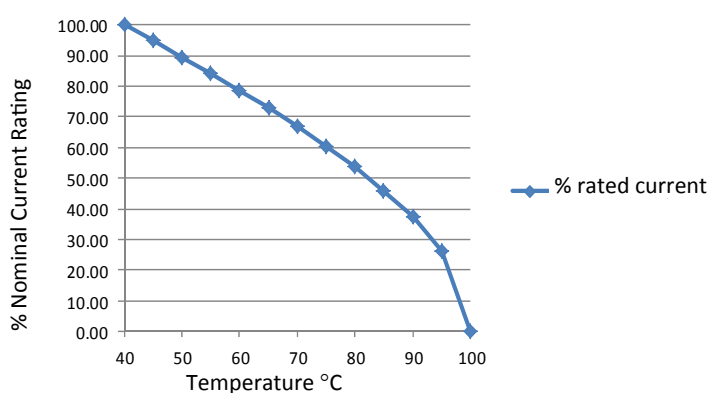


RES163F03 Chassis Mounted EMC and Harmonic Hybrid Filter

Roxburgh EMC's RES163F03 filter combines mitigation of mid to high order harmonics with RFI attenuation to help meet harmonic and EMC limits in one compact low cost package.



Temperature Derating Curve for EMC Filters Rated at 40°C Ambient and 100°C Maximum



Call us on:

+44 (0) 1724 273200

Features:

- 3 Amp
- Single phase
- Hybrid RFI and Harmonic Mitigation

Benefits:

- Compact size
- Fast-on terminations
- Quick and easy mounting

Application Examples:

- Ventilation
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Building automation
- Machinery
- Lighting

Full technical specification on page 2

Performance Curves on page 3

DEM Manufacturing

Deltron Emcon House
Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe, North Lincolnshire.
DN15 8RF



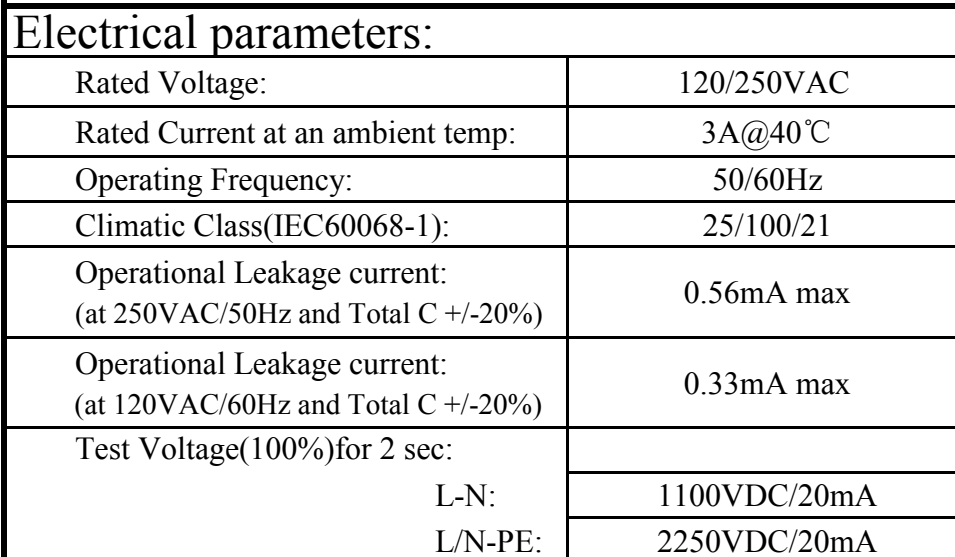
Tel: +44 (0) 1724 273200

Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:

The diagram illustrates a three-phase power line model. The 'LINE' section on the left includes phases L, N, and a ground reference PE. Phase L features a shunt capacitor C_{x1} connected to PE. Phase N includes a shunt inductor $L1$ connected to PE. Both phases L and N have series inductors $L1$ and $L2$. A Z-shaped component, likely representing a transformer or a specific load, is connected between the output of $L2$ and phase R. Phase R includes a shunt resistor R connected to PE. The 'LOAD' section on the right includes phases L' and N'. Phase L' has a shunt capacitor C_{x2} connected to PE. Phase N' has shunt capacitors C_{y1} and C_{y2} connected to PE. A series capacitor C_{x2} is also shown between the output of phase R and phase L'.



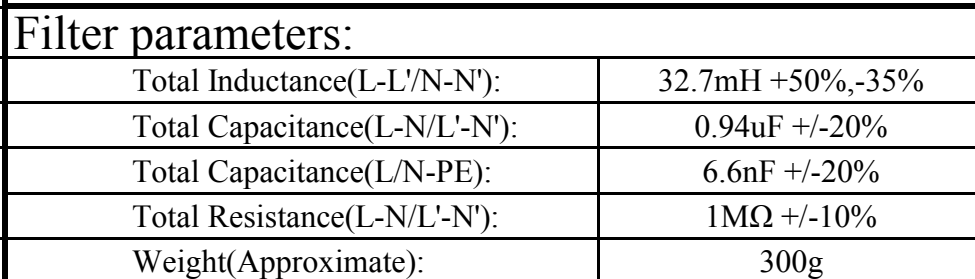
ROXBURGH *EMC*  +44 (0)1724 273200
 sales@dem-uk.com
 www.dem-uk.com/roxburgh

Dimensions(mm):

Technical drawing showing dimensions (mm) for a component. The drawing includes a front view, a top view, and a side view.

Dimensions (mm):

- Front View:
 - Overall Width: 85 ± 1.0
 - Overall Height: 51.7 ± 1.0
 - Inner Width: 75 ± 0.5
 - Inner Height: 63.2 ± 1.0
 - Mounting Hole Diameter: 6.3
 - Mounting Hole Depth: 6.3×0.8
 - Side Flange Thickness: 5.3
- Top View:
 - Overall Length: 40 ± 1.0
 - Overall Width: 27
 - Mounting Hole Diameter: 6.3
 - Mounting Hole Depth: 6.3×0.8
 - Central Slot Width: 12
 - Central Slot Length: 29.5
- Side View:
 - Overall Width: 40 ± 1.0
 - Overall Height: 27
 - Mounting Hole Diameter: 6.3
 - Mounting Hole Depth: 6.3×0.8
 - Central Slot Width: 12
 - Central Slot Length: 29.5

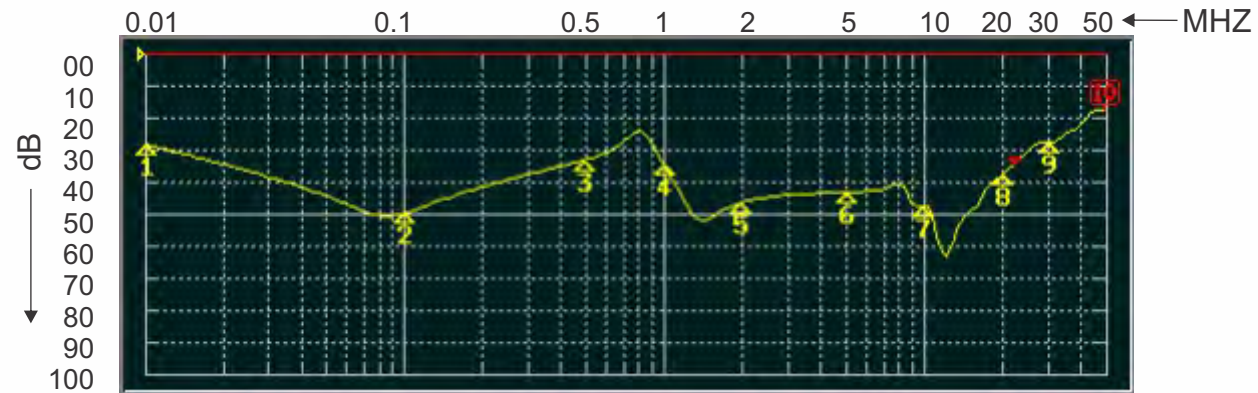


Safety certification				Technical Specification		
UL	☐	CSA	☐	compiled by	Jay Zhang	2020-1-15
ENEC	☐	CQC	☐	reviewed by	Pallas Wang	2020-1-15
CE	☒	VDE	☐	approved by	Henry Huang	2020-1-15

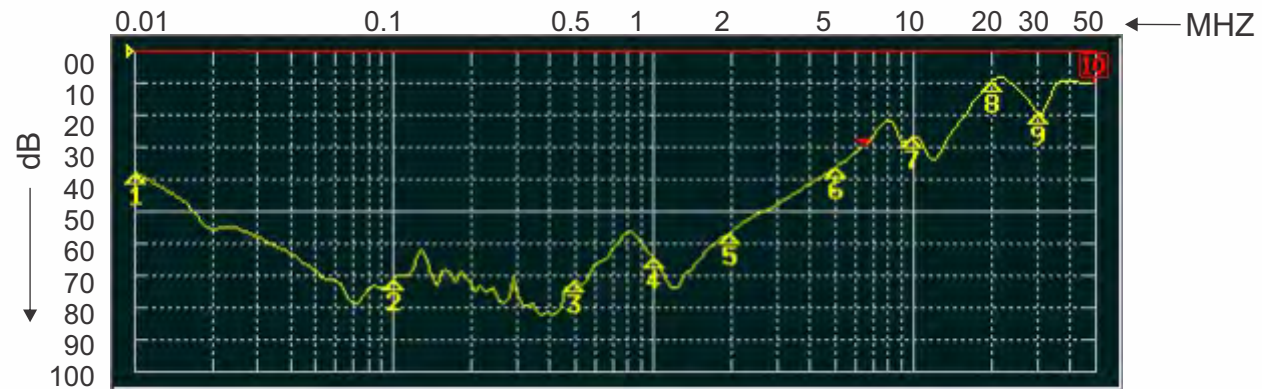
Type	RES163F03	single-phase emc filter	
		stage marker	V1.02

ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES163F03



COMMON MODE



DIFFERENTIAL MODE

