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SHORT FORM CATALOG

EMC/EMI & Power Quality
Filters and Components.

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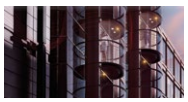
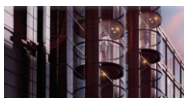
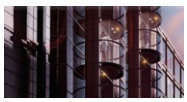
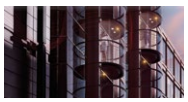
Industries

	Machinery & Robotics Motor Drive, Machinery, Factory Automation, Robotics	 **Building Technology** HVAC, Elevators, Lighting	**Energy Management** Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas	**Medical** Medical Equipment, Laboratory and Analyser Equipment	**Data & Communication** Datacenter, Networks
DC Filters					
FN2200	■		■		
FN2210, FN2211	■		■		
FN2210HV, FN2211HV	■		■		
FN2220, FN2230, FN2240 **NEW**			■		
Single-Phase Filters					
FN2010			■	■	
FN2020			■	■	
FN2030			■	■	
FN2060		■	■	■	
FN2070, FN2071	■	■	■	■	
FN2080	■	■	■	■	
FN2090, FN2091	■	■	■	■	
FN2410, FN2412	■	■	■		
FN2415	■				
FN2450	■	■	■	■	
FN2500, FN2520 **NEW**	■	■	■		
FN2560 **NEW**		■			
FN2580 **NEW**		■			
FN332			■	■	
FN343			■		
FN350	■				
FN352Z, FN353Z		■	■		■
FN700Z			■	■	■
LIS140C-1E **NEW**		■	■		
3-Phase Filters					
FN3025, FN3026	■		■	■	
FN3100	■		■		
FN3120H	■		■		
FN3258	■	■	■		
FN3268	■	■	■	■	
FN3270, FN3271	■	■	■		
FN3287, FN3288	■	■	■	■	
FN3310, FN3311	■	■	■		
FN3310HV, FN3311HV	■	■	■		
FN3359	■		■		
FN3840 **NEW**	■	■			
FN351	■	■			

	Machinery & Robotics Motor Drive, Machinery, Factory Automation, Robotics	 **Building Technology** HVAC, Elevators, Lighting	**Energy Management** Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas	**Medical** Medical Equipment, Laboratory and Analyser Equipment	**Data & Communication** Datacenter, Networks
3-Phase Filters with Neutral					
FN3256H	■	■	■	■	
FN3280H	■	■	■		
FN354			■	■	
FN355			■	■	
IEC Inlet Filters and Power Entry Modules					
FN2640, FN2660 **NEW**			■		■
FN9222			■	■	
FN9222E			■	■	
FN9226			■	■	
FN9233			■	■	
FN9233E			■	■	
FN9244			■	■	
FN9244E			■	■	
FN9246			■	■	
FN9255			■	■	
FN9255E				■	
FN9260			■	■	
FN9261			■	■	
FN9262			■	■	
FN9264			■	■	
FN9266			■	■	
FN9274 **NEW**				■	
FN9280			■	■	
FN9280E			■	■	
FN9290, FN9299			■	■	
FN280			■	■	
FN370, FN372, FN378, FN379			■	■	
FN380			■	■	
FN390, FN1390			■	■	
Power Cords with EMC-Filter IF13		■	■		■
EMC/EMI Chokes					
ED Common Mode Chokes **NEW**		■			
EV/EH Common Mode Chokes		■	■	■	■
RB Common Mode Chokes	■	■	■	■	■
RC Common Mode Chokes	■	■	■	■	■
RD Common Mode Chokes	■	■	■	■	■
RI Saturation Chokes	■	■			
RN Common Mode Chokes	■	■	■	■	■
RS Differential Mode Chokes		■	■	■	■
RT Common Mode Chokes **NEW**	■	■	■	■	■
RV Common Mode Chokes **NEW**		■	■		

Industries

	Machinery & Robotics Motor Drive, Machinery, Factory Automation, Robotics	 **Building Technology** HVAC, Elevators, Lighting	**Energy Management** Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas	**Medical** Medical Equipment, Laboratory and Analyser Equipment	**Data & Communication** Datacenter, Networks
PCB Filters					
FN402			■	■	■
FN405			■	■	■
FN406		■	■	■	■
FN409		■	■		■
FN410		■	■		■
Feedthrough Capacitors & Filters					
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					
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, Elevators, Lighting	**Energy Management** Renewable Energy, EV-Charging, Energy Storage, Smart Infrastructure, Power Supply, UPS, Oil & Gas	**Medical** Medical Equipment, Laboratory and Analyser Equipment	**Data & 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	■	■			
FN3470, FN3472, FN3480, FN3482	■	■			
FN3471, FN3473, FN3481, FN3483	■	■			
FN3416, FN3418	■	■			
FN3416LV, FN3418LV	■	■			
Output Filters					
FN5060, FN5060HV	■	■			
FN5420, FN5040HV, FN5020	■				
FN5030, FN530	■				
Reactors					
RWK3044, RWK3062	■	■	■		
RWK305, RWK5420	■	■	■		
LCL Filters					
FN6840	■		■		

Product Selection EMC/EMI

EMC/EMI Filters & Components									
Single-Phase Filters					DC-Filters	3-Phase Filters			
PCB Filters	Feedthrough Components	Chassis Mount Filters			DC-Filters	3-Phase Filters		3-Phase Filters with Neutral	
≤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 Perfor-mance** FN2010 FN2020 FN2410 FN2412 FN2450 FN332 FN350	**≤36 A** **High Perfor-mance** 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 FN3100 FN3120H FN3258 FN3287 FN3288 FN3268 FN3840 FN351	**25 A–2300 A** FN3270 FN3271 FN3310 FN3311 FN3310HV FN3311HV FN3359	**3 A–30 A** FN354 FN355	**8 A–600 A** FN3256H FN3280H FN356
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IEC Inlet Filters/Power 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 FN9222E FN9226 FN9233 FN9233E FN9244 FN9244E FN9246 FN9255 FN9255E FN9274	**≤10 A** FN9260 FN9261 FN9262 FN9264 FN9266	**≤10 A** FN1390 FN9280 FN9280E FN9290 FN9299 FN280 FN370 FN372 FN378 FN379 FN380 FN390	**≤10 A** IF13
Page 12	**Page 12**	**Page 12**	**Page 12**

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 RD Series RN Series RS Series **6 A–63 A** RT Series RV Series	**3-Phase** **6 A–64 A** RD Series RT Series	**3-Phase with Neutral** **6 A–64 A** RD Series RV Series
Page 18	**Page 18**	**Page 18**	**Page 18**	**Page 18**

Product Selection PQ

Harmonic Filters		
Mitigation Requirement		
Active FN3530 FN3531 FN3540 FN3541 FN3532 FN3542 FN3545	**Passive** **≤250kW** FN3440 FN3441 FN3442 FN3443 FN3450 FN3451 FN3452 FN3453 FN3416 FN3418 FN3416LV FN3418LV	**Passive** **≥250kW** FN3470 FN3471 FN3472 FN3473 FN3480 FN3481 FN3482 FN3483
Page 20	**Page 22**	**Page 22**

3-Phase Reactors and LCL Filters			Output Filters	
Line Side		Load Side	Voltage Shape	
Line Reactors **4%** **≤1000 A** RWK3044 RWK3062	**LCL Filters** **25 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** FN5420 FN5040HV FN530 FN5030
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DC Filters

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

Rated current [A]: 25 – 150 – 250 – 600 – 1000 – 2300

Attenuation Performance: standard – high – very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	Features: 1-stage filter circuit	Features: 2-stage filter circuit	Features: Low frequency attenuation	Features: High frequency attenuation
	FN2200	1200 VDC	25 – 2300	high – very high	■		■	■
	FN2210 FN2211	1000 VDC	250 – 2300	standard – high	■		■	■
	FN2210HV FN2211HV	1500 VDC	250 – 2300	standard – high	■		■	■
NEW	FN2220 FN2221	1000 VDC	150 – 600	very high		■	■	■
NEW	FN2230 FN2231	500 VDC	150 – 600	very high		■	■	■
NEW	FN2240 FN2241	1000 VDC	150 – 600	very high		■	■	■

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.

Rated current [A]: 1 10 20 40 60 100

Attenuation Performance: standard high very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	Choice of connectors	Low frequency attenuation	High frequency attenuation	Earth line choke	Overvoltage protection	TEMPEST protection	DIN Rail Mounting	Multiple terminal choice
	FN2010	250 VAC/VDC	1–60		■							
	FN2020	250 VAC/VDC	1–60		■							
	FN2030	250 VAC/VDC	1–30		■	■	■		■			
	FN2060	250 VAC/VDC	1–30		■							
	FN2070 FN2071	250 VAC/VDC	1–36		■		■					
	FN2080	250 VAC/VDC	1–16		■	■						
	FN2090 FN2091	250 VAC/VDC	1–30		■	■	■		■			■
	FN2410 FN2410H	250 VAC 520 VAC	8–100			■						
	FN2412 FN2412H	250 VAC 520 VAC	8–45			■					■	
	FN2415	250 VAC	6–20			■	■					
	FN2450	250 VAC	6–20			■	■					■
NEW	FN2500	277 VAC 400 VDC	10–32			■	■					■
NEW	FN2520	277 VAC 400 VDC	10–32			■	■					■
NEW	FN2560	300 VAC 300 VDC	1–8			■	■					■
NEW	FN2580	350 VAC	1–8			■	■					■
	FN332	250 VAC	1–10						■			
	FN343	250 VAC	1–10					■				
	FN350	250 VAC	8–55			■						
	FN352Z FN353Z	250 VAC	6–10			■	■		■	■		
	FN700Z	250 VAC	6–20			■	■		■	■		
NEW	LIS140C-1E	230 VAC	1–40			■					■	

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.

Rated current [A]: 1, 2, 6, 10, 15, 20

Attenuation Performance: standard, high, very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	Features: Fuse(s)	Switch (2-pole)	Voltage selector	Snap-in version	Extra wide mounting	Earth line choke	PCB mounting	Multiple terminal choice
	FN9222	250 VAC	1–20					■	■			
	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			■		■				
	FN9255	250 VAC	2–20					■	■			
	FN9255E	250 VAC	2–15					■	■	■		
	FN9260 FN9261	250 VAC	1–10		■			■				
	FN9262 FN9266	250 VAC	1–10		■	■		■				
	FN9264	250 VAC	1–10			■		■				
NEW	FN9274	250 VAC	1–15			■		■				
	FN9280	250 VAC	1–10		■	■		■				
	FN9280E	250 VAC	1–10		■	■		■		■		
	FN9290 FN9299	250 VAC	1–10		■	■		■				
NEW	FN2640	250 VAC	10–20									■
NEW	FN2660	250 VAC	10–20									■
	FN280, FN281, FN282, FN283 FN284, FN285, FN286	250 VAC	1–10		■	■		■				
	FN370, FN372, FN378, FN379	250 VAC	2–6	FN379	■		■	■				
	FN380, FN382, FN385B FN388, FN389	250 VAC	2–6	FN389	■	■		■				
	FN390 (6 A) FN1390 (10 A)	250 VAC	1–10	FN1393/94	■	■	■			■		
	IF13	250 VAC	10									

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.

■ **standard length**
× **on request**

	Family	Max. Voltage	6 ft	2 m	3 m	9 ft	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	US1 line side plug NEMA5–15 straight	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
										Features							
	IL13	250 VAC	■	■	×	■	■	×	×	■		■	■	■	■	■	■
	IL19	250 VAC		■							■	■	■		■		
	IL13P	250 VAC	Rewireable Connectors with Locking System														

3-Phase Filters

EMC/EMI filter solutions for industrial applications like motor drives and machine tools. Furthermore, these types of filters are also suitable for large uninterruptible power supplies, medical equipment, wind turbine power stations and a vast array of other 3-phase power electronics.

Rated current [A]: 7 – 50 – 180 – 250 – 380 – 2500

Attenuation Performance: standard – high – very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	Features: Multi-stage filter circuit	Safety connector blocks	Low leakage current	Versions for IT networks	Busbar connection	Optional protective covers	DIN-rail mounting option
	FN3025	520 VAC	10 – 50			■	■				
	FN3026	520 VAC	10 – 50			■	■				■
	FN3100	520 VAC	35 – 300			■					
	FN3120	520 VAC	25 – 230			■					
	FN3258 FN3258H	480 VAC 520 VAC	7 – 180			■					
	FN3268	520 VAC	7 – 180			■	■				
	FN3270 FN3271	520 VAC	10 – 1000			■			■	■	
	FN3287	530 VAC	10 – 230			■	■				
	FN3288 FN3288IT	530 VAC	10 – 230		■	■	■	■			
	FN3288HV FN3288HVIT	760 VAC	10 – 230		■	■		■			
	FN3310 FN3311	520 VAC	250 – 2300					■	■	■	
	FN3310HV FN3311HV	760 VAC	250 – 2300					■	■	■	
	FN3359 FN3359HV	520 VAC 760 VAC	150 – 2500		■			■	■	■	
NEW	FN3840	530 VAC	25 – 380			■			■		
	FN351 FN351H	440 VAC 520 VAC	8 – 280			■					

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 accordance with the EMC directive.

IEC/EN 60939

Rated current [A]: 3 – 20 – 25 – 150 – 160 – 600

Attenuation Performance: standard – high – very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	1-stage filter circuit	2-stage filter circuit	Safety connector blocks	Optional screw bolt terminals	Faston connection	Very low leakage current
	FN3256	3× 520/300 VAC	8 – 160	high – very high	■		■			
	FN3280	3× 520/300 VAC	8 – 600	high – very high		■	■			
	FN354	3× 440/250 VAC	4 – 25	high – very high		■			■	
	FN355	3× 440/250 VAC	3 – 20	standard – high	■				■	■
	FN356	3× 440/250 VAC	16 – 150	standard – high	■		■	■		

Feedthrough Components

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

Rated current [A]: 0 | 10 | 50 | 63 | 100 | 200

Capacitance [nF]: 2.2 | 100 | 220 | 470 | 1000 | 4700

	Feedthrough Capacitors	Max. Voltage	Rated current [A]	Capacitance [nF]	AC capacitors	DC capacitors	AC filters	DC filters	Y2 capacitor class	Y4 capacitor class
	FN7510	300 VAC 250 VAC (UL)	10 – 100	2.2 – 47	■				■	
	FN7511	300 VAC 250 VAC (UL)	10 – 200	4.7 – 220	■				■	
	FN7512	300 VAC 250 VAC (UL)	16 – 63	33 – 100	■				■	
	FN7513	300 VAC 250 VAC (UL)	16	100	■				■	
	FN7514	300 VAC 250 VAC (UL)	32	100	■				■	
	FN7560	130 VDC 130 VAC	10 – 200	10 – 100	■	■				■
	FN7561	130 VDC 130 VAC	63 – 200	47 – 470	■	■				■
	FN7562	130 VDC 130 VAC	16 – 200	100 – 1000	■	■				■
	FN7563	130 VDC 130 VAC	16 – 200	470 – 4700	■	■				■

Rated current [A]: 0 | 10 | 50 | 63 | 100 | 200

Attenuation Performance: standard | high | very high

	Feedthrough Filters	Max. Voltage	Rated current [A]	Attenuation Performance	AC capacitors	DC capacitors	AC filters	DC filters	Y2 capacitor class	Y4 capacitor class
	FN7611	300 VAC 250 VAC (UL)	10 – 63				■		■	
	FN7612	300 VAC 250 VAC (UL)	10 – 63				■		■	
	FN7660	130 VDC 130 VAC	10 – 200				■	■		■
	FN7661	130 VDC 130 VAC	10 – 200				■	■		■

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.

Rated current [A]: 0.5 – 3 – 6.5 – 8.4 – 10 – 13

Attenuation Performance: standard – high – very high

	Family	Max. Voltage	Rated current [A]	Attenuation Performance	Features: For DC applications	With metal case	Low profile	Small footprint
	FN402	250 VAC	0.5 – 6.5				■	
	FN405	250 VAC	0.5 – 10				■	
	FN406	250 VAC	0.5 – 8.4			■		■
	FN409	75 VDC	3 – 13		■		■	
	FN410	250 VAC	0.5 – 6			■	■	

EMC/EMI Chokes

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

Rated current [A]: 0.2, 0.7, 3, 6, 16, 50, 64

Inductance value [mH] up to: 0, 20, 40, 60, 80, 100

	Family	Max. Voltage	Rated current [A]	Inductance [mH]	Features: Common mode choke	DC application	Single phase	3-phase	3-phase with neutral	Differential mode choke	Saturation choke	High differential mode inductance
NEW	ED series	300 VAC	0.2 – 2	40	■		■					■
	EV/EH series	250 VAC	0.3 – 5	90	■		■					
	RB series	600 VAC 1000 VDC	16 – 50	3	■	■	■	■				
	RC series	250 VAC 1000 VDC	0.25 – 0.7	47	■	■	■					
	RD 5000 series	600 VAC 850 VDC	6 – 16	10	■	■	■	■				
	RD 6000 series	600 VAC 850 VDC	6 – 16	15	■	■	■	■				
	RD 7000 series	600 VAC 850 VDC	6 – 36	25	■	■	■	■				
	RD 8000 series	600 VAC 850 VDC	16 – 64	12	■	■	■	■				
	RI series	250 VAC	1.5 – 25				■				■	
	RN series	300 VAC 300 VDC	0.3 – 10	100	■	■	■					
	RS series	250 VAC	0.3 – 4	3.6			■			■		
NEW	RT series	600 VAC 425 VDC	6 – 63	10	■	■	■	■				
NEW	RV series	530 VAC 1000 VDC	16 – 50	16	■	■	■		■			

Pulse Transformers

They provide a proper galvanic separation between gate drive circuitry and high voltage path in IGBT, thyristor, triac, power MOSFET and DC/DC converter circuits.

Ignition current [A] up to: 0 0.6 1.2 1.8 2.4 3.0

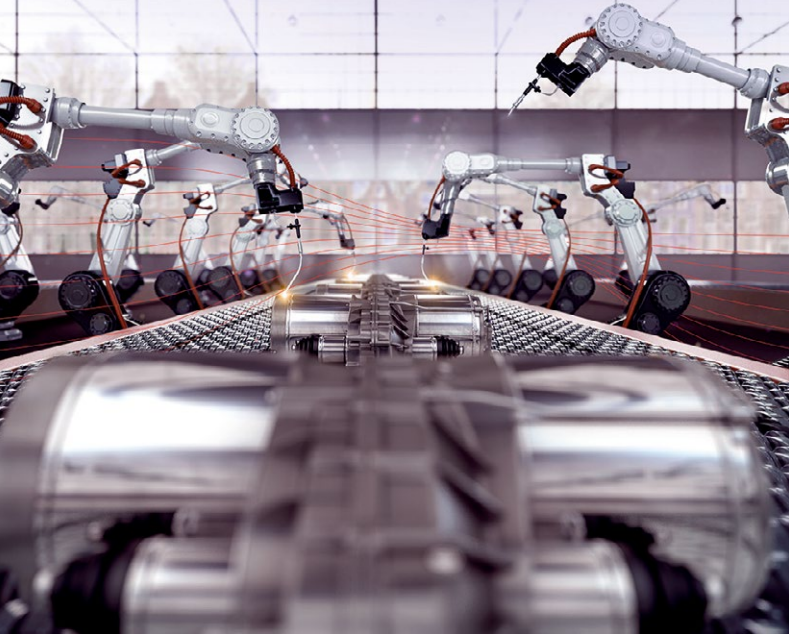
Voltage-time area [Vμs] up to: 0 1000 2000 3000 4000 5000

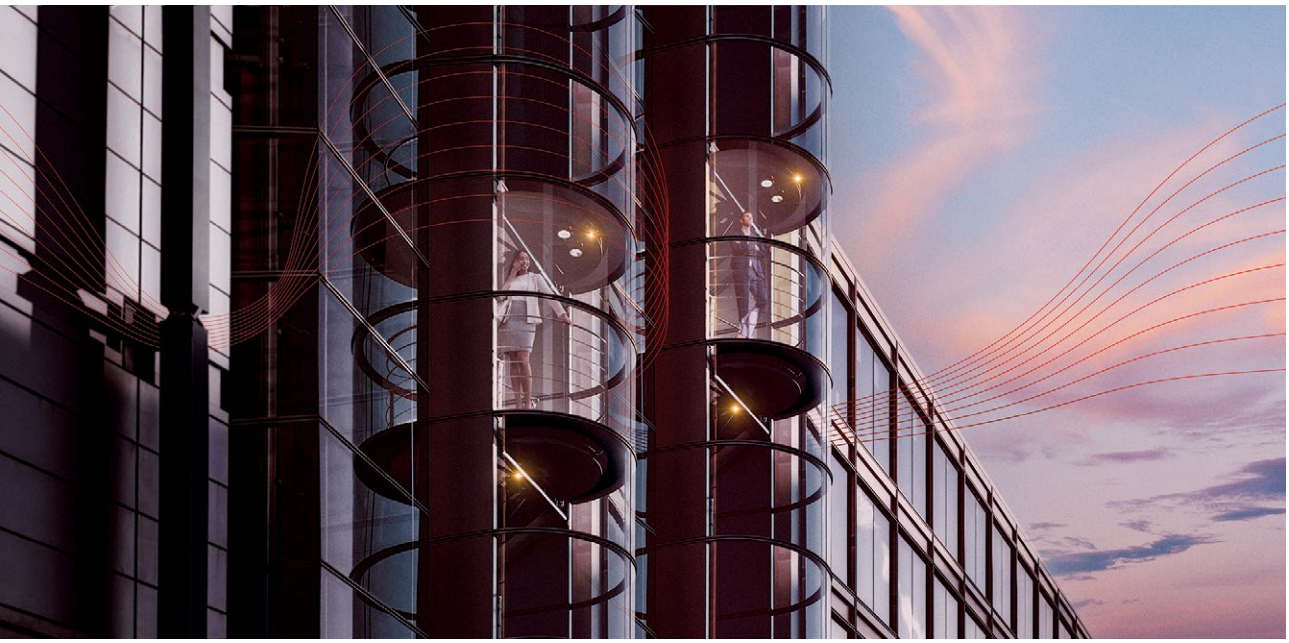
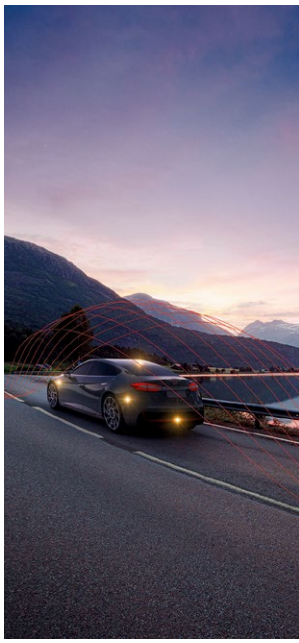
	Family	Nom. Voltage	Ignition current [A] up to:	Voltage-time area [Vμs] up to:	Features: 1 : 1	1 : 1 : 1	2 : 1	2 : 1 : 1	3 : 1	3 : 1 : 1	PCB	Faston	Galvanic isolation
	IT155 IT237	500 VAC	0.25	1100	■						■		■
	IT245, IT255, IT258	750 VAC	1	500	■						■		■
	IT239	1000 VAC	0.25	350	■						■		■
	IT370	1000 VAC	1	4000	■						■		■
	IT364	3000 VAC	3	5000	■							■	■
	IT213	380 VAC	0.25	450		■					■		■
	IT312 IT313	380 VAC	1	1200		■					■		■
	IT143, IT233, IT242, IT243, IT 253	500 VAC	0.25	800		■					■		■
	IT245 IT248	750 VAC	0.25	350			■				■		■
	IT249	500 VAC	0.25	350				■			■		■
	IT260	500 VAC	0.1	200					■		■		■
	IT314	380 VAC	1	500						■	■		■
	IT234, IT244, IT154	500 VAC	0.25	600						■	■		■

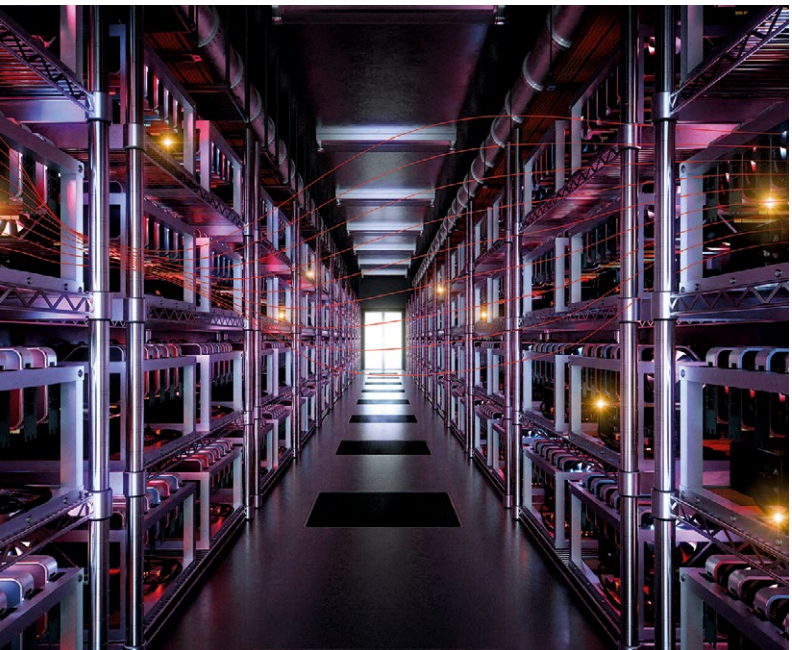
3-Phase Line Reactors and LCL Filters

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.

	Family	Nom. Voltage	Rated mitigation current [A] (0 – 200 – 400 – 600 – 800 – 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
	RWK3044	380–480 VAC	2 – 1000	■	■	■	■		■	■	■		■	
	RWK3062	500–690 VAC	1.5 – 870	■	■	■	■		■	■	■			■
	FN6840	380–480 VAC	25	■	■			■	■	■	■	■		





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