

Military Compliant VSD

Current Ratings: **8, 15, 25, 32, 50, 75, 100, 125, 150, 300** AMPS.

Operating Voltage: Three Phase three wire. 480VA.C.

This exciting new range recently designed to ensure variable speed drives meet Def Stan: 59/41 and 59/411 emission levels for below deck use. This innovative design structure has evolved with performance and power losses in mind.

Unlike conventional filter technology this range has the advantages of having low earth leakage, due to the optimum components used within filter units. The output filter has low power losses so that the filter can remain a discrete device yet provide a high level of performance that allows standard cable use for compliance.

Both input and output filters are paired to ensure correct matching of power ratings. These pairs are housed in an aluminum case and encapsulated to provide resistance to shock and vibration whilst have a low weight and volume.



TYPICAL APPLICATIONS

- Variable speed drives
- Vector drives
- Fire pumps
- Military Cranes

TECHNICAL ADVANTAGES

- Compact dimensions
- High attenuation characteristics
- Transient protection available
- Low losses
- Low earth leakage



COMMERCIAL ADVANTAGES

- Reduced volume
- Reduced weight
- Cost effective

Technical Specifications

Current Up to (Amps)	No of Lines	Operating Voltage @ 50-60Hz	Max AC Volt Drop @ Full Load (I/P)	Max AC Volt Drop @ Full Load (O/P)	MTBF (hours)	Earth Leakage mA	Transient energy Absorption (Typical)	Temperature Rise @ Full Load	Termination Type	Power Dissipation	Dimensions								
											A	B	C	D	E	F	G	H	J
5	3	Upto 480V	<2V/Line	TBA	100,000	3	20J	< 40 C	Connectors	TBA	230	130	70	200	214	50	60	105	M6 x 20mm
15										TBA	230	130	70	200	214	50	60	105	M6 x 20mm
25										TBA	230	130	70	200	214	50	60	105	M6 x 20mm
32						5	30J	< 40 C	Connectors	TBA	300	200	100	200	276	80	20	180	M6 x 20mm
50										TBA	300	200	100	200	276	80	20	180	M6 x 20mm
75										TBA	400	250	130	360	376	110	20	230	M8 x 40mm
100						10	50J	< 45 C	Connectors	TBA	400	250	130	360	376	110	20	230	M8 x 40mm
125										TBA	400	250	130	360	376	110	20	230	M8 x 40mm
150										TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
300						20	70J	< 45 C	Studs	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

STANDARDS

The MVSD range of filters is built in accordance with the relevant BS, VDE, UL, CE & CSA safety standards.

All Total EMC Products Ltd filters & power supplies are designed

to meet the latest requirements for Health and Safety. Particularly EN 133200

The MVSD range is specifically designed to assist Variable Speed drives in

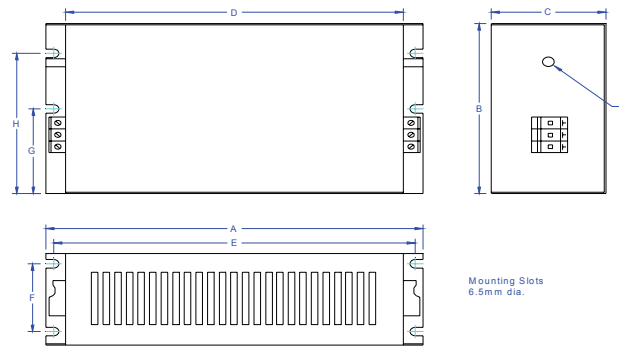
gaining compliance with EMC Defence standards such as 59/41, 59/411 & 59/412

STD 461/462. Jan 2013 Ver 1

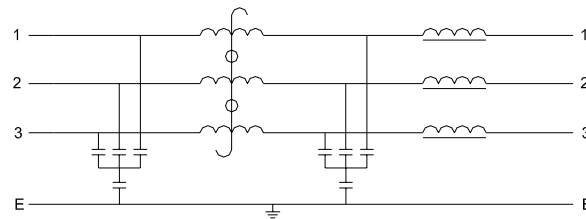
REGULATIONS

All electronic equipment that is commissioned into military service must comply with the relevant Defence Standards.

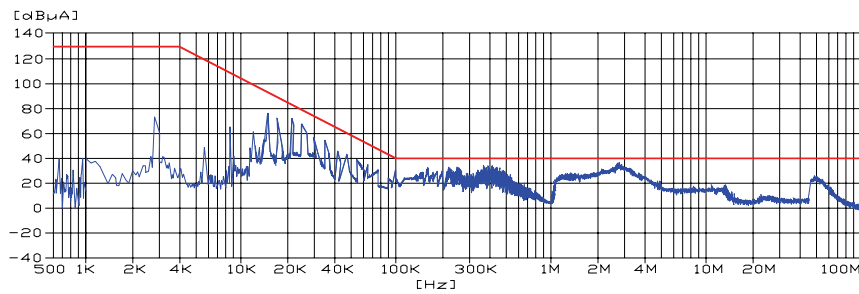
Dimensional Data



Schematic(s)



Performance characteristics insertion loss curves



Part number / Ordering information

MVSD/*/3/3/T**

MVSD = Range of filter

***** = No of Lines on filter (3)

***** = Options (listed below)

Options: T = Transient

******* = Amp Rating of filter

2 = No of Stages on filter

Example: MVSD/050/3/3/- (This is a 50A 3 line three stage unit with transient protection.)

In addition to the standard range of filters & power supplies, Total EMC Products specialize in the design and manufacture of filters to suit your specific requirements.

Due to continuous development Total EMC Products Ltd reserve the right to amend any information contained within this datasheet without prior notice.

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