 A RWK5420	dv/dt Filters ≤1200 A FN5060 FN5060HV	Sine Wave Filters ≤1320 A FN5040HV FN5420 FN530			
Page 24	Page 24	Page 23	Page 23	Page 23			

DC Filters

		optimized for appliced of the second of the			/				ı	Feat	ure	s
c ¶u °us ←	Family	Max. Voltage	25	Rated Curre	ent [A] 250 n Performance high	600	1000 very high	2300	1-stage filter circuit	2-stage filter circuit	Low frequency attenuation	High frequency attenuation
00.			25	54414414			, , , , , , , , , , , , , , , , , , ,	2300				
	FN2200	1200 VDC							•		•	•
	FN2210	1000 VDC			250			2300				
11	FN2211	1000 VDC							-		•	•
	FN2210HV	1500 VDC			250			2300				
11	FN2211HV	1300 VDC							_		_	_
N III	FN2220	1000 VDC		150		600						
	FN2221	1000 VDC								_	_	_
D.D.	FN2230	500 VDC		150		600					_	
	FN2231	300 VDC									•	•
	FN2240	1000 VDC		150		600					_	
	FN2241	1000 VDC								•	•	•

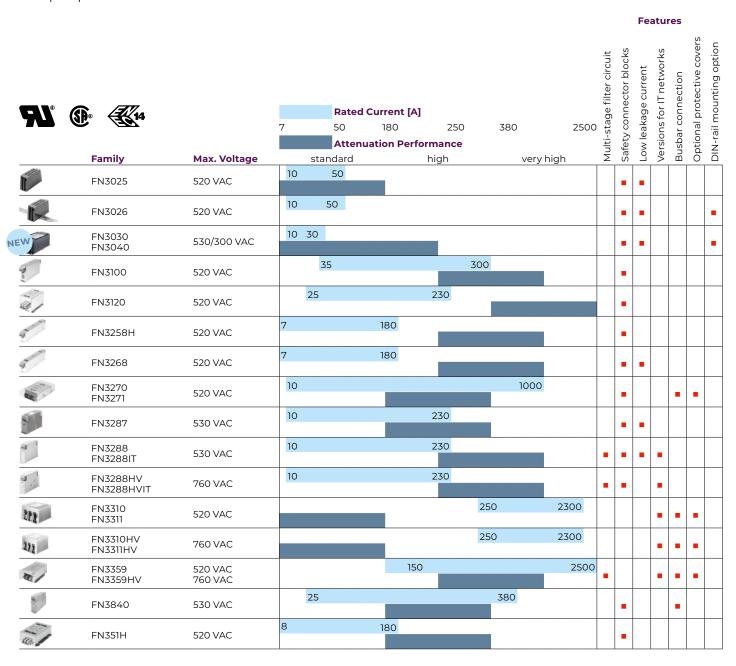


Single-Phase Filters

Single-phase filters for chassis or DIN-rail mounting are key for EMC **Features** compliance of low to medium power industrial applications. A broad High frequency attenuation selection of electrical and mechanical features allows a specific choice Low frequency attenuation and deployment for countless applications. Multiple terminal choice Overvoltage protection Choice of connectors TEMPEST protection **DIN Rail Mounting** Rated Current [A] 10 20 40 60 100 **Attenuation Performance** Family Max. Voltage high very high FN2010 250 VAC/VDC 60 FN2020 250 VAC/VDC 30 FN2030 250 VAC/VDC 30 FN2060 250 VAC/VDC 36 FN2070 250 VAC/VDC FN2071 16 FN2080 250 VAC/VDC 30 FN2090 250 VAC/VDC 100 8 FN2410 250 VAC FN2410H 520 VAC 8 45 FN2412 250 VAC FN2412H 520 VAC 6 20 FN2415 250 VAC 6 20 FN2450 250 VAC 10 32 277 VAC FN2500 400 VDC 10 32 277 VAC FN2520 400 VDC 8 300 VAC FN2560 300 VDC 8 350 VAC FN2580 10 FN332 250 VAC 10 FN343 250 VAC 8 55 FN350 250 VAC 6 10 FN352Z 250 VAC FN353Z 20 6 FN700Z 250 VAC 40 LIS140C-1E 230 VAC

3-Phase Filters

EMC/EMI filter solutions for industrial applications like motor drives, machine tools and robotics. Furthermore, these types of filters are also suitable for renewable energy, energy storage, EV-charging stations, and a vast array of other 3-phase power electronics. Many types are available in low leakage current versions and are ideal for HVAC applications such as heat pumps.

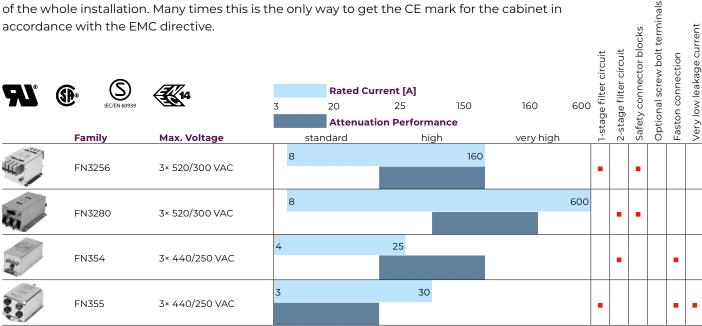




Features

3-Phase with Neutral Line Filters

3-phase with neutral line filters are a compact solution for interference suppression on the mains input of cabinets and control units of equipment, ranging from industrial applications like machine tools to sensitive medical installations. These installations typically involve several and often insufficiently filtered frequency inverters and SMPS, causing current imbalance and significant interference problems. As individual elements they may be interference suppressed already. The conjunction of several switching components in the same cabinet and a non EMC conscious cabling will increase the demand for an additional EMC/EMI filter on the mains input of the whole installation. Many times this is the only way to get the CE mark for the cabinet in



IEC Inlet Filters and Power Entry Modules

	and compact combinat	ion of IEC co	nnector, I	EMC/E	MI filte	er, fuses,	switc	h and				Fe	atur	es			9
voltage sel	ector in one package. Family	Max. Voltage	2	ttenuat	6 ion Per	10 formance	V	15 ery high	20	Fuse(s)	Switch (2-pole)	Voltage selector	Snap-in version	Extra wide mounting	Earth line choke	PCB mounting	Multiple terminal choice
	FN9222	250 VAC	1					o.yg	20								
	FN9222E	250 VAC	1					15					•	•	-		
	FN9226	250 VAC	1			10										•	•
	FN9233	250 VAC	1					15					•				
	FN9233E	250 VAC	1					15					•	•	•		
	FN9244	250 VAC	1					15					•				
	FN9244E	250 VAC	1					15					•	•	-		
	FN9246	250 VAC	1						20								
100	FN9255	250 VAC		2					20								
	FN9255E	250 VAC		2				15							-		
	FN9260 FN261	250 VAC	1			10							•				
	FN9262 FN9266	250 VAC	1			10											
	FN9264	250 VAC	1			10											
6	FN9274	250 VAC	1					15									
	FN9280	250 VAC	1			10)										
	FN9280E	250 VAC	1			10)			•			•		-		
	FN9290 FN9299	250 VAC	1			10											
E.	FN2640	250 VAC					10		20								
馬馬	FN2660	250 VAC					10		20								
9 ,	FN280, FN281, FN282, FN283 FN284, FN285, FN286	250 VAC	1			10							•				
	FN370, FN372, FN378, FN379	250 VAC		2	6	FN379	ı					•	•				
	FN380, FN382, FN385B FN388, FN389	250 VAC		2	6	FN389											
	FN390 (6 A) FN1390 (10 A)	250 VAC	1			10	FN1393	5/94.				•			•		
	IF13	250 VAC					10	, 5 1									
(fact)												ш			ш		



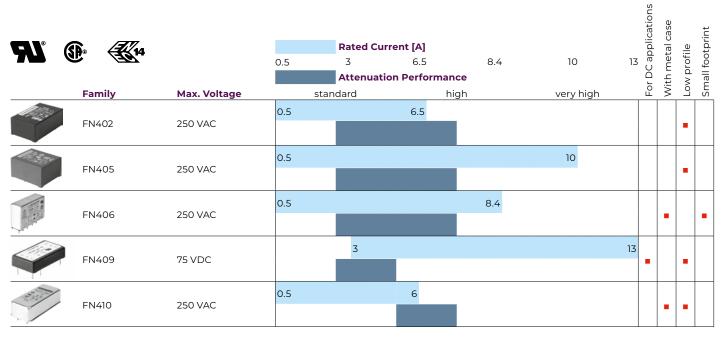
EMC/EMI Chokes

An extensive selection of discrete EMC/EMI chokes with various inductance and **Features** High differential mode inductance current ratings allows optimized circuitry for EMC compliance to be designed easily and economically. Differential mode choke Common mode choke 3-phase with neutral Saturation choke DC application Rated Current [A] 0.2 0.7 50 Inductance Value [mH] up to Max. Voltage Ω 20 80 **Family** 40 60 0.2 2 ED series 300 VAC 0.3 5 EV/EH series 250 VAC 0.25 0.7 250 VAC 1000 VDC 1.5 25 RI series 250 VAC 0.3 10 300 VAC RN series 300 VDC 0.3 4 RS series 250 VAC 3.6 6 63 600 VAC RT series 425 VDC 50 16 530 VAC RV series 1000 VDC The stackable common mode chokes are typically applied over cable bundles and need RR1000 no further electrical connection.

PCB Filters

Very compact EMI suppression components can directly be mounted on printed circuit boards of low-power office, medical, telecom and IT equipment, DC/DC converters and power supplies etc. Ideal low cost solution for manufacturers who already planned for EMC compliance throughout the equipment design process.

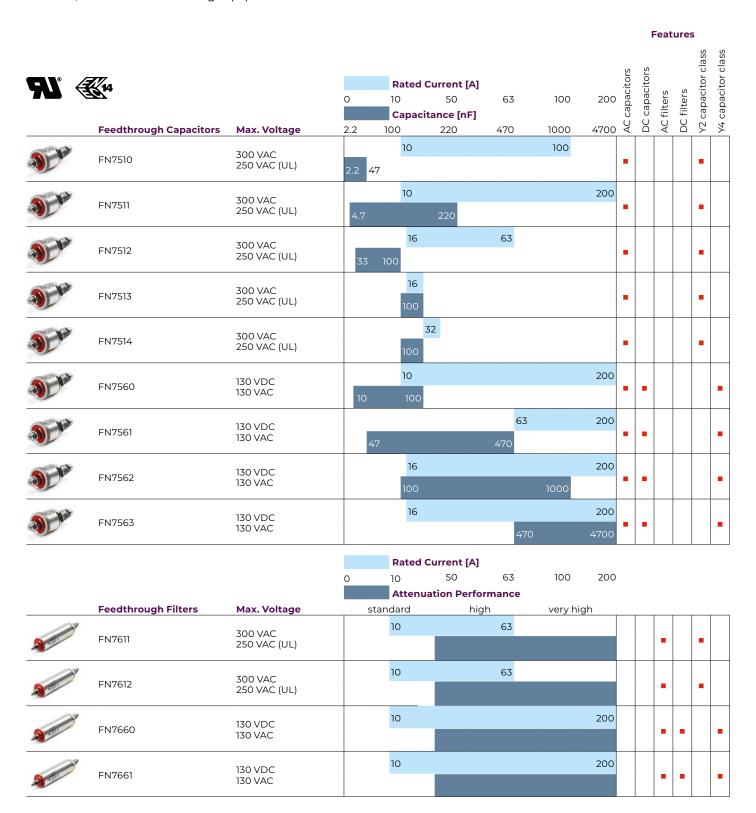
Features





Feedthrough Components

Interference suppression up into the GHz range for high-tech applications such as IT, telecom, server and networking equipment.



Power Cords with Locking Systems

Guarding against accidental disconnection of all electrical appliances with an IEC inlet, no exchange or modification of the IEC inlet or IEC inlet filter is needed. An easy retrofit for all electronic equipment and devices is possible.

10 m	C14 line side plug IEC C14 male, straight	C20 line side plug IEC C20 male, straight	EU1 line side plug CEE7/VII right angled	USI line side plug NEMA5–15 eat straight	US2 line side plug NEMA5–15 as straight hospital grade	UK1 line side plug BS1363, right angled, fused 5 A	CH1 line side plug SEV1011 straight	JP1 line side plug JIS8303 straight
×	•		•		•	•	•	•
		•	•			•		







A I	Keur <	E	■ Stan × On R							4 line side ale, straig	20 line sid ale, straig	JI line side ght angled	SI line side raight	JS2 line sid traight hos	(1) line side (3) the angle	41 line sid raight	'I line side raight
	Family	Max. Voltage	6 ft	2 m	3 m	9 ft	12 ft	5 m	10 m	C E	ÜΕ	리·5	S fs	St. US	Ş į	St C	JP1 stra
	IL13	250 VAC	•	•	×	•	•	×	×	-		•	-	•	•	•	•
	IL19	250 VAC		•							-	-	-		•		
	IL13P	250 VAC	Rev	vireak	ole Co	nnec	tors w	/ith L	ockin	g Sys	stem	1					



Features

rs without L_{dc}

Active Harmonic Filters

Active harmonic filters are suitable for mixed load installations and applications with dynamic load. Commonly used as a central solution at Point of Common Coupling (PCC). Ecosine Active Sync harmonic filters provide a reliable solution for harmonic mitigation, power factor correction and load balancing in real time. The modular concept offers highest flexibility for customization, redundancy, retrofitting and combination with passive harmonic mitigation components.

CE EK	c ÜL) us L is	TED		Rat	ted Mi	tigatio	on Curr	rent [/	A]		· 50 Hz grids	· 60 Hz grids	[.] 6 pulse diode rectifier	For 6 pulse diode rectifier	For 6-pulse SCR rectifiers	THDi <5%	Power factor correction	Load balancing	3-phase/3-wire	3-phase/4-wire
	Family	Nom. Voltage*	60	120	180	240	300	600	900	1200	For	For	For	<u>P</u>	Ē	Ŧ	<u>8</u>	Ě	3-6	3-6
Turkey .	FN3530 FN3531	200-480 VAC	60 A								-	•	•	•	•	•	•	•	•	
Take I	FN3540 FN3541	200-415 VAC	60 A								•			•		•	•	•		•
High speed Bus	FN3532	200-480 VAC	-	120 A							•	•	•	•	•	•	•	•	•	
High speed Bus	FN3542	200-415 VAC	1	120 A							•	•	•	•	•	•	•	•		•
	FN3545	200-480/415 VAC	60						120	00 A**	•	•	•	-	•	•	•	•	•	•

^{*} New: Nom. Voltage range starting from 200 VAC

^{**} Up to 1200 A by combining multiple cabinets

Passive Harmonic Filters

Passive harmonic filters help to obtain compliance with international standards like e.g. IEEE 519-1992 or EN 61000-3-12, and with local utility codes. They reduce electrical and thermal stress upon the electrical infrastructure, eliminate the risk of harmonics-related reliability problems, and support long-term energy efficiency and cost savings. Ecosine passive harmonic filters are the industry standard for 6-pulse rectifiers and non-regenerative motor drives to achieve the often specified level of THDi <5%.

F	ea	ıtι	ıre	25

ifiers with L_{dc}

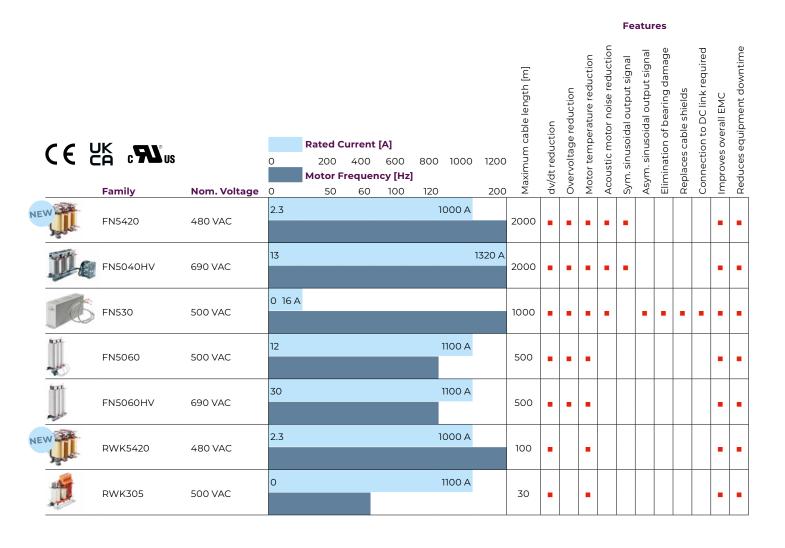
1	
	For 6 pulse diode rect
	For 6 pulse diode rect
	For 6-pulse SCR rectif
	Full performance THD
	Economy THDi 5-15%

CE	UK c Al us	S C UL US LISTED		Rated Power [k	W/HP]		For 50 Hz grids	For 60 Hz grids	For 6 pulse diode	For 6 pulse diode	For 6-pulse SCR	Full performance	Economy THDi 5	3-phase/3-wire
	Family	Nom. Voltage	0 100	200 300	400 500	600	For	For	For	For	For	I.	ECC	3-p
	FN3440	380-415 VAC	1.1	250 kW			•		•	•	•	•		•
	FN3441	380-415 VAC	1.1	250 kW			•			•		•		•
	FN3442	380-415 VAC	1.2	240 HP				•		•	•	•		•
	FN3443	380-415 VAC	1.2	240 HP				•		•		•		•
	FN3450	440-500 VAC	1.1	315 kW			•		•	•	•	•		•
	FN3451	440-500 VAC	1.1	315 kW			•			•		•		•
	FN3452	440-480 VAC	1.5	300 HP				•	•	•		•		•
100	FN3453	440-480 VAC	1.5	300 HP										
	FN3470	380-415 VAC		250	500 kW				•	•		•		
	FN3471	380-415 VAC		250	500 kW		•			•				•
	FN3472	380-415 VAC		280	480 HP					•		•		
i i	FN3473	380-415 VAC		280	480 HP			•	•	•				•
	FN3480	440-480 VAC		315	560	k\\\	•			•		•		-
2	FN3481	440-480 VAC		315	560				•	•				•
8.	FN3482	440-480 VAC		313					•	•		•		•
	FN3483	440-480 VAC			350	600 HP			•	•			_	_
N N	FN3446	380-500 VAC			350	600 HP				_			_	•
N	FN3458	380-480 VAC		00 kW						_			_	_
ALL .	FN3416LV	200-240 VAC	5	300 HP			_	_	_	-	•		-	_
No.			2.5 90kW				-							
0	FN3418LV	200-240 VAC	2.5 125HP					•	•	•	-		•	•



Output Filters and 3-Phase Load Reactors

Schaffner offers a wide range of Power Quality motor protection devices. Improving the system reliability, availability and functionality to avoid expensive downtimes of installations, manufacturing plants, machinery and other applications caused by premature motor damage. Dv/dt reactors reduce the voltage rise induced by the pulse wide modulation generated by the variable frequency drive, dv/dt filters reduce the voltage rise even further and the voltage peaks at the motor terminals. Sine wave filters are differential mode low-pass filters providing a sinusoidal phase-to-phase output voltage and allow the use of cables up to 2'000 m long, eliminate the bearing currents and reduce acoustic noises.



3-Phase Line Reactors and LCL Filters

Line side harmonic mitigation solutions for industrial applications like motor drives

mitigation v harmonic fi	with possibli lter. LCL filte	tive infeed con ity to combine ers protect the	with grid	n othe	r filterin	g soluti	ons like	an ac	tive		of			Fea	atur	es		oles		
CE UK		active front end	0	200	Rated M 400	i itigation 600	Current 800	[A] 1000	<1000	For 50 Hz grids	For 60 Hz grids	For 6-pulse diode rectifiers	For 6-pulse SCR rectifiers	For Active Front End	Less commutation notches	Inrush current limitation	Harmonics reduction	Reduces the current and voltage ripples	4% impedance	2% impedance
THE STATE OF THE S	RWK3044	380-480 VAC	2					1000		•	•	•	•		•	•	•		•	
#	RWK3062	500-690 VAC	1.5				870			•	•	•	•		•	•				•
	FN6840	380-480 VAC	50							•	•			•	•	•	•	•		



Headquarters, Global Innovation and Development

Switzerland

Schaffner Group

Industrie Nord Nordstrasse 11 e 4542 Luterbach P + 41 32 681 66 26 info@schaffner.com

Sales and **Application Centers**

China

Schaffner EMC Ltd. Shanghai

T20 - 3 C No 565 Chuangye Road Pudong district 201201 P + 86 21 38 139 500 cschina@schaffner.com

Finland

Schaffner Oy

Lohjanharjuntie 1109 08500 Lohja P + 358 50 468 72 84 finlandsales@schaffner.com

France

Schaffner EMC S.A.S.

16 - 20 Rue Louis Rameau 95875 Bezons P + 33 1 34 34 30 60 francesales@schaffner.com

Germany

Schaffner Deutschland GmbH

Schoemperlenstrasse 12 B 76185 Karlsruhe P + 49 721 56 910 germanysales@schaffner.com

India

Schaffner India Pvt. Ltd

Regus World Trade Centre WtC 22nd Floor Unit No 2238 Brigade Gateway Campus 26/1 Dr. Rajkumar Road Malleshwaram (W) 560055 Bangalore P + 91 80 679 35 355 indiasales@schaffner.com

Italy

Schaffner EMC S.r.l.

Via Ticino 30 20900 Monza (MB) P + 39 039 21 41 070 italysales@schaffner.com

Japan

Schaffner EMC K.K.

Taiju - Seimei Sangenjaya Bldg. 1 - 32 - 12 Kamiuma Setagaya-ku 154 - 0011 Tokyo P + 81 3 57 12 36 50 japansales@schaffner.com

Singapore

Schaffner EMC Pte Ltd.

05 - 09 Kg Ubi Ind. Estate 408705 P + 65 63 77 32 83 singaporesales@schaffner.com

Spain

Schaffner EMC España

Calle Caléndula 93 Miniparc III Edificio El Soto de Moraleja Alcobendas 28109 Madrid P + 34 917 912 900 spainsales@schaffner.com

Sweden

Schaffner EMC AB

Östermalmstorg 1 114 42 Stockholm P + 46 8 50 50 2425 swedensales@schaffner.com

Switzerland

Schaffner EMV AG

Industrie Nord Nordstrasse 11 e 4542 Luterbach P + 41 32 681 66 88 P + 41 32 681 66 26 switzerlandsales@schaffner.com

Taiwan

Schaffner EMV Ltd.

20 Floor - 2 No 97 Section 1 XinTai 5th Road 22175 XiZhi District New Taipei City 22175 P + 886 2 2697 55 00 taiwansales@schaffner.com

Thailand

Schaffner EMC Co. Ltd.

Northern Region Industrial Estate 67 Moo 4 Tambon Ban Klang Amphur Muang P.O. Box 14 51000 Lamphun P + 66 53 58 11 04 thailandsales@schaffner.com

United Kingdom

Schaffner Ltd.

Suite 1 Oakmede Place Terrace Road Binfield Berkshire RG42 4JF P +44 118 977 00 70 uksales@schaffner.com

USA

Schaffner EMC Inc.

52 Mayfield Avenue Edison New Jersey P + 1732 225 95 33 usasales@schaffner.com To find your local partner within Schaffner's global network, please visit schaffner.com.

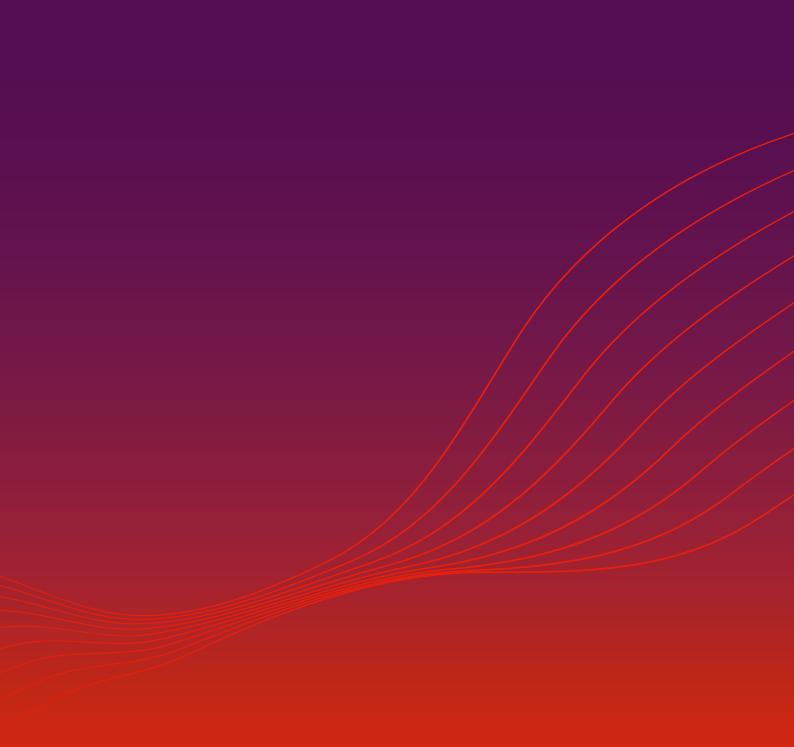
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Schaffner Group

Nordstrasse lle 4542 Luterbach Switzerland P + 41 32 681 66 26 info@schaffner.com

