EMIS

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Product Catalogue

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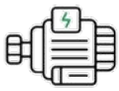
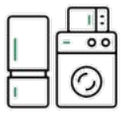
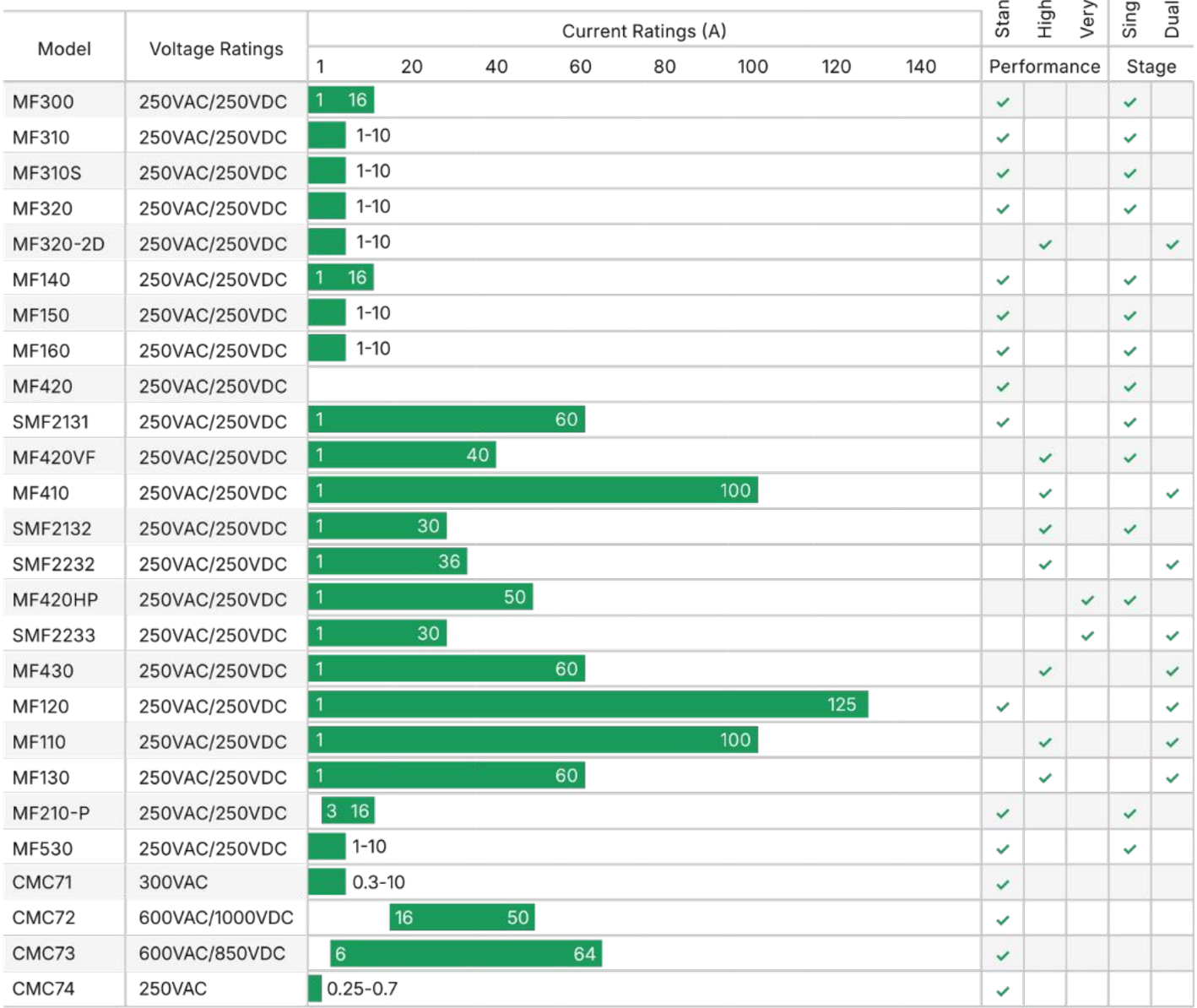
01 EMI/EMC Products

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 optical 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)
1 20 40 60 80 100 120 140
Standard
High
Very High
Performance
Single Stage Circuit
Dual Stage Circuit
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

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	Perfomance			Stage		
MF610	1200VDC	25 2500			✓	✓		
MF620	500VDC/1000VDC/1500VDC	150 1600			✓		✓	

EMI Filters / Single Phase Filter / IEC Inlet

Standard	High	Very High
■		

MF300

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
250VAC	1A to 16A	50/60Hz	Panel Mount

Performance Indicator

MF310

Standard	High	Very High
■		

MF320

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

Performance Indicator

Standard	High	Very High
■		

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

Note: Refer Datasheet for partwise approval status

Performance Indicator

MF140 (Medical)

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
250VAC	1A to 16A	50/60Hz	Panel Mount

Performance Indicator

Standard	High	Very High
■		

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

Performance Indicator

Standard	High	Very High
■	■	

Note: Refer

Operat ng Frequency
50/60Hz

Mount ng
Panel Mount

Note: Refer Datasheet for partwise approval status

Standard	High	Very High
■		

MF420-VF

Operating Voltage
250VAC

Current Rating
1A to 40A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

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

Performance Indicator

Standard	High	Very High
■		

SMF2131

Operating Voltage
250VAC

Current Rating
1A to 60A

Operating Frequency
50/60Hz

Mounting
Chassis Mount

Performance Indicator

Standard	High	Very High
■		

MF420

Note: Refer Datasheet for partwise approval status

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
250VAC	1A to 125A	50/60Hz	Chassis Mount

Performance Indicator

SMF2132

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

Performance Indicator

Standard	High	Very High
■	■	

MF210-P

Mount ng	Operat ng Voltage	Current Rat ng	Operat ng Frequency
Stud Mount	250VAC	3A to 16A	50/60Hz

Performance Indicator

Standard	High	Very High
■		

PCB Filters – MF530

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
250VAC	1A to 10A	50/60Hz	PCB Mount

Performance Indicator

Standard	High	Very High
■		

EMI

MF410

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

Performance Indicator

Standard	High	Very High
■	■	

EMI Filters / Single Phase Filter / Dual Stage

MF430

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

Performance Indicator

Standard	High	Very High
■	■	

MF110 (Medical)

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

Performance Indicator

Standard	High	Very High
■	■	

MF130 (Medical)

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

Performance Indicator

Standard	High	Very High
■	■	

SMF2232

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
250VAC	1A to 36A	50/60Hz	Chassis Mount

Performance Indicator

Standard	High	Very High
	■	

EMI Filters / Single Phase Filter / Dual Stage

SMF2233

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

Performance Indicator

Standard	High	Very High
	■	■

EMI Filters / Chokes

Differential Mode Choke Coil (DMC)

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

Performance Indicator

Standard	High	Very High
■		

Common Mode Choke Coil (CMC)

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

Performance Indicator

Standard	High	Very High
■		

CMC71

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

Performance Indicator

Standard	High	Very High
■		

Note: Refer Datasheet for partwise approval status

Note: Refer Datasheet for partwise approval status

EMI Filters / Chokes

CMC72

Operating Voltage	Current Rating	Operating Frequency	Mounting
600VAC/1000VDC	16A to 50A	DC to 400Hz	Through-hole pin

Performance Indicator

Standard	High	Very High
▬		

CMC73

Operating Voltage	Current Rating	Operating Frequency	Mounting
600VAC/850VDC	6A to 64A	DC to 400Hz	Through-hole pin

Performance Indicator

Standard	High	Very High
▬		

CMC74

Operating Voltage	Current Rating	Operating Frequency	Mounting
250VAC	0.25A to 0.7A	DC to 400Hz	Through-hole pin

Performance Indicator

Standard	High	Very High
▬		

EMI Filters / Two Phase Filter

MF 422

Operat ng Voltage	Current Rat ng	Operat ng Frequency	Mount ng
1A to 100A		50/60Hz	440VAC Chassis Mount

Standard	High	Very High
▬		

Performance Indicator

Note: Refer Datasheet for partwise approval status

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

EMI Filters / Three Phase Filter / Mult Stage

Note: Refer Datasheet for partwise approval status

Operating Voltage	Current Rating	Operating Frequency	Mounting
760/750VAC	6A to 1000A	50/60Hz	Chassis Mount

Performance Indicator

Standard	High	Very High
■		

MF423-3-2D-BS-HV

Operating Voltage	Current Rating	Operating Frequency	Mounting
760/750VAC	7A to 180A	50/60Hz	Book Shelf type - Chassis Mount

Performance Indicator

Standard	High	Very High
■	■	

TMF3221 / TMF3222

Operating Voltage	Current Rating	Operating Frequency	Mounting
520/760/750VAC	10A to 230A	50/60Hz	Chassis Mount

Performance Indicator

Standard	High	Very High
■	■	

MF423-4-2D

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

Performance Indicator

Standard	High	Very High
■	■	

MF423-4-2D-BS

EMI Filters / Three Phase Filter / Mult Stage

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

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

Operat ng Frequency
50/60Hz

Mount ng
Chassis Mount

Performance Indicator

Standard	High	Very High
■	■	

Note:

Refer Datasheet for partwise approval status

EMI Filters / Three Phase Filter / Mult Stage

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

Operat ng Frequency
50/60Hz

Mount ng
Chassis Mount

TMF3333

Note: Refer Datasheet for partwise approval status

EMI Filters / Three Phase Filter / Mult Stage

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 -

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
	▬	▬

Chassis Mount

Note: Refer Datasheet for partwise approval status

EMI Filters / DC Filter

MF610

Operating Voltage
Max 1200VDC

Current Rating
25A to 2500A

Mount ng
Chassis Mount

Performance Indicator

Standard	High	Very High
■	■	

MF620

Operating Voltage
Max 1500VDC

Current Rating
150A to 1600A

Mount ng
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** 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
FEEDTHROUGH COMPONENTS						
FTCAC					✓	✓
FTFAC					✓	✓
FTCDC					✓	✓

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

Feedthrough Components / Feedthrough Capacitor

FTCAC

Operat ng Voltage	Current Rat ng	Mount ng
250VAC	6A to 200A	Bulk Head Mount

FTCDC

Operat ng Voltage	Current Rat ng	Mount ng
130VDC / 130VAC	6A to 200A	Bulk Head Mount

Feedthrough Components / Feedthrough Filter

FTFAC

Operat ng Voltage	Current Rat ng	Mount ng
250VAC	6A to 200A	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) 1 20 40 60	Type 1	Type 2	Type 3
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	Operating Voltage	Surge Current Rating	Mounting
Type 3/Class D	440VAC	8KA	Chassis Mount

TRC4083

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

Surge Protectors / DC Surge Protector

DSP406

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

Surge Protectors / Network Signal Surge Protector

NSPRJ45

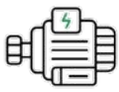
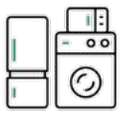
SPD Type	Operat ng Voltage	Surge Current Rat ng	Mount ng
Type 2/Class C	8VDC	5KA	Hanging Mount

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

Operat ng Voltage
415VAC

Current Rat ng
1.62A to 376A

Operat ng Frequency 50Hz

Protect on Category
IP00

Current Rat ng 1.63A to 376A

Operat ng Frequency 50Hz

TPQH3411

Operat ng Voltage
415VAC

Protect on Category IP00

TPQH31011 / TPQH31311

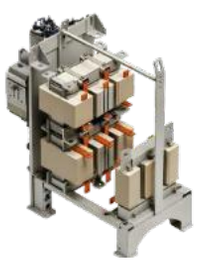
Operat ng Frequency 50Hz

Operat ng Voltage
415VAC

Current Rat ng
297A to 766A

Protect on Category IP00

Operat ng Frequency 50Hz



TPQH31111 / TPQH31211

Operat ng Voltage
415VAC

Current Rat ng
300A to 766A

Protect on Category
IP00

TPQH3311