

EMC/EMI & POWER QUALITY FILTERS AND COMPONENTS

Schaffner and Corcom - Short Form Catalog









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ABOUT US

Leveraging our combined strengths to drive product innovation and ensure the global supply chain resilience expected by our customers.

Schaffner is a leader and innovator in the EMC filters and power quality market, offering the broadest product range in the industry. TE Connectivity (TE) Corcom and Schaffner's combined product portfolio allows us to provide a stronger value proposition to customers and partners through accelerated product advancement, global field engineering capabilities, and a manufacturing footprint that provides for the global supply chain resilience our customers expect from their strategic suppliers.



Industries	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Lighting	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
DC Filters											
FN2200				•							•
FN2210, FN2211				•							•
FN2210HV, FN2211HV FN2220, FN2230, FN2240				•							•
EVX				×	×						
Single-Phase Filters											
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
FN2010			•	•	•	•			•		•
FN2020			•	•	•	•			•		•
FN2030			•	•	•	•			•		•
FN2060			•	•	•	•		•	•		•
FN2070, FN2071	•	•	•	•	•	•		•	•		•
FN2080	•	•	•	•	•	•		•	•		•
FN2090, FN2091	•	•	•	•	•	•		•	•		•
FN2410, FN2412 FN2415	•	•	•	<u> </u>	•			•			<u> </u>
FN2450					•	•		•	•		
FN2500, FN2520					•			•			
FN2560							•	•			
FN332				•	•	•			•		•
FN343				•	•	•					•
FN350	•	•									
FN352Z, FN353Z				•	•	•		•		•	•
FN700Z									•	•	•
LIS140C-1E B, VB, EB Style		×	×			×		•			•
EOP, EBD, EBP Style		^	_ ^								
FB Style							•				
H Style											
K, VK, EK Style		×	×			×					
R, VR, ER Style		×	×			×					
EP, VP Style		×	×			×					
FC Style	•	•	•			•					
HQ Style									•		
HT Style									×		-
MV Style S, VS Style						•			×		
VQ, EQ Style											
VSK, ESK Style	×	×	×			×					
VT, ET Style	•	•	•			•					
W, V W Style	×	×	×			×					
3-Phase Filters	1	1									
W.	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
		•		•	•				•		•
FN3025, FN3026					+					+	+
FN3025, FN3026 FN3100											•
	•	•									•

	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Lighting	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
3-Phase Filters											
FN3268	•										
FN3270, FN3271	•	•		•							
FN3287, FN3288	•								•		
	•	•				•			•		
FN3310, FN3311 FN3310HV, FN3311HV	•			•				•			•
	•			•							•
FN3359, FN3359HV FN3840	•			•	•						
FN351H								•			
	•	•						•			
KEB	×	×	×	×	×	×			×		
KEM	×	×	×	×	×	×			×		
KEH-BS	×	×	×	×	×	×			×		
APS/APH	×	×	×	×	×						
AHV	×	×	×	×	×						
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
FN3256H	•	•	•	•	•	•		•	•		•
FN3280H	•	•	•	•	•			•			•
FN354									•		
FN355					•				•		•
KES	×	×	×	×	×	×			×		
KEP	×	×	×	×	×	×			×		
KEV-BS	×	×	×	×	×	×			×		
IEC Inlet Filters and Power Entry Mo	odules										
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
FN2640, FN2660	•								•	•	
FN9222	•								•	•	
FN9222E	•								•	•	
FN9226	•								•	•	
FN9233	•								•	•	
FN9233E	•								•	•	
FN9244	•								•	•	
FN9244E	•								•	•	
	•									1	
FN9246									•	•	
FN9246 FN9255	•								•	•	
	•										
FN9255	•								•		
FN9255 FN9255E									•	•	
FN9255 FN9255E FN9260	•								•	•	
FN9255 FN9255E FN9260 FN9262	•								•		
FN9255 FN9255E FN9260 FN9262 FN9264	•								•	•	
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266	•								•	•	
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274	•								•	•	
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280	•								•		
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280E FN9290, FN9299									•		
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280E FN9290, FN9299 FN261									•		
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280E FN9290, FN9299 FN261 FN280											
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN280 FN370, FN372, FN378, FN379											
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN280 FN370, FN372, FN378, FN379 FN380											
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN370, FN372, FN378, FN379 FN380 FN390, FN1390											
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN370, FN372, FN378, FN379 FN380 FN390, FN1390 Power Cords with EMC-Filter IF13								•			
FN9255 FN9250 FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN370, FN372, FN378, FN379 FN380 FN390, FN1390 Power Cords with EMC-Filter IF13 EBF Style								•			
FN9255 FN9255E FN9260 FN9262 FN9264 FN9266 FN9274 FN9280 FN9280E FN9290, FN9299 FN261 FN280 FN370, FN372, FN378, FN379 FN380 FN390, FN1390 Power Cords with EMC-Filter IF13						* * * * * * * * * * * * * * * * * * *		•			

•-PREFERRED x-SUPPORTED | ■-SCHAFFNER ■-CORCOM

Industries	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Lighting	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
IEC Inlet Filters and Power Entry N	1odules										
GG, HG Style						×			×		
HP Series						•			•		
M Style						•			•		
P Style Filtered						•			•		
SRB Style						•					
CU Style Unfiltered											
C Style Unfiltered											
P Style Unfiltered											
EMC/EMI Chokes											
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
ED Common Mode Chokes	•						•	•			
EV/EH Common Mode Chokes				•	•			•	•	•	
RB Common Mode Chokes	•			•	•			•	•		
RC Common Mode Chokes	•	•	•	•	•	•		•	•	•	
RD Common Mode Chokes	•							•	•		
RN Common Mode Chokes	•	•	•	•	•	•		•	•	•	•
RT Common Mode Chokes	•	•		•	•			•	•		•
RV Common Mode Chokes	•	•		•	•			•			•
RR Series	•										•
PCB Filters	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing	Battery Energy Storage	Electric Vehicle In- frastructure	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con-	Medical	Data and Devices	Energy
			Equipment (SME)	System (BESS)	(EVI)			ditioning (HVAC)			
FN402				•	•				•	•	•
FN405				•	•				•	•	•
FN406				•	•			•	•	•	•
FN409				•	•			•		•	•
FN410				•	•			•		•	•
Feedthrough Capacitors & Filters	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning (HVAC)	Medical	Data and Devices	Energy
FN7510, FN7511, FN7512, FN7513, FN7514									•	•	
FN7560, FN7561, FN7562, FN7563										•	
FN7611, FN7612									•	•	
FN7660, FN7661										•	
Pulse Transformers											
IT series, single secondary winding	•			•	•			•			•
IT series, double secondary winding	•			•	•						•
Accessories											
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment	Battery Energy Storage System	Electric Vehicle In- frastructure (EVI)	Warehouse Automation	Outdoor LED Light- ing	Heating, Ventilation and Air Con- ditioning	Medical	Data and Devices	Energy
			(SME)	(BESS)	.=,			(HVAC)			
IL13, 13 P, 19 Power Cords with Locking System								•	•	•	•
IL13P Angled IEC Lock C13 IL13P Rewireable IEC Locking								•	•	•	•
Connector IL13P Rewireable Angled Locking								•	•	•	•
Connector											
MRI filter							•				
Line reactors - 1ph	•	•	•								
Line reactors - 3 ph - PREFERRED × - SUPPORTED	■-SCHAFF	NER ■- COR	сом	•	•	•		I			

Industries	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle Infrastruc- ture (EVI)	Warehouse Automa- tion	Outdoor LED Light- ing	Heating, Ventilation and Air Condition- ing (HVAC)	Medical	Data and Devices	Energy
Active Harmonic Filters											
i de la companya de l											
FN3530, FN3531, FN3540, FN3541			•		•				•		
FN3532, FN3542					•						
FN3545			•		•						
SYNC300A, SYNC300X			•		•				•		
Passive Harmonic Filters											
100 a	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle Infrastruc- ture (EVI)	Warehouse Automa- tion	Outdoor LED Light- ing	Heating, Ventilation and Air Condition- ing (HVAC)	Medical	Data and Devices	Energy
FN3440, FN3442, FN3450, FN3452		•									
FN3441, FN3443, FN3451, FN3453	•	•	•					•			
FN3446, FN3458 NEW	•	•	•								
FN3470, FN3472, FN3480, FN3482			•								
FN3471, FN3473, FN3481, FN3483	•	•	•								
FN3416LV, FN3418LV	•	•	•					•			
FN3416LV, FN3418LV Output Filters	•	•	•					•			
	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME)	Battery Energy Storage System (BESS)	Electric Vehicle Infrastruc- ture (EVI)	Warehouse Automa- tion	Outdoor LED Light- ing	Heating, Ventilation and Air Condition- ing (HVAC)	Medical	Data and Devices	Energy
	Motion &	Industrial	Semicon- ductor Man- ufacturing Equipment	Energy Storage System	Vehicle Infrastruc-	Automa-	LED Light-	Heating, Ventilation and Air Condition-	Medical		Energy
Output Filters	Motion & Drives	Industrial	Semicon- ductor Man- ufacturing Equipment	Energy Storage System	Vehicle Infrastruc-	Automa-	LED Light-	Heating, Ventilation and Air Condition-	Medical		Energy
Output Filters FN5060, FN5060HV	Motion & Drives	Industrial	Semicon- ductor Man- ufacturing Equipment	Energy Storage System	Vehicle Infrastruc-	Automa-	LED Light-	Heating, Ventilation and Air Condition- ing (HVAC)	Medical		Energy
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV	Motion & Drives	Industrial	Semicon- ductor Man- ufacturing Equipment	Energy Storage System	Vehicle Infrastruc-	Automa-	LED Light-	Heating, Ventilation and Air Condition- ing (HVAC)	Medical		
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV FN530	Motion & Drives	Industrial	Semicon- ductor Man- ufacturing Equipment	Energy Storage System	Vehicle Infrastruc-	Automa-	LED Light-	Heating, Ventilation and Air Condition- ing (HVAC)	Medical Medical		
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV FN530	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME) Semicon- ductor Man- ufacturing Equipment	Energy Storage System (BESS) Battery Energy Storage System	Vehicle Infrastruc- ture (EVI)	Automation Warehouse Automa-	Outdoor LED Light-	Heating, Ventilation and Air Condition- ing (HVAC)		Devices Data and	•
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV FN530 Reactors	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME) Semicon- ductor Man- ufacturing Equipment	Energy Storage System (BESS) Battery Energy Storage System	Vehicle Infrastructure (EVI) Electric Vehicle Infrastructure (EVI)	Automation Warehouse Automa-	Outdoor LED Light-	Heating, Ventilation and Air Condition- ing (HVAC) Heating, Ventilation and Air Condition- ing (HVAC)		Devices Data and	• Energy
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV FN530 Reactors RWK3044, RWK3062	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME) Semicon- ductor Man- ufacturing Equipment	Energy Storage System (BESS) Battery Energy Storage System	Electric Vehicle Infrastruc- ture (EVI)	Automation Warehouse Automa-	Outdoor LED Light-	Heating, Ventilation and Air Condition- ing (HVAC) Heating, Ventilation and Air Condition- ing (HVAC)		Devices Data and	Energy
Output Filters FN5060, FN5060HV FN5420 NEW, FN5040HV FN530 Reactors RWK3044, RWK3062 RWK305, RWK5420 NEW	Motion & Drives	Industrial Robotics	Semicon- ductor Man- ufacturing Equipment (SME) Semicon- ductor Man- ufacturing Equipment	Energy Storage System (BESS) Battery Energy Storage System	Electric Vehicle Infrastruc- ture (EVI)	Automation Warehouse Automa-	Outdoor LED Light-	Heating, Ventilation and Air Condition- ing (HVAC) Heating, Ventilation and Air Condition- ing (HVAC)		Devices Data and	Energy

Product Selection EMC/EMI

	Single-Phase Filters PCB Filters Feedthrough Chassis Mount Filters					3-Phase Filters						
PCB Filters	Feedthrough Components		Chassis Mount Filter	rs	DC Filters	3-Pi	ase Filters	3-Phase Filters with Neutral				
s10 A FN402 FN405 FN406 FN409 FN410	<250 A Capacitors FN7510 FN7511 FN7512 FN7513 FN7514 FN7560 FN7561 FN7562 FN7563	s100 A Standard Performance FN2010 FN2020 FN2410 FN2412 FN2450 FN332 FN350 B,VB,EB style K,VK,EK style HT style	s36 A High Performance FN2030 FN2060 FN2070 FN2071 FN2080 FN2415 FN2500 FN343 R,VR,ER style EP,VP style	s32 A Very High Performance FN2090 FN2091 FN2520 FN2560 FN2580 FN353Z FN353Z FN700Z	25A-2300 A FN2200 FN2211 FN2210 FN2211HV FN2210HV MRI	<300 A FN3025 FN3026 FN3026 FN3040 FN3100 FN3120H FN3258 FN3288 FN3288 FN3268 FN3268 FN351H	25 A-2300 A FN3270 FN3271 FN3310 FN3311 FN3310HV FN3310HV FN3359 AHV style APS/APH style	3 A-30 A FN354 FN355	8 A-600 A FN3256H FN3280H KES style KEP style KEV style			
Page 18	Filters FN7611 FN7612 FN7660 FN7661	Page 10	MV style VSK,ESK style VT,ET style W,V W style Page 10	Page 10	EV-Charging Application FN2230 FN2231 FN2220 FN2221 FN2240 FN2241 EVX	KEB style KEM style KEH style AHV style	Page 12	Page 14	Page 14			

IE	EC Inlet Filters/Pow	er Entry Modules PE	М
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 FN9234 FN9244 FN9244E FN9255 FN9274 EJ style EJT style EJF style EJH style	≤10 A FN9260 FN9262 FN9264 FN9266 FN261 GG,HG Style HP style C style unfiltered	do A FN1390 FN9280 FN9280E FN9299 FN280 FN370 FN372 FN378 FN379 FN380 P style inflitered P style unflitered M style	⊴10 A IF13
Page 15	Page 15	Page 15	Page 15

Common Mode Chokes											
Single-Phase 0.2 A-10 A ED Series EV/EH Series RC Series RN Series	3-Phase 6 A-63 A	3-Phase with Neutral 6 A-50 A RV Series									
6 A-85 A RT Series RV Series											
Page 17	Page 17	Page 17									

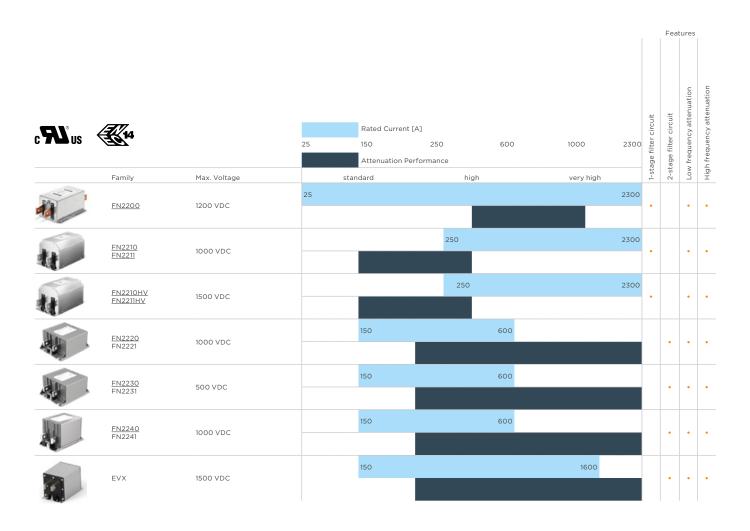
Product Selection PQ

	Harmonic Filte	ers											
	Mitigation Requirement												
Active FN3530 FN3531 FN3540 FN3541 FN3542 FN3542 FN3542	Passive <250 kW FN3440 FN3441 FN3442 FN3442 FN3450 FN3451 FN3452 FN3452 FN3453 FN3458 FN346LV FN3416LV	Passive ≥250 kW FN3470 FN3471 FN3472 FN3473 FN3480 FN3481 FN3482 FN3483											
Page 21	Page 22	Page 22											

3-Pha	se Reactors and L	.CL Filters	Output Filters					
Line	e 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 - Schaffner and Corcom

DC filters are specifically enhanced for applications with DC supply like EV charging, DC grids, energy storage and PV installations.

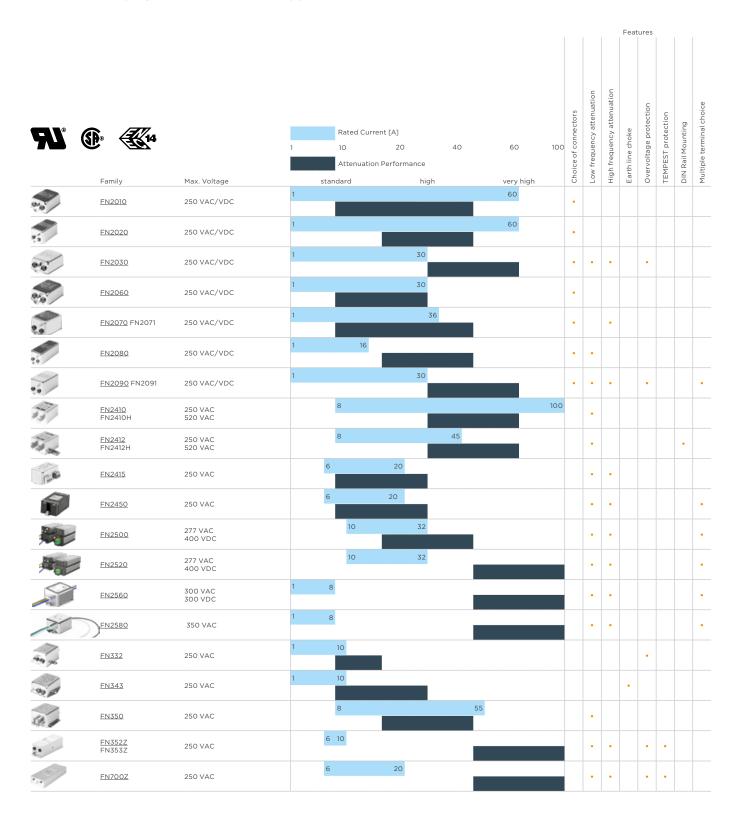


DC EMI Filter for Lighting applications

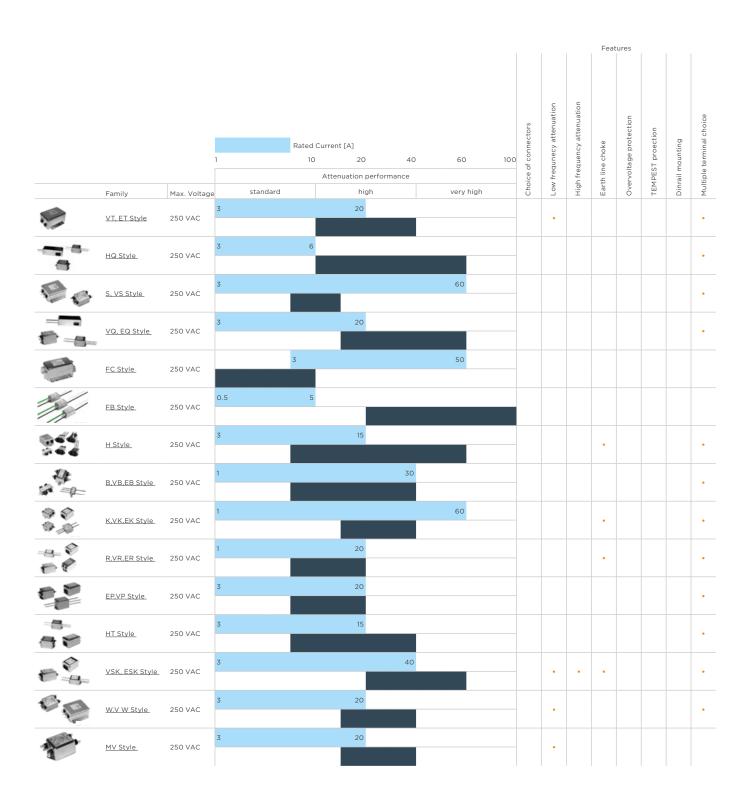


Schaffner - Single Phase Filters

Single-phase filters for chassis or DIN-rail mounting are key for EMC compliance of low to medium power industrial applications. A broad selection of electrical and mechanical features allows a specific choice and deployment for countless applications.

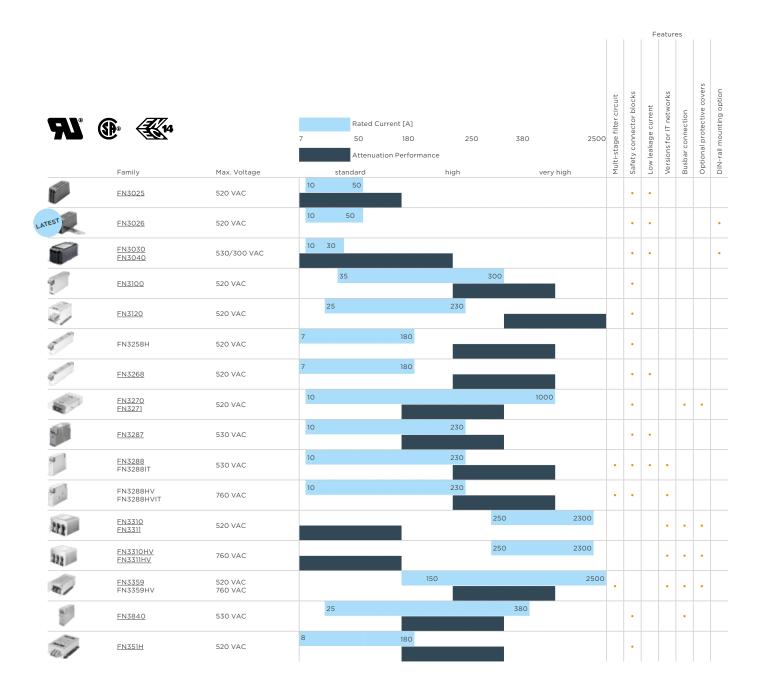


Corcom - Single Phase Filters

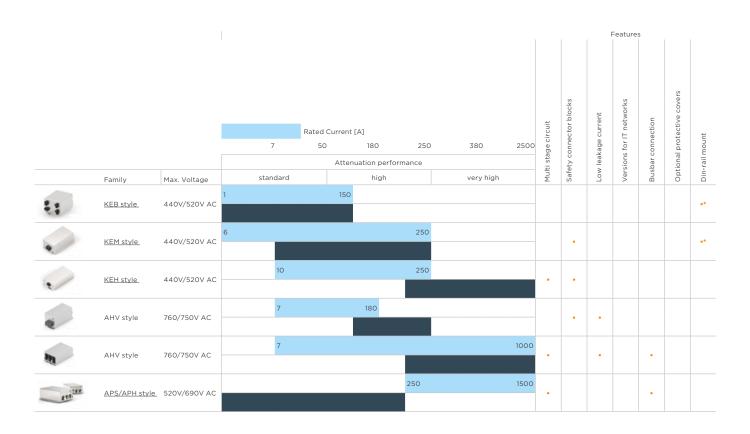


Schaffner - 3 phase Filters

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 well suited for HVAC applications such as heat pumps.

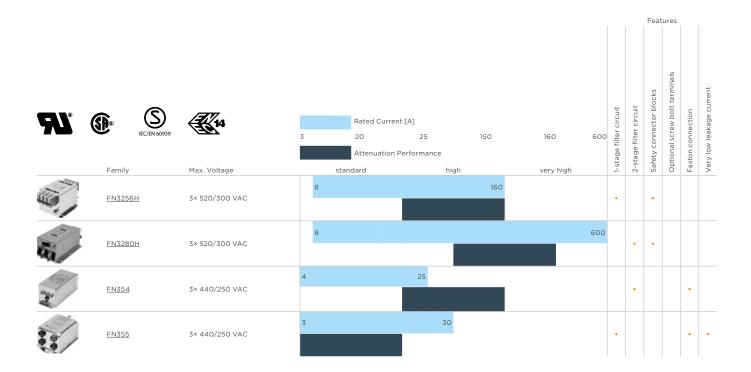


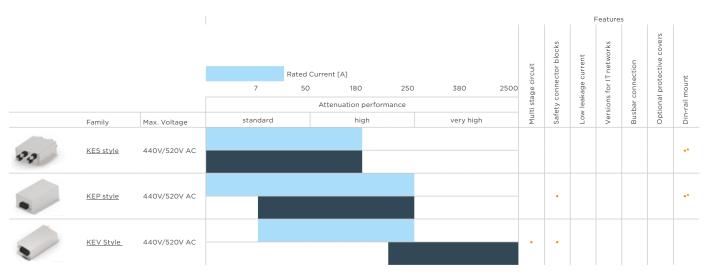
Corcom - 3 phase Filters



3-phase with Neutral Line filters - Schaffner and Corcom

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 accordance with the EMC directive.

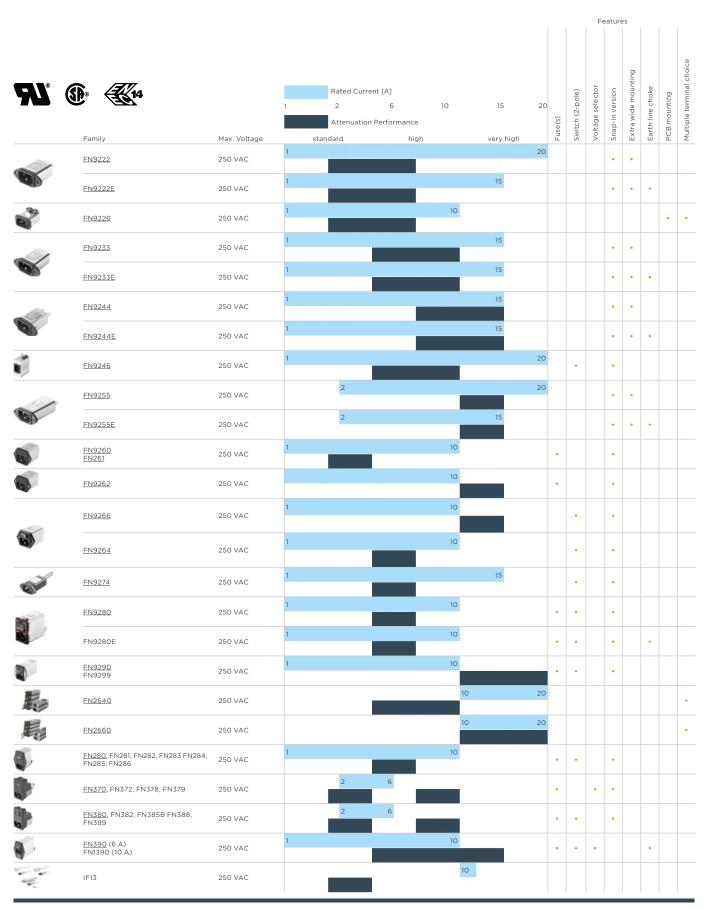




^{*} Din rail mount version KES style current rating 1 to 60 A KEP style current rating 6 to 50A

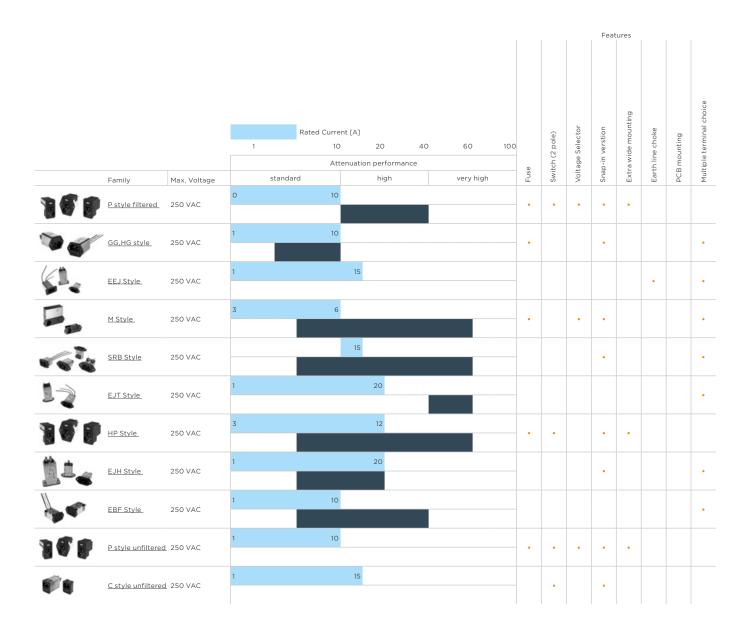
Schaffner - IEC Inlet filters and Power Entry Modules

A powerful and compact combination of IEC connector, EMC/EMI filter, fuses, switch and voltage selector in one package.



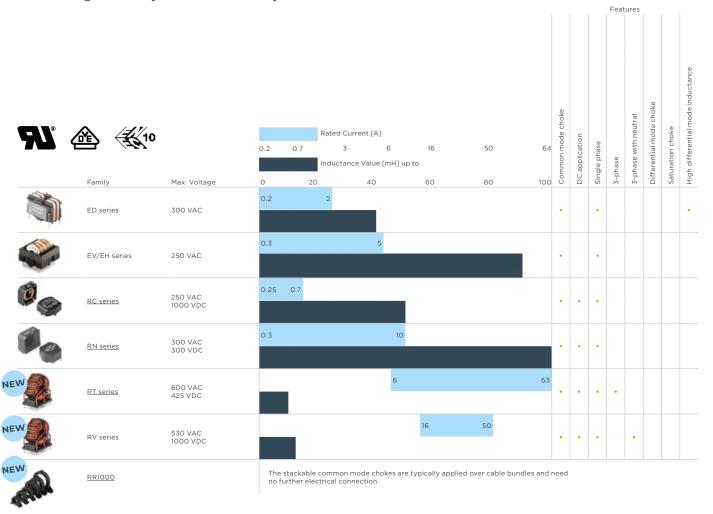
Corcom - IEC Inlet filters and Power Entry Modules

A powerful and compact combination of IEC connector, EMC/EMI filter, fuses, switch and voltage selector in one package.



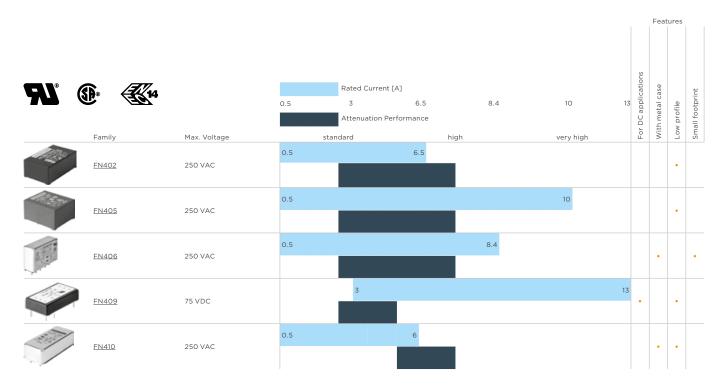
EMC/EMI Chokes

An extensive selection of discrete EMC/EMI chokes with various inductance and current ratings helps allow optimized circuitry for EMC compliance to be designed easily and economically.



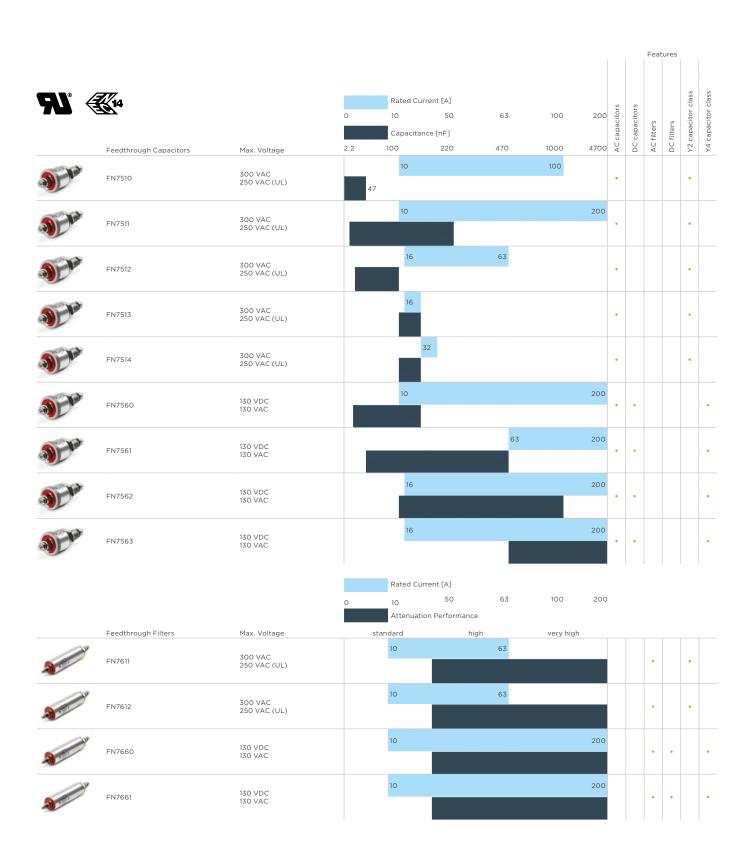
PCB Filters

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. reliable low cost solution for manufacturers who already planned for EMC compliance throughout the equipment design process.



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.

													Feat	ures*			
	EMA PE	Max. Voltage	• Standar • On Req 6 ft		9 ft	3 m	12 ft	5 m	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	UK1 line side plug BS1363, right angled, fused 5 A for IL13 and 13A for IL19	US2 line side plug NEMA5-15 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
		riax. Voltage		2	5 10	0	12.10	0									, .,
1	IL13	250 VAC	•	•	•	•	•	•	×	•		•	•	•	•	•	•
	IL13P	250 VAC	Rewire	eable Con	nectors v	with Lock	ing Syste	m		ı							
* Other features on	request																
													Feat	ures*			
													gled,				

* Other features on	request												Feat	ures*			
	Family	Max. Voltage	1 m	6 ft	2 m	3 m	5 m	6 m	other length	C14 line side plug IEC C14 male, straight	C20 line side plug IEC C20 male, straight	EU1 line side plug CEE7/VII right angled	UK1 line side plug BS1363, right angled, fused 5 A for IL13 and 13A for IL19	US2 line side plug NEMA5-15 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
The same of the sa	IL19	250 VAC	•	•	•			•	×			•	•			•	•

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 one of the highest flexibility for customization, redundancy, retrofitting and combination with passive harmonic mitigation components.

			Features																	
C€ ĽK	N	EW				litigation					For 50 Hz grids	For 60 Hz grids	For 6 pulse diode rectifiers without L_{dc}	For 6 pulse diode rectifiers with L _{dc}	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	Щ	щ	й	Щ	й	Ė	g.	۲	2,	5,
lane.	<u>FN3530</u> <u>FN3531</u>	200 VAC to 480 VAC	60 A								•	•	•	•	•	•	•	•	•	
and the second	FN3540 FN3541	200VAC to 415 VAC	60 A								•	•	•		•	•		•		•
High speed Bus	FN3532	200 VAC to 480 VAC		120 A							•	•	•		•	•		•		
High speed Bus	FN3542	200 VAC to 415 VAC		120 A								•	•		•	•		•		•
	<u>FN3545</u>	200 VAC to 480/415 VAC	60						120	00 A**	•	•	•	•	•	•	•	•	•	•

^{*} New: Nom. Voltage range starting from 200 VAC ** Up to 1200 A by combining multiple cabinets

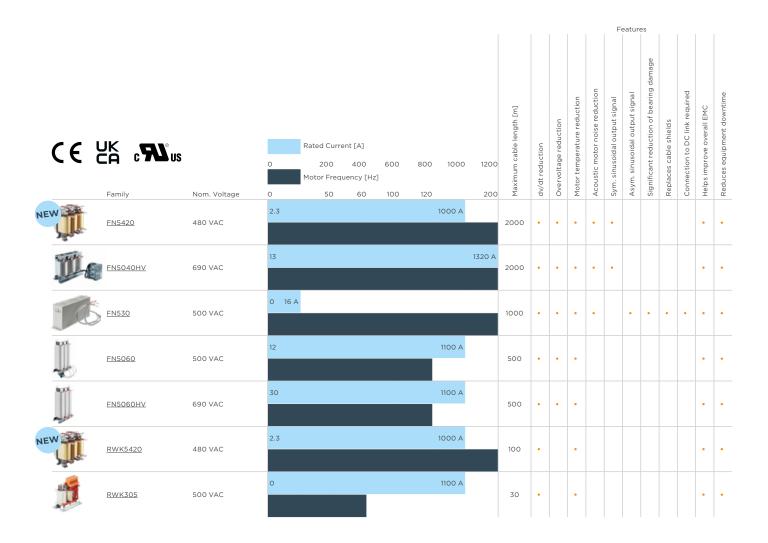
Passive Harmonic Filters

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, significantly reduces 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%.

											Feat				
C€	UK c Su us	c UL us usted Nom. Voltage	0	F 100 200	Rated Power [kV 300		00 600	For 50 Hz grids	For 60 Hz grids	For 6 pulse diode rectifiers without L _{dc}	For 6 pulse diode rectifiers with L _{dc}	For 6-pulse SCR rectifiers	Full performance THDi <5%	Economy THDi 5-15%	3-phase/3-wire
100	FN3440	380 VAC to 415 VAC	1.1	250	124/						•	•	•		•
ĺ	FN3441	380 VAC to 415 VAC	1.1	250				•			•		•		•
	<u>FN3442</u>	380 VAC to 415 VAC	1.2	240	НР				•	•	•	•	•		•
	<u>FN3443</u>	380 VAC to 415 VAC	1.2	240	НР						•		•		•
	FN3450	440 VAC to 500 VAC	1.1		315 kW					•	•	•	•		•
	FN3451	440 VAC to 500 VAC	1.1		315 kW						•		•		•
	<u>FN3452</u>	440 VAC to 480 VAC	1.5		300 HP					•	•	•	•		•
	<u>FN3453</u>	440 VAC to 480 VAC	1.5		300 HP				•		•		•		•
	<u>FN3470</u>	380 VAC to 415 VAC			250	500 k	W			•	•	•	•		•
55.	FN3471	380 VAC to 415 VAC			250	500 k	w	•		•	•	•		•	•
	FN3472	380 VAC to 415 VAC			280	480	НP		•		•	•	•		•
	FN3473	380 VAC to 415 VAC			280	480	HP		•	•	•	•		•	•
e.	FN3480	440 VAC to 480 VAC			315		560 kW	•		•	•	•	•		•
1	FN3481	440 VAC to 480 VAC			315		560 kW	•		•	•	•		•	•
e.	FN3482	440 VAC to 480 VAC				350	600 HP		•	•	•	•	•		•
	FN3483	440 VAC to 480 VAC				350	600 HP		•	•	•	•		•	•
ATEST AND A STATE OF THE STATE	FN3446	380 VAC to 500 VAC	4	200 kW						•	•	•		•	•
10	<u>FN3458</u>	380 VAC to 480 VAC	5		300 HP				•	•	•	•		•	•
•	<u>FN3416LV</u>	200 VAC to 240 VAC	2.5 9	90kW				•		•	•	•		•	•
•	<u>FN3418LV</u>	200 VAC to 240 VAC	2.5 1.	125 HP					•	•	•	•		•	•

Output Filters and 3-Phase Load Reactors

Schaffner offers a wide range of power quality motor protection devices. Enhancing the system reliability, availability and functionality to help 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, helps 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 and active front end/active infeed converters. 3-phase line reactors offer a first stage of mitigation with possiblity to combine with other filtering solutions like an active harmonic filter. LCL filters protect the grid from disturbances induced during energy regeneration from the active front end.

				Features																
CE EK						Mitigation C				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
	Family	Nom. Voltage	0	200	400	600	800	1000	<1000	ű	ű.	ŭ.	ű.	ŭ.	ت	드	I	œ	4	12
T	RWK3044	380-480 VAC	2					1000		•	•	•	•		•	•	•		•	
	RWK3062	500-690 VAC	1.5				870			•	•	•	•			•	•			•
B	FN6840	380-480 VAC	50							•	•			•		•	•	•		

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