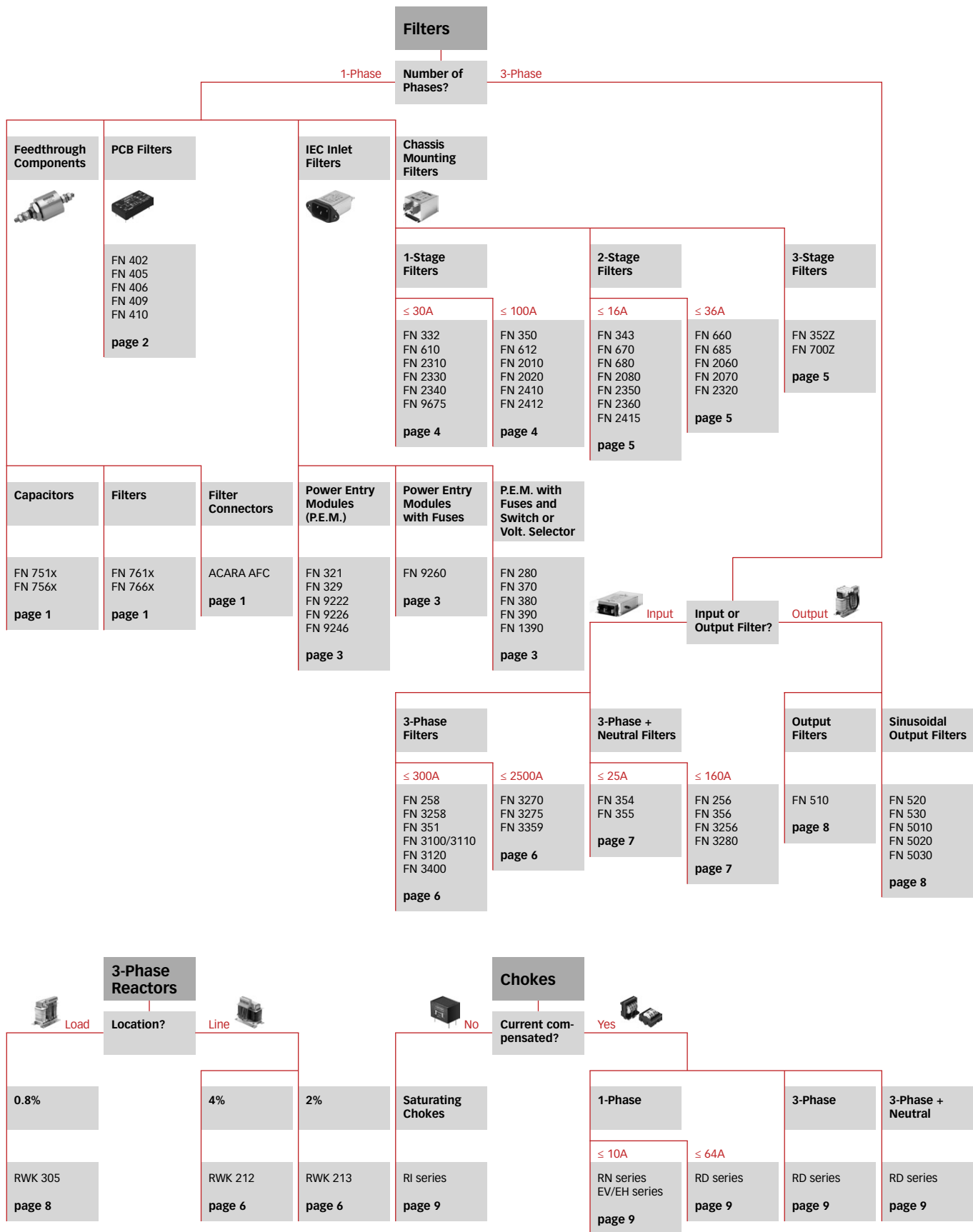







Product Selection Chart.



To define your proper solution competent assistance and more detailed product specifications can be obtained by your local partner within Schaffner's global network.

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 have planned for EMC compliance throughout the equipment design process already.

Filter Family	Max. Voltage	Attenuation performance		Features											Typical Applications									
		standard	high	1-stage filter circuit	2-stage filter circuit	For DC applications only	PCB mounting	With metal case	Low profile	Small footprint	Automotive	DC/DC converters	IT and telecom applications	Building automation	Power supplies	Medical devices	Office automation equipment	General applications	Consumer electronics					
 FN 402	250VAC	0.5	6.5	■			■		■		■				■	■	■	■	■					
 FN 405	250VAC	0.5	10	■			■		■		■				■		■	■	■					
 FN 406	250VAC	0.5	8.4	■			■	■		■		■	■	■	■	■	■		■					
 FN 409	75VDC		3		■	■	■		■		■	■	■		■									
 FN 410	250VAC	0.5	6	■			■	■			■	■	■	■		■			■					

Single-Phase Filters for Chassis Mounting.

Single-phase filters for chassis 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.

Filter Family	Max. Voltage	Attenuation performance			Features											Typical Applications					
		standard	high	very high	1-stage filter circuit	2-stage filter circuit	3-stage filter circuit	With earth line choke	With over voltage protection	Low frequency attenuation	High frequency attenuation	Choice of connection style	DIN rail mounting	Power supplies, SMPS	Medical equipment	Single-phase motor drives	Control unit in machine tools	Military applications	Office, test & measure. equip.	General purpose	
FN 332	250VAC	1 - 10			■				■		■			■						■	
FN 350	250VAC	8	55		■								■		■				■		
FN 610	250VAC	1	30		■						■			■						■	
FN 612	250VAC	1		100	■									■					■	■	
FN 2010	250VAC	1	60		■						■			■						■	
FN 2020	250VAC	1	60		■						■			■					■	■	
FN 2310	250VAC	3 - 10			■															■	■
FN 2330	250VAC	3	20		■															■	■
FN 2340	250VAC	2	20		■																■
FN 2410	250VAC 520VAC (H)	8		100	■					■				■		■					
FN 2412	250VAC 520VAC (H)	8	45		■					■			■	■	■	■					
FN 9675/76	250VAC	3	16		■									■		■					■



EN 133200
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Filter Family	Max. Voltage	Attenuation performance			Features											Typical Applications				
		standard	high	very high	1-stage filter circuit	2-stage filter circuit	3-stage filter circuit	With earth line choke	With over voltage 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	250VAC	1 - 10			■	■													■	■
FN 660	250VAC	1 - 20			■					■			■	■					■	■
FN 670	250VAC	1.8 - 10			■					■	■		■	■					■	
FN 680	250VAC	1 - 10			■				■		■		■	■					■	
FN 685	250VAC	10 - 36			■				■		■		■	■						
FN 2060	250VAC	1 - 30			■						■		■	■					■	■
FN 2070	250VAC	1 - 36			■					■	■		■	■	■				■	
FN 2080	250VAC	1 - 16			■				■		■		■	■						
FN 2320	250VAC	3 - 20			■														■	■
FN 2350	250VAC	2 - 10			■														■	■
FN 2360	250VAC	3 - 6			■								■	■					■	■
FN 2415	250VAC	6 - 16			■														■	■
FN 352Z	250VAC	6 - 30				■			■	■			■	■					■	■
FN 700Z	250VAC	6 - 20				■			■	■	■		■	■	■				■	■

Three-Phase Filters and Line Reactors. EMC filter solutions for industrial applications like motor drives and machine tools. Furthermore, these types of filters are also suitable for mainframe computer systems, large uninterruptible power supplies, medical equipment, wind turbine power stations and a vast array of other three-phase power electronics. Line reactors and harmonics filters, also operated on the line side of power drive systems, efficiently protect inverter electronics and DC link capacitors from inrush, peak and short-circuit currents. Additionally, low-frequency interference and harmonics are reduced significantly.

Filter Family	Max. Voltage	Attenuation performance		Current rating [A]		Features											Typ. Applications					
		standard	high	standard	high	very high	Multi-stage filter circuit	Safety connector blocks	Busbar connection	Optional protective covers	Offering EMC compliance	Less commutation notches	Form factor (I) improvement	Inrush current limitation	Harmonics reduction	4% impedance	2% impedance	Inverters, servo drives	Energy regeneration drives	Machinery, machine tools	Industrial automation	General purpose
FN 258	480VAC 690VAC (HV)	7	250				■	■			■							■		■	■	■
FN 351	440VAC 520VAC (H)	5	280					■			■							■			■	■
FN 3100/3110	520VAC (3100) 480VAC (3110)	35	300					■			■							■	■	■	■	
FN 3120	520VAC (H)	25	230					■			■							■	■	■	■	
FN 3258	480VAC 520VAC (H)	7	180					■			■							■			■	■
FN 3270	520VAC (H)	10	1000					■	■	■	■							■			■	■
FN 3275	520VAC (H)	10	1000					■	■	■	■										■	■
FN 3359	520VAC 690VAC (HV)	150	2500					■		■	■	■						■	■	■	■	
FN 3400	480VAC	8 - 24						■	■		■	■	■	■	■	■		■		■	■	■
RWK 212	500VAC	2	2300					■	■		■	■	■	■	■			■		■	■	■
RWK 213	500VAC	60	500					■	■		■	■	■	■		■		■		■	■	■

Output Filters and Load Reactors for Motor Drives. Output components for motor protection and the improvement of system reliability, availability and functionality. Deployed at the output side of frequency inverters, these filters ensure reliable operation by avoiding expensive downtimes of installations, manufacturing plants, machinery and a vast array of other industrial and domestic motor drive applications due to premature motor damage. An appropriate output solution will even allow the deployment of unshielded motor cables, the use of multiple motors in parallel on the same drive or the retrofit of modern drives in existing installations with old motors and unshielded cabling.

Filter Family	Max. Voltage	Typical motor power [kW]						Features										Typ. Applications					
		0	60	120	180	240	>300	dv/dt restriction	Overvoltage restriction	Motor temperature reduction	Red. acoustic motor noise	Sym. sinusoidal output signal	Asym. sinusoidal output signal	Eliminat. of bearing damage	Replaces cable shields	Connection to DC link required	Improves overall EMC	Reduces equipment downtime	Motor drives	Servo drives, torque motors	High-speed motor applications	Appl. with long unshield. cabling	Retrofit of motor drives
FN 510	520VAC	0.75 - 30	4 - 66					■	■	■						■	■	■	■				
FN 520	520VAC	1.5 - 7.5	4 - 16					■	■	■	■	■				■	■	■					
FN 530	520VAC	1.5 - 7.5	4 - 16					■	■	■	■	■	■	■	■	■	■	■			■	■	
FN 5010	440VAC 690VAC (HV)	0.75 - 300	2.5 - 610					■	■	■	■	■				■	■	■				■	
FN 5020	500VAC	11 - 55	25 - 120					■	■	■	■	■				■	■	■		■			
FN 5030*	500VAC	11 - 55	25 - 120							■		■	■	■	■	■	■	■		■	■	■	
RWK 305	500VAC	0.75 - 1000	2 - 2300					■	■							■	■	■	■				

* additional output filter module to be operated in conjunction with FN 5010 or FN 5020

