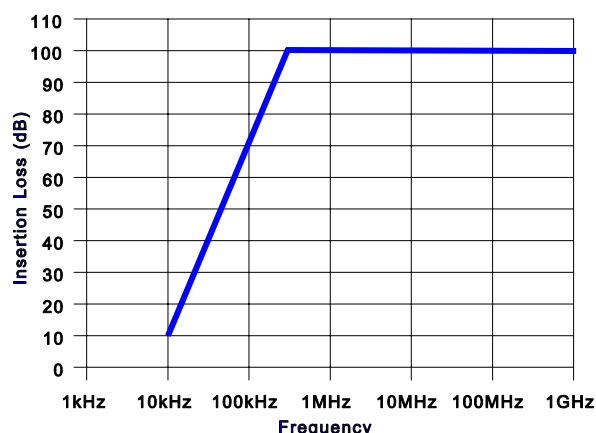


EQUIPMENT FILTERS HIGH CURRENT, THREE PHASE



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.

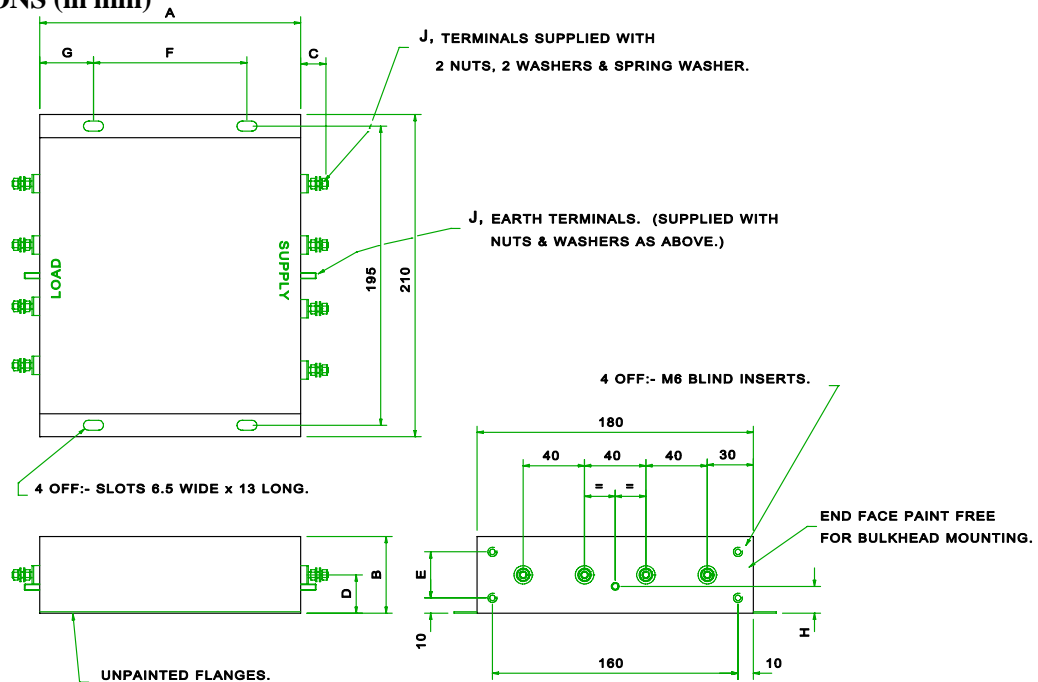
PRODUCT RANGE

| 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

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Approved to ISO9001

