



Product Catalogue







01 EMI/EMC Products

Single Phase	IEC Inlet	08-09
	Single Stage	10-11
	Dual Stage	11-13
	Chokes	13
Two Phase		13
Three Phase	Single Stage	14
	Multi Stage	14-19
DC Filter		19

02 Feedthrough Components

Feedthrough Capacitor	22
Feedthrough Filter	22

03 Surge Protectors

Single Phase Surge Protector	25
Three Phase Surge Protector	25-26
Single Phase RC Filter	26
Three Phase RC Filter	27
DC Surge Filter	27
Network Signal Surge Protector	27

04 Power Quality Products

AC Single Line Reactor	30
AC Three Phase Line Reactor	30
Three Phase Sinewave Filter	30
Three Phase dv/dt Reactor	30
Three Phase Passive Harmonic Filter	32

01 EMI/EMC Products

Electromagnetic interference (EMI) is a critical Challenge in modern electronic design, where high frequency signals and compact layouts increase susceptibility to noise. EMI Filters and chokes are indispensable components engineered to mitigate the unwanted interference, ensuring the optimal performance and compliance of electronic systems. Our advanced solutions cater to stringent industry demands, providing high attenuation, robust reliability and seamless integration for a wide range of application.

Application

Industries						
	Office Automation Printers Fax machines Monitors	Drives & Controls AC & DC Motor Drives Servo Drives Rectifiers Inverters Converters	Machinery & Robotics Machinery, Robotics, Chemical & Mining industry Conveyers, Laser cutting, Wood working machines, Plotters	Consumer Goods Induction heaters, Coffee machines, Refrigeration and air conditioning, Amplifiers, Video, TV, Screens, Cooking equipment, Laundry machines, Tumbler machines	Power & Energy Management SMPS, UPS, PV systems, DC/ DC converters, Gen-sets, Wind turbines, Fuel cells, Gas turbines, Battery charging	Medical MRI, EEG, ECG, CAT Scanners, Measurement devices, Test equipment
SINGLE PHASE FILTERS						
MF300	✓		✓	✓	✓	
MF310	✓		✓	✓	✓	
MF320	✓		✓	✓	✓	
MF140						✓
MF150						✓
MF160						✓
MF310S	✓		✓	✓	✓	
MF320-2D	✓		✓	✓	✓	
MF420	✓	✓	✓	✓	✓	
MF420-VF	✓	✓	✓	✓	✓	
MF420-HP	✓	✓	✓	✓	✓	
MF120	✓					✓
SMF2131	✓	✓	✓	✓	✓	
SMF2132	✓	✓	✓	✓	✓	
MF210-P	✓		✓	✓		
MF530	✓		✓	✓		
MF410	✓	✓	✓	✓	✓	
MF430	✓	✓	✓	✓	✓	
MF110						✓
MF130						✓
SMF2232	✓	✓	✓	✓	✓	
SMF2233	✓	✓	✓	✓	✓	
DMC	✓	✓	✓	✓	✓	
CMC	✓	✓	✓	✓	✓	
CMC71	✓	✓	✓	✓	✓	
CMC72	✓	✓	✓	✓	✓	
CMC73	✓	✓	✓	✓	✓	
CMC74	✓	✓	✓	✓	✓	
MF422	✓	✓		✓	✓	



Model	Voltage Ratings	Current Ratings (A)								Standard	High	Very High	Single Stage Circuit	Dual Stage Circuit
		1	20	40	60	80	100	120	140	Performance			Stage	
MF300	250VAC/250VDC	1 16								✓			✓	
MF310	250VAC/250VDC		1-10							✓			✓	
MF310S	250VAC/250VDC		1-10							✓			✓	
MF320	250VAC/250VDC		1-10							✓			✓	
MF320-2D	250VAC/250VDC		1-10								✓			✓
MF140	250VAC/250VDC	1 16								✓			✓	
MF150	250VAC/250VDC		1-10							✓			✓	
MF160	250VAC/250VDC		1-10							✓			✓	
MF420	250VAC/250VDC									✓			✓	
SMF2131	250VAC/250VDC	1			60					✓			✓	
MF420VF	250VAC/250VDC	1		40							✓		✓	
MF410	250VAC/250VDC	1					100				✓			✓
SMF2132	250VAC/250VDC	1		30							✓		✓	
SMF2232	250VAC/250VDC	1		36							✓			✓
MF420HP	250VAC/250VDC	1		50								✓	✓	
SMF2233	250VAC/250VDC	1		30								✓		✓
MF430	250VAC/250VDC	1		60							✓			✓
MF120	250VAC/250VDC	1						125		✓				✓
MF110	250VAC/250VDC	1					100				✓			✓
MF130	250VAC/250VDC	1		60							✓			✓
MF210-P	250VAC/250VDC	3 16								✓			✓	
MF530	250VAC/250VDC		1-10							✓			✓	
CMC71	300VAC		0.3-10							✓				
CMC72	600VAC/1000VDC		16	50						✓				
CMC73	600VAC/850VDC	6			64					✓				
CMC74	250VAC		0.25-0.7							✓				



Sing e Phase EMI Filters

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Application

Industries						
	Office Automation Printers Fax machines Monitors	Drives & Controls AC & DC Motor Drives Servo Drives Rectifiers Inverters Converters	Machinery & Robotics Machinery, Robotics, Chemical & Mining industry Conveyers, Laser cutting, Wood working machines, Plotters	Consumer Goods Induction heaters, Coffee machines, Refrigeration and air conditioning, Amplifiers, Video, TV, Screens, Cooking equipment, Laundry machines, Tumbler machines	Power & Energy Management SMPS, UPS, PV systems, DC/DC converters, Gen-sets, Wind turbines, Fuel cells, Gas turbines, Battery charging	Medical MRI, EEG, ECG, CAT Scanners, Measurement devices, Test equipment
THREE PHASE FILTERS						
MF423-3W			✓		✓	
MF423-4W			✓		✓	
MF423-3-2D		✓	✓		✓	
MF423-3-2D-BS		✓	✓	✓	✓	
MF423-3-2D-HV		✓	✓		✓	
MF423-3-2D-BS-HV		✓	✓		✓	
TMF3221/TMF3222		✓	✓		✓	
MF423-4-2D		✓	✓		✓	
MF423-4-2D-BS		✓	✓	✓	✓	
MF423-3-3D		✓	✓		✓	
MF423-3-3D-BS		✓	✓	✓	✓	
MF423-3-3D-BB		✓	✓		✓	
MF423-3-3D-HV		✓	✓		✓	
MF423-3-3D-BS-HV		✓	✓		✓	
TMF3132/TMF3332		✓	✓		✓	
TMF3333		✓	✓		✓	
MF423-4-3D		✓	✓		✓	
MF423-4-3D-BS		✓	✓	✓	✓	
MF423-4-3DD		✓	✓		✓	
MF423-4-3DD-BS		✓	✓	✓	✓	
TMF4222		✓	✓	✓	✓	
TMF4233		✓	✓		✓	
DC FILTERS						
MF610			✓		✓	
MF620			✓		✓	





Three Phase Three Wire EMI Filters

Model	Voltage Ratings	Current Ratings (A)							Standard	High	Very High	Single Stage Circuit	Dual Stage Circuit	Three Stage Circuit
		1	250	500	1000	1500	2000	2500	Performance			Stage		
MF423-3W	440VAC/520VAC	1	150						✓			✓		
MF423-3-2D	440VAC/520VAC	3	250							✓			✓	
TMF3132/3332	520VAC	10			1000					✓		✓		✓
MF423-3-2D-HV	760VAC/750VAC	6			1000						✓		✓	
MF423-3-3D	440VAC/520VAC	6	250								✓			✓
TMF3333	520VAC	150					2500				✓			✓
MF423-3-3D-BB	440VAC/520VAC			300	1000						✓			✓
MF423-3-3D-HV	760VAC/750VAC	6			1000						✓			✓
TMF3333HV	760VAC	150					2500				✓			✓
MF423-3-2D-BS	440VAC/520VAC		7-150							✓			✓	
TMF3221/TMF3222	520VAC	10	230							✓			✓	
MF423-3-2D-BS-HV	760VAC/750VAC	7	180							✓			✓	
TMF3221/TMF3222HV	760VAC	10	230							✓			✓	
MF423-3-3D-BS	440VAC/520VAC		7-150								✓			✓
MF423-3-3D-BS-HV	760VAC/750VAC	7	180								✓			✓

Three Phase with Neutral EMI Filters

Model	Voltage Ratings	Current Ratings (A)							Standard	High	Very High	Single Stage Circuit	Dual Stage Circuit	Three Stage Circuit
		1	250	500	1000	1500	2000	2500	Performance			Stage		
MF423-4W	440VAC/520VAC	1	150						✓			✓		
MF423-4-2D	440VAC/520VAC	6	250							✓			✓	
MF423-4-3DD	440VAC/520VAC	6	100								✓			✓
MF423-4-3D	440VAC/520VAC	6	250								✓			✓
TMF4222	520VAC	8	250							✓			✓	
TMF4233	520VAC	6			600						✓		✓	
MF423-4-2D-BS	440VAC/520VAC	7	250							✓			✓	
MF423-4-3D-BS	440VAC/520VAC	7	250								✓			✓
MF423-4-3DD-BS	440VAC	7	250								✓			✓

DC Filters

Model	Voltage Ratings	Current Ratings (A)						Standard	High	Very High	Single Stage Circuit	Dual Stage Circuit	Three Stage Circuit
		25	150	250	600	1000	2500	Performance			Stage		
MF610	1200VDC	25					2500			✓	✓		
MF620	500VDC/1000VDC/1500VDC		150				1600			✓		✓	





EMI Filters / Single Phase Filter / IEC Inlet



Standard	High	Very High



MF300

Operating Voltage 250VAC	Current Rating 1A to 16A	Operating Frequency 50/60Hz	Mounting Panel Mount
------------------------------------	------------------------------------	---------------------------------------	--------------------------------

Performance Indicator



MF310

Standard	High	Very High



MF320

Operating Voltage 250VAC	Current Rating 1A to 10A	Operating Frequency 50/60Hz	Mounting Panel Mount
------------------------------------	------------------------------------	---------------------------------------	--------------------------------

Performance Indicator

Standard	High	Very High



Operating Voltage 250VAC	Current Rating 1A to 10A	Operating Frequency 50/60Hz	Mounting Panel Mount
------------------------------------	------------------------------------	---------------------------------------	--------------------------------

Note: Refer Datasheet for partwise approval status



Performance Indicator



MF140 (Medical)

Operating Voltage 250VAC	Current Rating 1A to 16A	Operating Frequency 50/60Hz	Mounting Panel Mount
------------------------------------	------------------------------------	---------------------------------------	--------------------------------

Performance Indicator

Standard	High	Very High



EMI Filters / Single Phase Filter / IEC Inlet



MF150 (Medical)



Operating Voltage
250VAC

Current Rating
1A to 10A

Operating Frequency
50/60Hz

Mounting
Panel Mount

Performance Indicator

Standard	High	Very High



MF160 (Medical)



Operating Voltage
250VAC

Current Rating
1A to 10A

Operating Frequency
50/60Hz

Mounting
Panel Mount

Performance Indicator

Standard	High	Very High



MF310S



Operating Voltage
250VAC

Current Rating
1A to 10A

Operating Frequency
50/60Hz

Mounting
Panel Mount

Performance Indicator

Standard	High	Very High



MF320-2D



Operating Voltage
250VAC

Current Rating
1A to 10A

Operating Frequency
50/60Hz

Mounting
Panel Mount

Performance Indicator

Standard	High	Very High

Note: Refer Datasheet



for partwise approval status

Note: Refer Datasheet for partwise approval status



EMI Filters / Single Phase Filter / Single Stage



Standard	High	Very High



MF420-VF



Operating Voltage 250VAC	Current Rating 1A to 40A	Operating Frequency 50/60Hz	Mounting Chassis Mount
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Performance Indicator

Standard	High	Very High



MF420-HP



Operating Voltage 250VAC	Current Rating 1A to 50A	Operating Frequency 50/60Hz	Mounting Chassis Mount
-----------------------------	-----------------------------	--------------------------------	---------------------------

Performance Indicator

Standard	High	Very High



MF120 (Medical)



Operating Voltage 250VAC	Current Rating 1A to 125A	Operating Frequency 50/60Hz	Mounting Chassis Mount
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Performance Indicator

Standard	High	Very High



SMF2131



Operating Voltage 250VAC	Current Rating 1A to 60A	Operating Frequency 50/60Hz	Mounting Chassis Mount
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Performance Indicator

Standard	High	Very High



MF420

Operating Voltage	Current Rating	Operating Frequency	Mounting
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250VAC

1A to 125A

50/60Hz

Chassis Mount

Performance Indicator

Note: Refer Datasheet for partwise approval status



EMI Filters / Single Phase Filter / Single Stage

SMF2132



Operating Voltage 250VAC	Current Rating 1A to 30A	Operating Frequency 50/60Hz	Mounting Chassis Mount
------------------------------------	------------------------------------	---------------------------------------	----------------------------------

Performance Indicator		
Standard	High	Very High



MF210-P



Operating Voltage 250VAC	Current Rating 3A to 16A	Operating Frequency 50/60Hz	Mounting Stud Mount
------------------------------------	------------------------------------	---------------------------------------	-------------------------------

Performance Indicator		
Standard	High	Very High



PCB Filters – MF530



Operating Voltage 250VAC	Current Rating 1A to 10A	Operating Frequency 50/60Hz	Mounting PCB Mount
------------------------------------	------------------------------------	---------------------------------------	------------------------------

Performance Indicator		
Standard	High	Very High



EMI

Filters / Single Phase Filter / Dual Stage

MF410



Operating Voltage 250VAC	Current Rating 1A to 100A	Operating Frequency 50/60Hz	Mounting Chassis Mount
------------------------------------	-------------------------------------	---------------------------------------	----------------------------------

Performance Indicator		
Standard	High	Very High



EMI Filters / Single Phase Filter / Dual Stage



MF430

Operating Voltage 250VAC	Current Rating 1A to 60A	Operating Frequency 50/60Hz	Mounting Chassis Mount
Performance Indicator			
Standard	High	Very High	





MF110 (Medical)

Operating Voltage 250VAC	Current Rating 1A to 100A	Operating Frequency 50/60Hz	Mounting Chassis Mount
Performance Indicator			
Standard	High	Very High	





MF130 (Medical)

Operating Voltage 250VAC	Current Rating 1A to 60A	Operating Frequency 50/60Hz	Mounting Chassis Mount
Performance Indicator			
Standard	High	Very High	





SMF2232

Operating Voltage 250VAC	Current Rating 1A to 36A	Operating Frequency 50/60Hz	Mounting Chassis Mount
Performance Indicator			
Standard	High	Very High	



EMI Filter /

Filters / Single Phase
Dual Stage



SMF2233



Operating Voltage 250VAC	Current Rating 1A to 30A	Operating Frequency 50/60Hz	Mounting Chassis Mount
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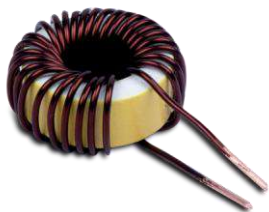
Performance Indicator

Standard	High	Very High



EMI Filters / Chokes

Differential Mode Choke Coil (DMC)



Operating Voltage 250VAC	Current Rating 0.5A to 25A	Operating Frequency 50/60Hz	Mounting PCB Mount
------------------------------------	--------------------------------------	---------------------------------------	------------------------------

Performance Indicator

Standard	High	Very High



Common Mode Choke Coil (CMC)



Operating Voltage 250VAC	Current Rating 0.5A to 32A	Operating Frequency 50/60Hz	Mounting PCB Mount
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Performance Indicator

Standard	High	Very High



CMC71



Operating Voltage 300VAC	Current Rating 0.3A to 10A	Operating Frequency DC to 400 Hz	Mounting Through-hole pin
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Performance Indicator

Standard	High	Very High



Note: Refer Datasheet for partwise approval status



EMI Filters / Chokes



CMC72

Operating Voltage
600VAC/1000VDC

Current Rating
16A to 50A

Operating Frequency
DC to 400Hz

Mounting
Through-hole pin

Performance Indicator

Standard	High	Very High



CMC73

Operating Voltage
600VAC/850VDC

Current Rating
6A to 64A

Operating Frequency
DC to 400Hz

Mounting
Through-hole pin

Performance Indicator

Standard	High	Very High



CMC74

Operating Voltage
250VAC

Current Rating
0.25A to 0.7A

Operating Frequency
DC to 400Hz

Mounting
Through-hole pin

Performance Indicator

Standard	High	Very High



EMI Filters / Two Phase Filter

MF 422

Standard	High	Very High
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Note: Refer Datasheet for partwise approval status





Operating Voltage	Current Rating	Operating Frequency	Mounting
		440VAC 50/60Hz	1A to 100A Chassis Mount

Performance Indicator



EMI Filters / Three Phase Filter / Single Stage



MF423-3W

Operating Voltage
440/520VAC

Current Rating
1A to 150A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-4W

Operating Voltage
440/520VAC

Current Rating
1A to 150A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



EMI Filters / Three Phase Filter / Multi Stage



MF423-3-2D

Operating Voltage
440/520VAC

Current Rating
3A to 250A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-2D-BS

Operating Voltage
440/520VAC

Current Rating
7A to 150A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-2D-HV

Note: Refer Datasheet for partwise approval status



EMI Filters / Three Phase Filter / Multi Stage



Operating Voltage
760/750VAC

Current Rating
6A to 1000A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-2D-BS-HV



Operating Voltage
760/750VAC

Current Rating
7A to 180A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



TMF3221 / TMF3222



Operating Voltage
520/760/750VAC

Current Rating
10A to 230A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-4-2D



Operating Voltage
440/520VAC

Current Rating
6A to 250A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-4-2D-BS



Operating Voltage
440/520VAC

Current Rating
7A to 150A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



Note: Refer Datasheet for partwise approval status



EMI Filters / Three Phase Filter / Multi Stage

MF423-3-3D



Operating Voltage
440/520VAC

Current Rating
6A to 250A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-3D-BS



Operating Voltage
440/520VAC

Current Rating
7A to 150A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-3D-BB



Operating Voltage
440/520VAC

Current Rating
300A to 1000A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



MF423-3-3D-HV



Operating Voltage
760/750VAC

Current Rating
6A to 1000A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High



Note: Refer Datasheet for partwise approval status



MF423-3-3D-BS-HV

Operating Voltage

750/760VAC

Current Rating

7A to 180A

Operating Frequency

50/60Hz

Mounting

Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



Operating Voltage

520/750VAC

Current Rating

10A to 1000A

Performance Indicator

Standard	High	Very High



TMF3132 / TMF3332

Operating Frequency

50/60Hz

Mounting

Chassis Mount



Note: Refer Datasheet for partwise approval status

EMI Filters / Three Phase Filter / Multi Stage

TMF3333



Operating Voltage 520/760/750VAC
Current Rating 150A to 2500A

Performance Indicator

Standard	High	Very High



Operating Frequency 50/60Hz
Mounting Chassis Mount

MF423-4-3D



Operating Voltage 440/520VAC
Current Rating 6A to 250A
Operating Frequency 50/60Hz
Mounting Chassis Mount

Performance Indicator

Standard	High	Very High

MF423-4-3D-BS



Operating Voltage 440/520VAC
Current Rating 7A to 150A
Operating Frequency 50/60Hz
Mounting Book Shelf type - Chassis Mount

Performance Indicator

Standard	High	Very High





MF423-4-3DD

Operating Voltage
440/520VAC

Current Rating
6A to 100A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High





MF423-4-3DD-BS

Operating Voltage
440VAC

Current Rating
7A to 150A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High





TMF4222

Operating Voltage
520VAC

Current Rating
8A to 250A

Operating Frequency
50/60Hz

Mounting
Book Shelf type -
Chassis Mount

Performance Indicator

Standard	High	Very High



TMF4233

Operating Voltage
520VAC

Current Rating
8A to 600A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High





Note: Refer Datasheet for partwise approval status

EMI Filters / Three Phase Filter / Multi Stage

EMI Filters / DC Filter



MF610

Operating Voltage
Max 1200VDC

Current Rating
25A to 2500A

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High
████████████████████		



MF620

Operating Voltage
Max 1500VDC

Current Rating
150A to 1600A

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High
████████████████████		



Note: Refer Datasheet for partwise approval status



02 Feedthrough Components

Feedthrough Components Provide high attenuation across broad frequency range, extending up to 1 GHz. they are available in wide selection of capacitance values and are offered with diverse Mounting configurations and Termination options to suit various application Requirement .

Application

Industries						
	Office Automation	Drives & Controls	Machinery & Robotics	Consumer Goods	Power & Energy Management	Medical
	Printers Fax machines Monitors	AC & DC Motor Drives Servo Drives Rectifiers Inverters Converters	Machinery, Robotics, Chemical & Mining industry Conveyers, Laser cutting, Wood working machines, Plotters	Induction heaters, Coffee machines, Refrigeration and air conditioning, Amplifiers, Video, TV, Screens, Cooking equipment, Laundry machines, Tumbler machines	SMPS, UPS, PV systems, DC/ DC converters, Gen-sets, Wind turbines, Fuel cells, Gas turbines, Battery charging	MRI, EEG, ECG, CAT Scanners, Measurement devices, Test equipment
FEEDTHROUGH COMPONENTS						
FTCAC					✓	✓
FTFAC					✓	✓
FTCDC					✓	✓

Model	Voltage Ratings	Current Ratings (A)				AC Capacitors	AC Filter	DC Capacitor	DC Filter	Y2 Capacitor Class
		1	50	100	200					
FTCAC	250VAC	6			200	✓				✓
FTFAC	250VAC	6			200		✓			✓
FTCDC	130VDC / 130VAC	6			200			✓		✓



Feedthrough Components / Feedthrough Capacitor



FTCAC

Operating Voltage
250VAC

Current Rating
6A to 200A

Mounting
Bulk Head Mount



FTCDC

Operating Voltage
130VDC / 130VAC

Current Rating
6A to 200A

Mounting
Bulk Head Mount



Feedthrough Components / Feedthrough Filter



FTFAC

Operating Voltage
250VAC

Current Rating
6A to 200A

Mounting
Bulk Head Mount



Note: Refer Datasheet for partwise approval status



03 Surge Protectors

Surge protectors are devices designed to protect electronic equipment from voltage spikes or power surges. These surges can occur due to various reasons, such as lightning strikes, power outages, or issues within the power grid. Surge protectors work by diverting excess voltage to the ground, preventing it from reaching and damaging connected devices.

Application

Industries						
	Office Automation Printers Fax machines Monitors	Drives & Controls AC & DC Motor Drives Servo Drives Rectifiers Inverters Converters	Machinery & Robotics Machinery, Robotics, Chemical & Mining industry Conveyers, Laser cutting, Wood working machines, Plotters	Consumer Goods Induction heaters, Coffee machines, Refrigeration and air conditioning, Amplifiers, Video, TV, Screens, Cooking equipment, Laundry machines, Tumbler machines	Power & Energy Management SMPS, UPS, PV systems, DC/DC converters, Gen-sets, Wind turbines, Fuel cells, Gas turbines, Battery charging	Medical MRI, EEG, ECG, CAT Scanners, Measurement devices, Test equipment
SINGLE PHASE SURGE PROTECTORS						
SSP2086	✓	✓	✓	✓	✓	✓
SSP2206	✓	✓	✓	✓	✓	✓
SSP2406	✓	✓	✓	✓	✓	✓
TSP3086	✓	✓	✓	✓	✓	✓
TSP3206	✓	✓	✓	✓	✓	✓
TSP3406	✓	✓	✓	✓	✓	✓
TSP4206	✓	✓	✓	✓	✓	✓
TSP4406	✓	✓	✓	✓	✓	✓
SRC2083	✓	✓	✓	✓	✓	✓
TRC3083	✓	✓	✓	✓	✓	✓
TRC4083	✓	✓	✓	✓	✓	✓
DSP406	✓	✓	✓	✓	✓	✓
NSPRJ45	✓	✓	✓	✓	✓	✓

Model	Voltage Ratings	Surge Ratings (KA)				Type 1	Type 2	Type 3
		1	20	40	60			
SSP2086	250VAC	1 8						✓
SSP2206	250VAC	1 20					✓	
SSP2406	250VAC	1 40					✓	
TSP3086	440VAC	1 20						✓
TSP3206	440VAC	1 40					✓	
TSP3406	440VAC	1 20					✓	
TSP4206	440VAC	1 40					✓	
TSP4406	440VAC	1 8					✓	



SRC2083	250VAC	1 8			✓
TRC3083	440VAC	1 8			✓
TRC4083	440VAC	1 8			✓
DSP406	600VDC	1 40		✓	
NSPRJ45	8VDC	1 5		✓	

Surge Protectors / Single Phase Surge Protector



SSP2086

SPD Type	Operating Voltage	Surge Current Rating	Mounting
Type 3/Class D	250VAC	8KA	Din Rail Mount



SSP2206

SPD Type	Operating Voltage	Surge Current Rating	Mounting
Type 2/Class C	250VAC	20KA	Din Rail Mount



SSP2406

SPD Type	Operating Voltage	Surge Current Rating	Mounting
Type 2/Class C	250VAC	40KA	Din Rail Mount



Surge Protectors / Three Phase Surge Protector



TSP3086

SPD Type	Operating Voltage	Surge Current Rating	Mounting
Type 3/Class D	440VAC	8KA	Din Rail Mount



TSP3206

SPD Type	Operating Voltage	Surge Current Rating	Mounting
Type 2/Class C	440VAC	20KA	Din Rail Mount



Note: Refer Datasheet for partwise approval status





Surge Protectors / Three Phase RC Filter



TRC3083

SPD Type Type 3/Class D	Operating Voltage 440VAC	Surge Current Rating 8KA	Mounting Chassis Mount
UKCA CE RoHS COMPLIANT			



TRC4083

SPD Type Type 3/Class D	Operating Voltage 440VAC	Surge Current Rating 8KA	Mounting Chassis Mount
UKCA CE RoHS COMPLIANT			

Surge Protectors / DC Surge Protector



DSP406

SPD Type Type 2/Class C	Operating Voltage 600VDC	Surge Current Rating 40KA	Mounting Din Rail Mount
CE RoHS COMPLIANT			

Surge Protectors / Network Signal Surge Protector



NSPRJ45

SPD Type Type 2/Class C	Operating Voltage 8VDC	Surge Current Rating 5KA	Mounting Hanging Mount
CE RoHS COMPLIANT			



Note: Refer Datasheet for partwise approval status



04 Power Quality Products

Power quality products provide uninterrupted power supply and manage Harmonics, maintaining consistent power quality. Our superior range of Line and Load Reactors and Harmonic filters ensure reliable and efficient quality power for industrial and home needs.

Application

Industries						
	Office Automation Printers Fax machines Monitors	Drives & Controls AC & DC Motor Drives Servo Drives Rectifiers Inverters Converters	Machinery & Robotics Machinery, Robotics, Chemical & Mining industry Conveyers, Laser cutting, Wood working machines, Plotters	Consumer Goods Induction heaters, Coffee machines, Refrigeration and air conditioning, Amplifiers, Video, TV, Screens, Cooking equipment, Laundry machine, Tumbler machine	Power & Energy Management SMPS, UPS, PV systems, DC/DC converters, Gen-sets, Wind turbines, Fuel cells, Gas turbines, Battery charging	Medical MRI, EEG, ECG, CAT Scanners, Measurement devices, Test equipment
POWER QUALITY PRODUCTS						
SPQR-4		✓	✓		✓	
TPQR-4		✓	✓		✓	
PQR-4		✓	✓		✓	
TPQS3113		✓	✓		✓	
TPQH3411		✓	✓		✓	
TPQH31011 / TPQH31311		✓	✓		✓	
TPQH31111 / TPQH31211		✓	✓		✓	
TPQH3311		✓	✓		✓	
TPQDR3914		✓	✓		✓	

Model	Voltage Ratings	Current Ratings (A)					For 50/60 Hz grids	0.8% Impedance	4% Impedance	6% Impedance	Insulation class F	Insulation class N
		1	250	500	1000	1250						
SPQR-4	250VAC	2			1000		✓		✓		✓	
TPQR-4	480VAC	1.76			1010		✓		✓		✓	
PQR-4	480VAC	1.76			1010		✓		✓			✓
TPQS3113	480VAC	2.3			1000		✓			✓	✓	
TPQDR3914	480VAC	4		500			✓	✓			✓	

Model	Voltage Ratings	Current Ratings (A)				For 50Hz grids	For 60Hz grids	For 50/60Hz grids	LC Configuration	LCL Configuration	Full performance THDi <5%	With Circuit Breaker	With Jumper
		1	250	500	1000								
TPQH3411	415VAC	1.63	376			✓				✓			
TPQH31011/TPQH31311	415VAC		297	766		✓			✓		✓	✓	✓
TPQH31111/TPQH31211	415VAC			300	766	✓				✓	✓	✓	✓
TPQH3311	415VAC	1.62	376			✓			✓				



Power Quality / AC Single Line Reactor



SPQR-4

Operating Voltage
250VAC

Current Rating
2A to 1000A

Operating Frequency
50/60Hz

Impedance
4% @ 230VAC



Power Quality / Three Phase Line Reactor



TPQR-4

Operating Voltage
480VAC

Current Rating
1.76A to 1010A

Operating Frequency
50/60Hz

Impedance
4% @ 400VAC



PQR-4

Operating Voltage
480VAC

Current Rating
1.76A to 1010A

Operating Frequency
50/60Hz

Impedance
4% @ 400VAC



Power Quality / Three Phase Sinewave



TPQS3113

Operating Voltage
480VAC

Current Rating
2.3A to 1000A

Operating Frequency
50/60Hz



TPQDR3914

Operating Voltage
480VAC

Current Rating
4A to 500A

Operating Frequency
50-60Hz

Impedance
0.8% @ 400VAC



Note : Refer Data sheet for partwise approval status



Power Quality / Three Phase dv/dt Reactor
Power Quality / Three Phase Passive Harmonic Filter

Note : Refer Data sheet for partwise approval status

Operating Voltage
415VAC

Current Rating
1.62A to 376A

Operating Frequency 50Hz

Protection Category
IP00



TPQH3411

Operating Voltage
415VAC

Protection Category
IP00

Current Rating
1.63A to 376A

Operating Frequency 50Hz



TPQH31011 / TPQH31311

Operating Voltage
415VAC

Current Rating
297A to 766A

Protection Category
IP00

Operating Frequency 50Hz



TPQH31111 / TPQH31211

Operating Voltage
415VAC

Current Rating
300A to 766A

Protection Category
IP00

Operating Frequency 50Hz



TPQH3311



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