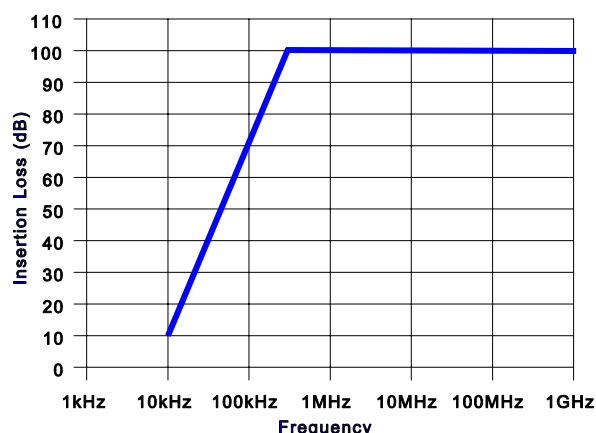


# EQUIPMENT FILTERS HIGH CURRENT, THREE PHASE



## APPLICATIONS

This range of high current equipment filters is suitable for a wide variety of EMC applications where high performance filtering of single phase a.c. mains lines is required. The filters incorporate feedthrough capacitors to give excellent high frequency performance. They are designed for either bulkhead or chassis mounting for optimum flexibility although maximum performance will only be achieved when bulkhead mounted. Self-healing metallised plastic film capacitors are used for maximum reliability and safety. This range of filters is intended for use in a permanently earthed application and complies with the proof voltage requirements of EN133200. The range is RoHS compliant.

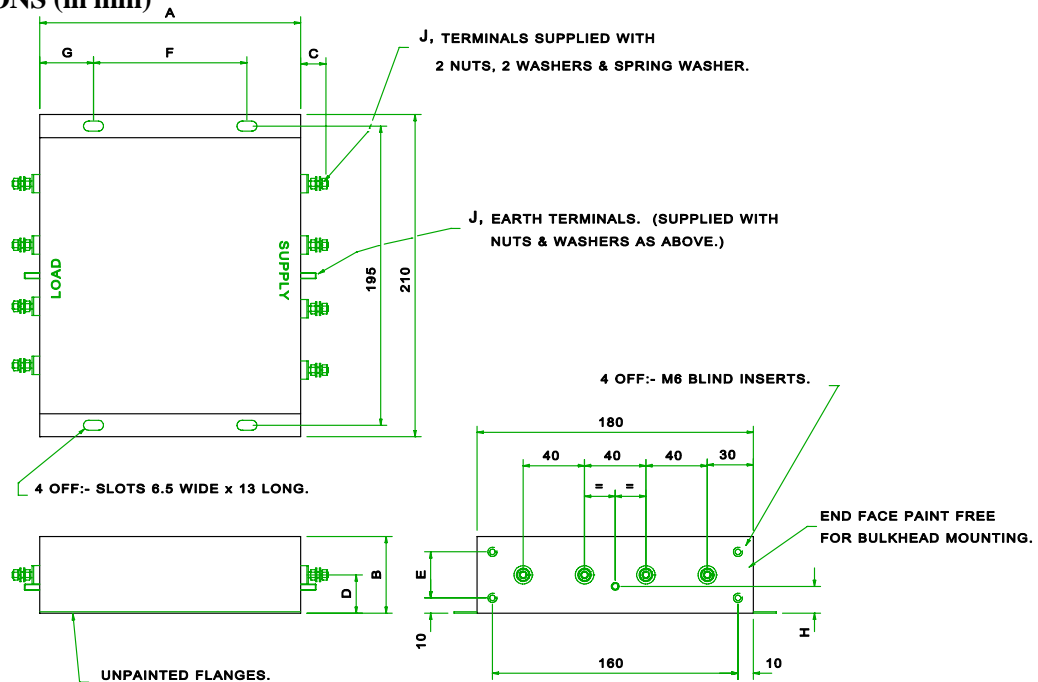
## PRODUCT RANGE

MPE PART NUMBER	CURRENT RATING @ 50°C (A)	HEAT DISSIPATION (W)	MAJOR DIMENSIONS (mm)			APPROX. WEIGHT (kg)
			A	B	C	
DS29012	10	7	170	180	50	2
DS29013	16	11	170	180	50	2
DS29014	32	20	170	180	75	3
DS29015	63	40	220	180	85	5
DS29016	100	60	300	180	90	7

## GENERAL SPECIFICATION

Rated Voltage	440/250V a.c. 50/60Hz
Test Voltage (line – earth)	2250V d.c.
Test Voltage (line – line)	1250V d.c.
Rated Current	As tabulated above
Insulation Resistance	100MΩ minimum
Maximum Temperature Rise on Full Load	25°C
Operating Temperature Range	-25°C to +85°C
Maximum Leakage Current (at 250V 50Hz)	125mA
Maximum Heat Dissipation	As tabulated above
Insertion Loss (50Ω, asymmetric)	100dB from 300kHz to 1 GHz (see graph)
Maximum Discharge Time to below 34V	2 seconds

## DIMENSIONS (in mm)



Filters are housed in painted electroplated steel cases.

MPE PART NUMBER	DIMENSIONS in mm (nominal)								
	A	B	C	D	E	F	G	H	J
DS29012	170	50	18	25	30	100	35	17.5	M4
DS29013	170	50	18	25	30	100	35	17.5	M4
DS29014	170	75	18	37.5	55	100	35	25	M4
DS29015	220	85	32	42.5	65	120	50	25	M6
DS29016	300	90	32	45	70	200	50	25	M6

## INSTALLATION DETAILS

The chassis and/or bulkhead should be a flat clean paint-free metal surface to provide a good low impedance earth bond.

Recommended thread tightening torques: M4: 1.2 N-m M6: 2.5 N-m

## SAFETY

These filters must be solidly and permanently earthed via the chassis mounting, the bulkhead mounting, or via the earth screw provided. Terminals must be suitably enclosed by the user.

These filters are fitted with discharge resistors, but the user must still ensure that the capacitors are safely discharged prior to touching terminals. This range of products is RoHS compliant.

MPE product data sheets are provided for guidance only and are ©MPE Limited

MPE Limited, Hammond Road, Knowsley Industrial Park, Liverpool L33 7UL, UK

Tel: +44 (0)151 632 9100 Fax: +44 (0)151 632 9112

E-Mail: sales@mpe.co.uk Web Site: www.mpe.co.uk

Approved to ISO9001

