



ETCO

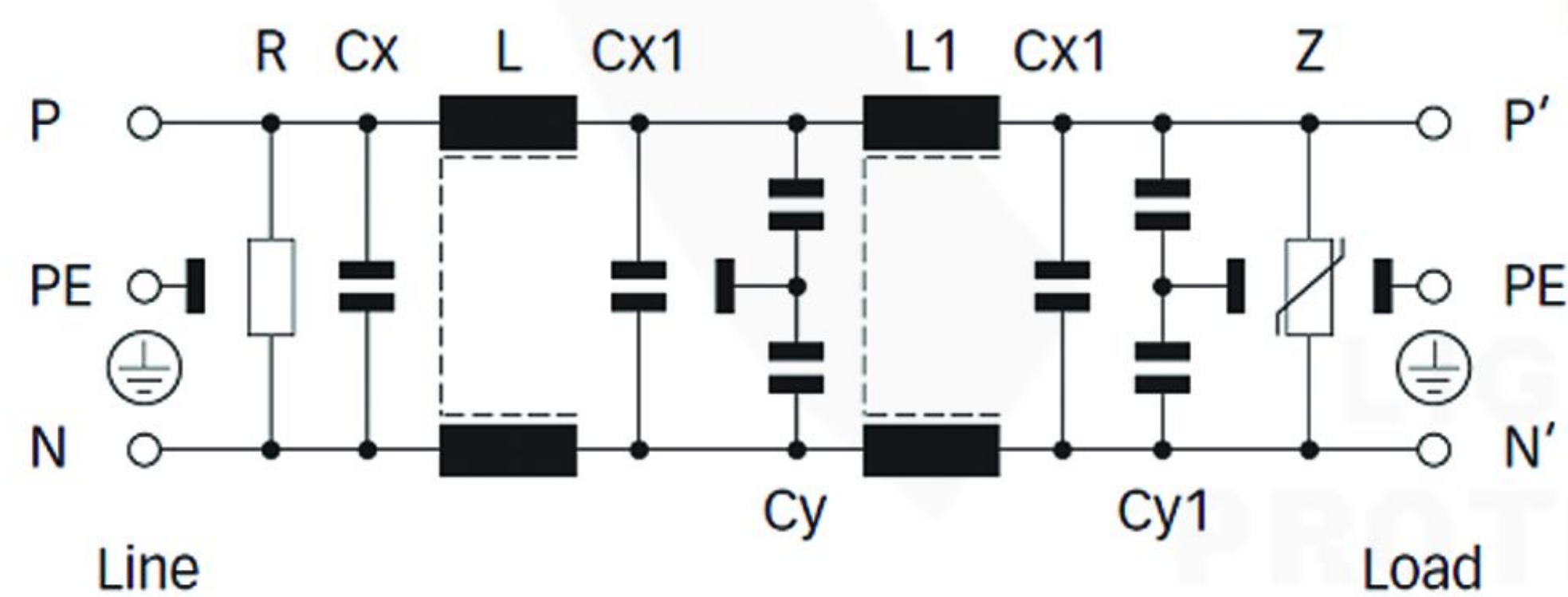
SINGLE PHASE EMC-EMI FILTER
NOISE SOLUTION

www.electrotavan.com

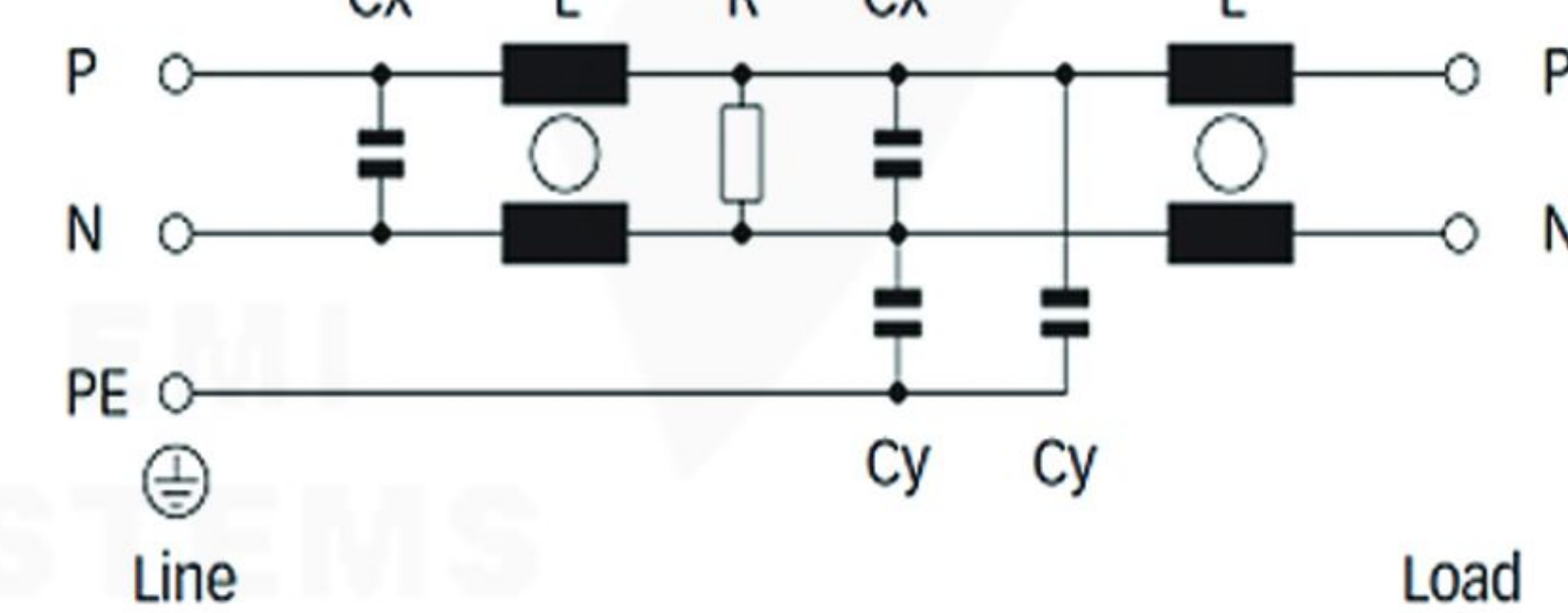


Multi Stages Single Phase EMC/EMI Filter

Three stages filter



Two Stages filter



Technical Specifications

Continuous Operating Voltage	250 VAC (210 ~ 280 VAC)
Rated current	10 – 100 A ac @ 40C
Operating Frequency	50/60 Hz
Best Noise Frequency Attenuation range	100 KHz to 30 MHz (Two stages) 150 KHz to 50 MHz (Three stages)
Protection category (IP)	IP67 (Two stages 10&20A) IP20 (Two stages 30 -100 A) IP20 (Three stages)
Temperature range	-20 to +85 C
Overload capability	1.2x rated current for 1 Hour 1.5x rated current for 1 minute
Transient Voltage (T.V)	2000 V
Design corresponding to	UL 1283 , CSA 22.2 No.8 1986
MTBF @ 45C	100,000 Hours (Three Stages) 150,000 Hours (Two stages)

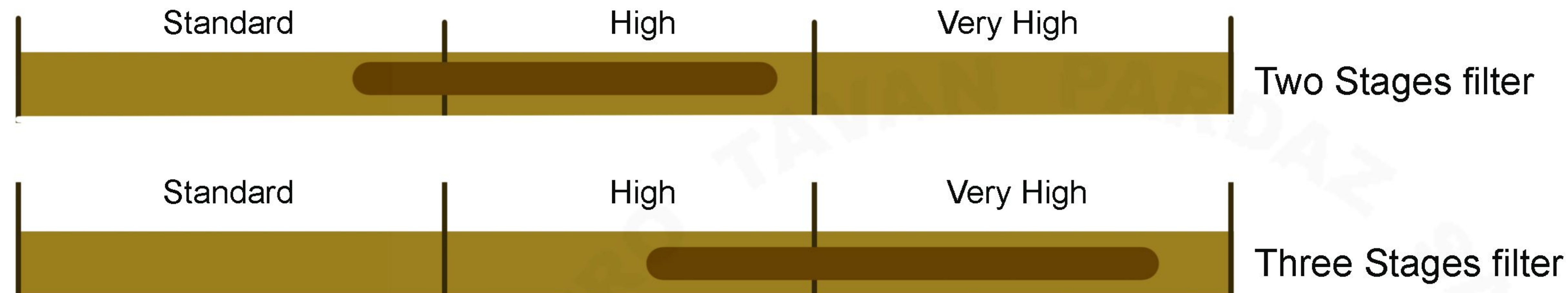


Applications

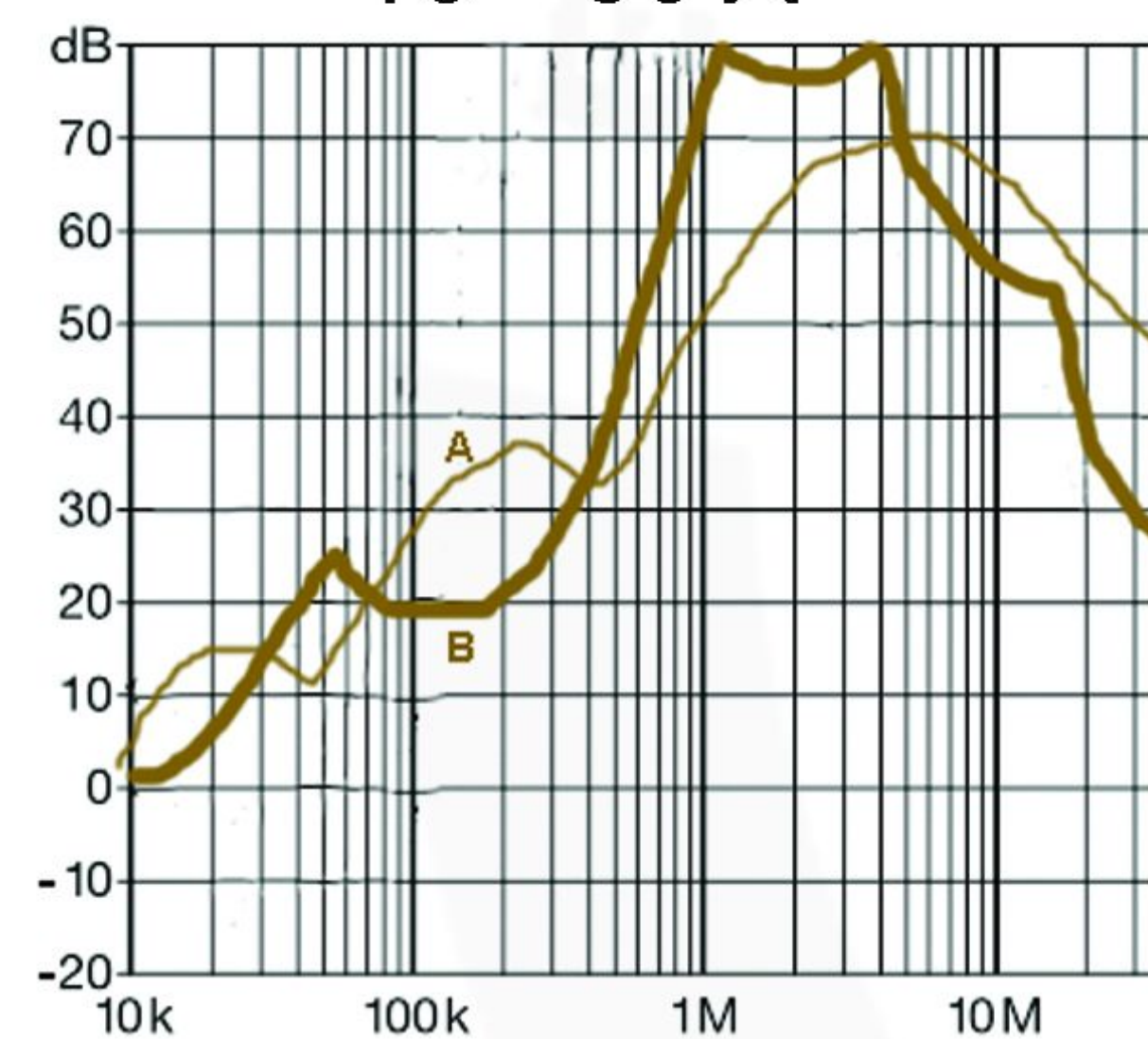
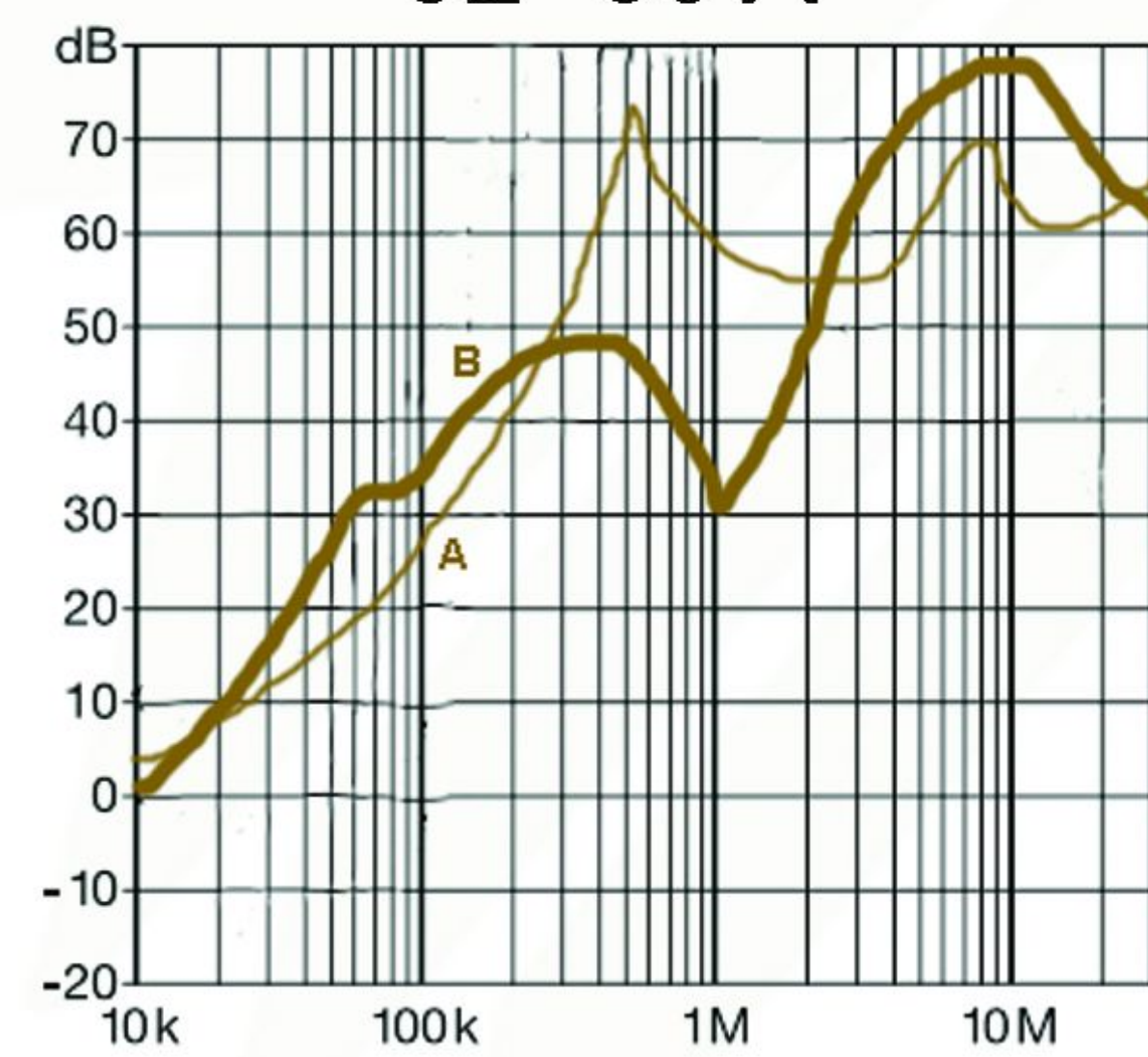
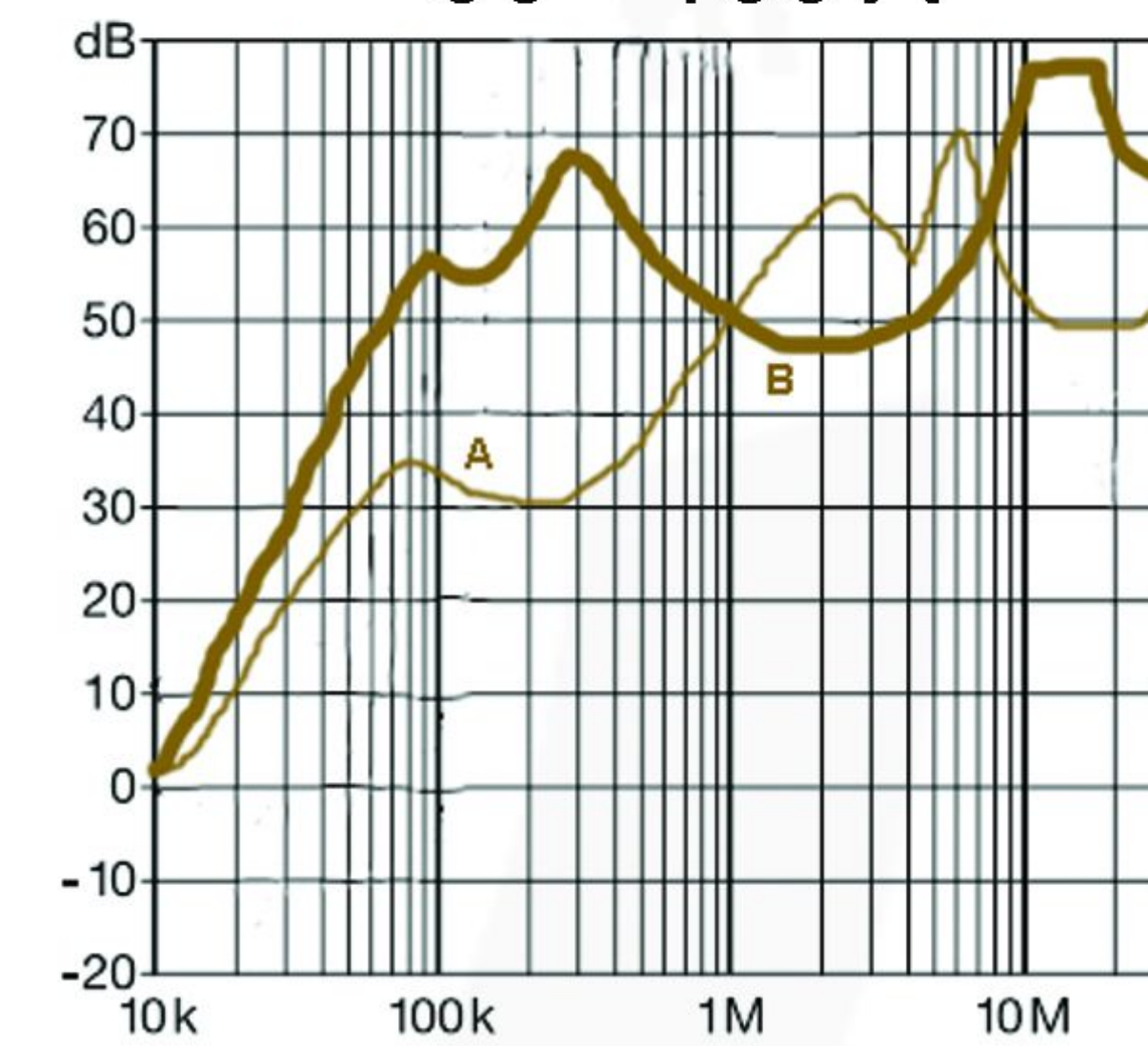
- Single phase systems with high degree pollution of electromagnetic interferences
- Medical equipments
- Data servers and data transfer equipments
- Home appliance protection
- Lighting equipments
- Office automation and datacom equipments
- Machinery
- Single phase industrial applications
- Smart building automation

Features and benefits

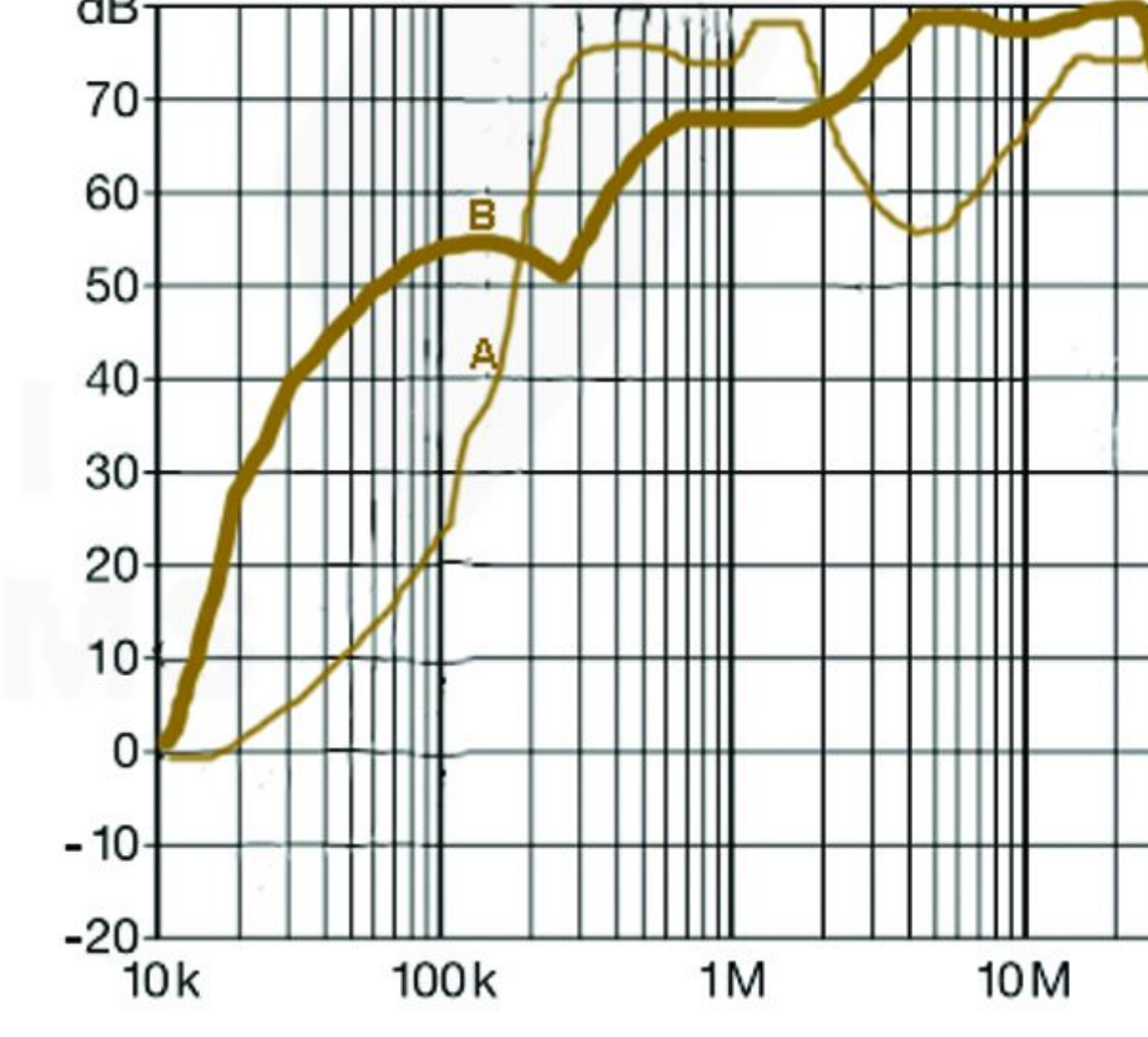
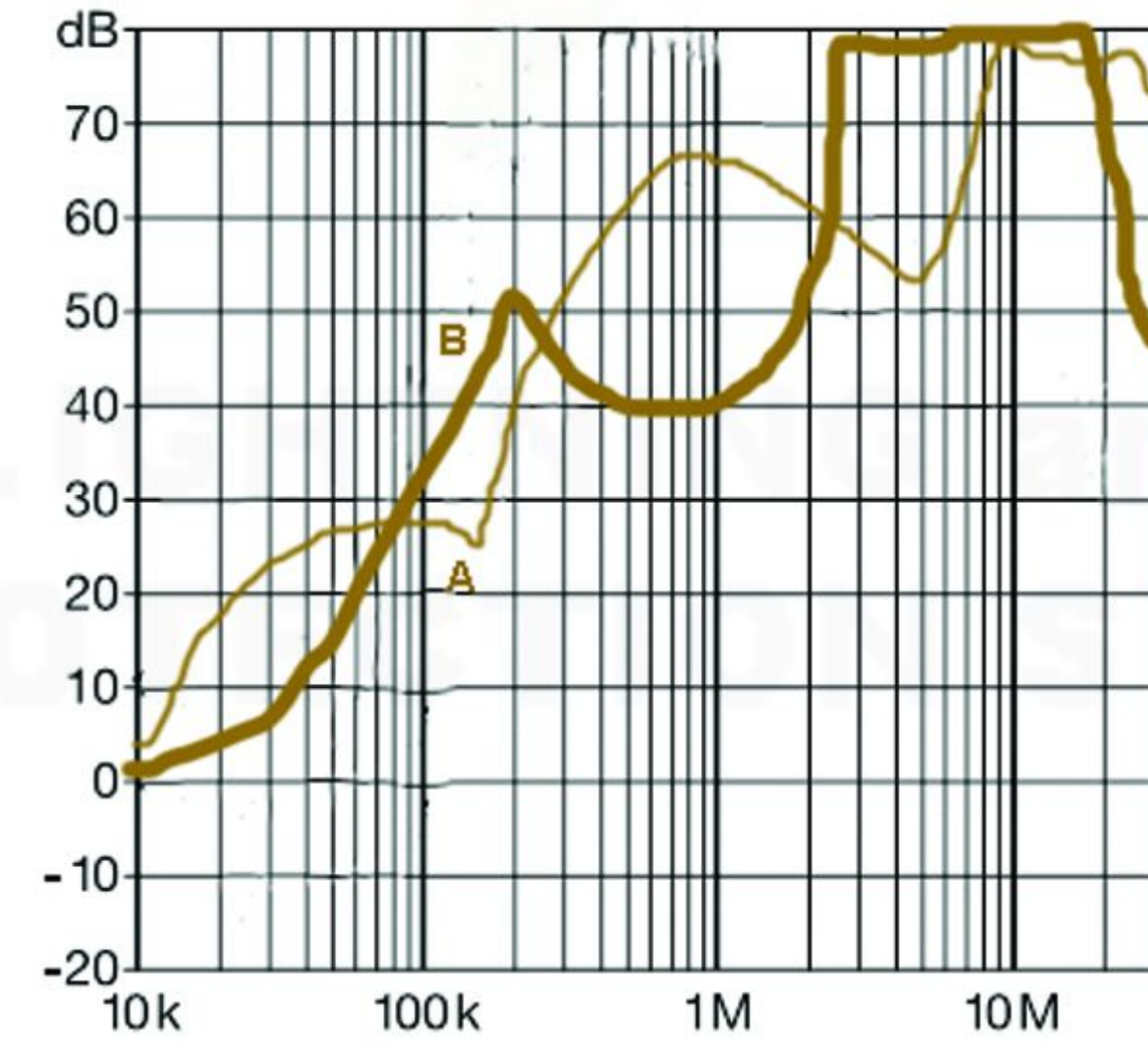
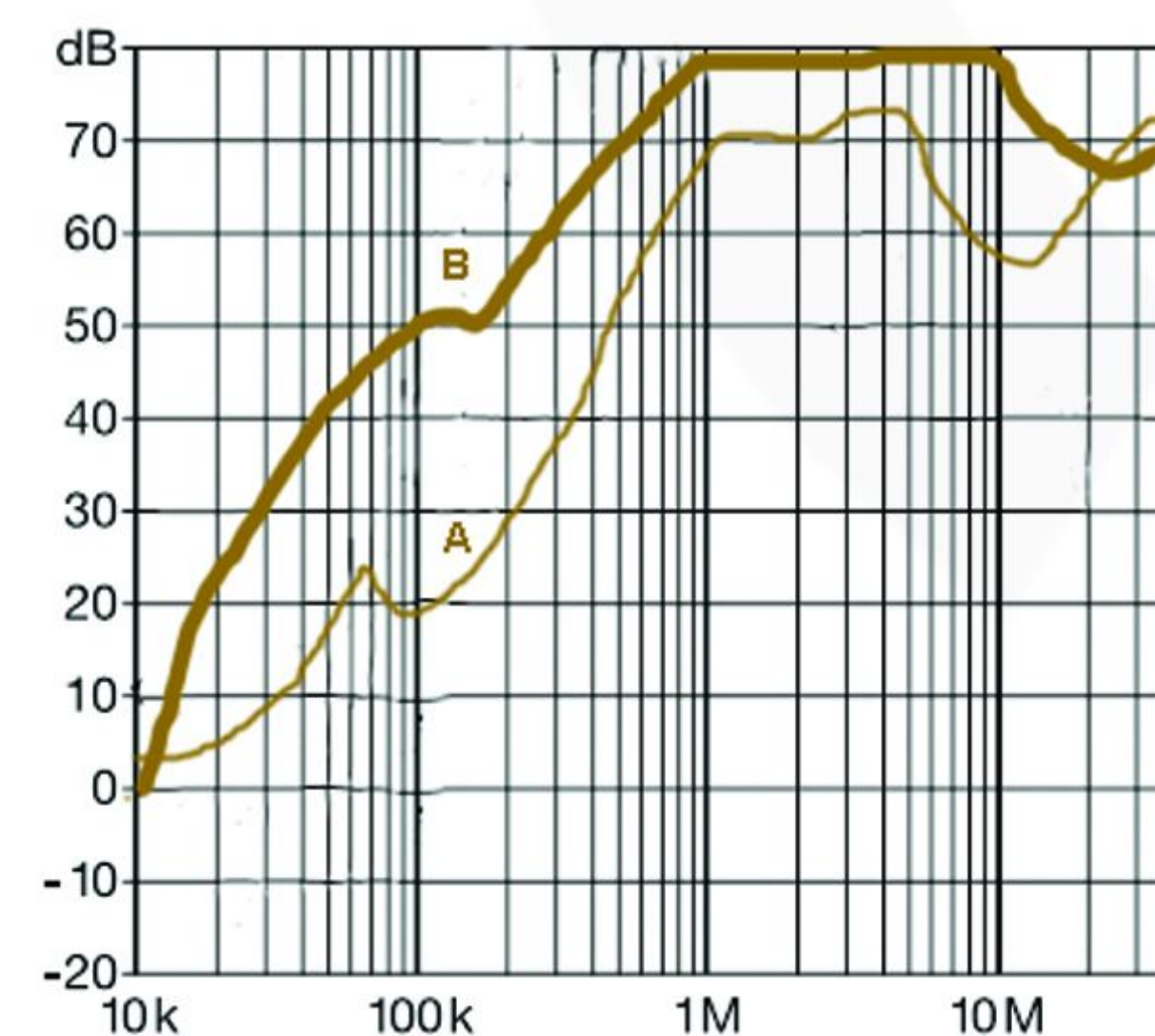
- Using first grade ferrite cores with excellent thermal performance
- Accurate and compact resin coating for thermal discharge and proper temperature performance
- Steel body to prevent any radiated noise from entering the filter
- Suitable dimensions for use in small spaces and, if needed, customization of desired dimensions in high custom volumes
- Good performance in environments with high noise levels
- Quality guarantee and after-sales service

Filter attenuation range**Filter Attenuation performance**

Based on CISPR 17 : A=50 ohm / 50 ohm symmetrical , B=50 ohm / 50 ohm asymmetrical

10 - 30 A**32 -50 A****60 - 100 A**

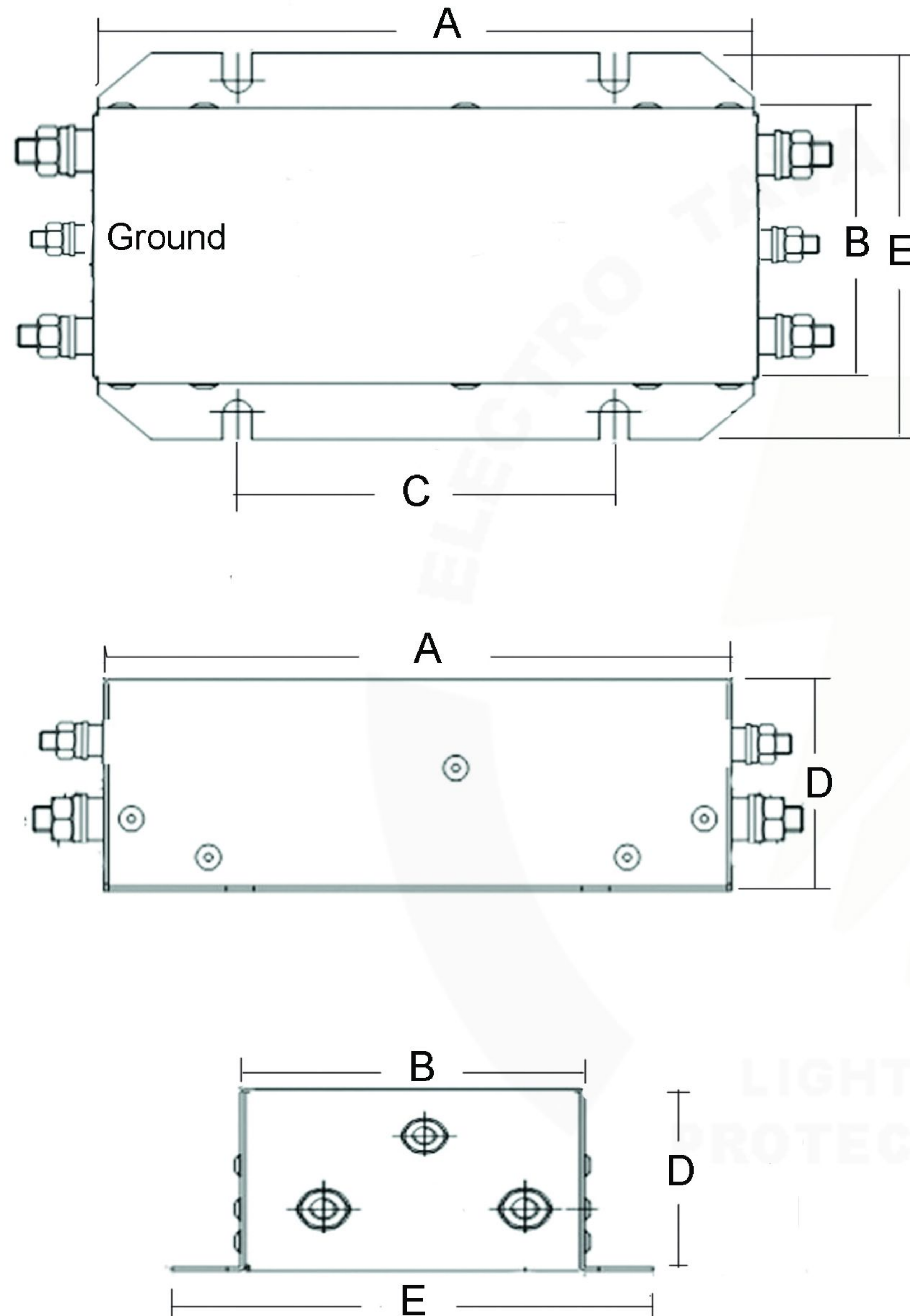
Two Stages
filter



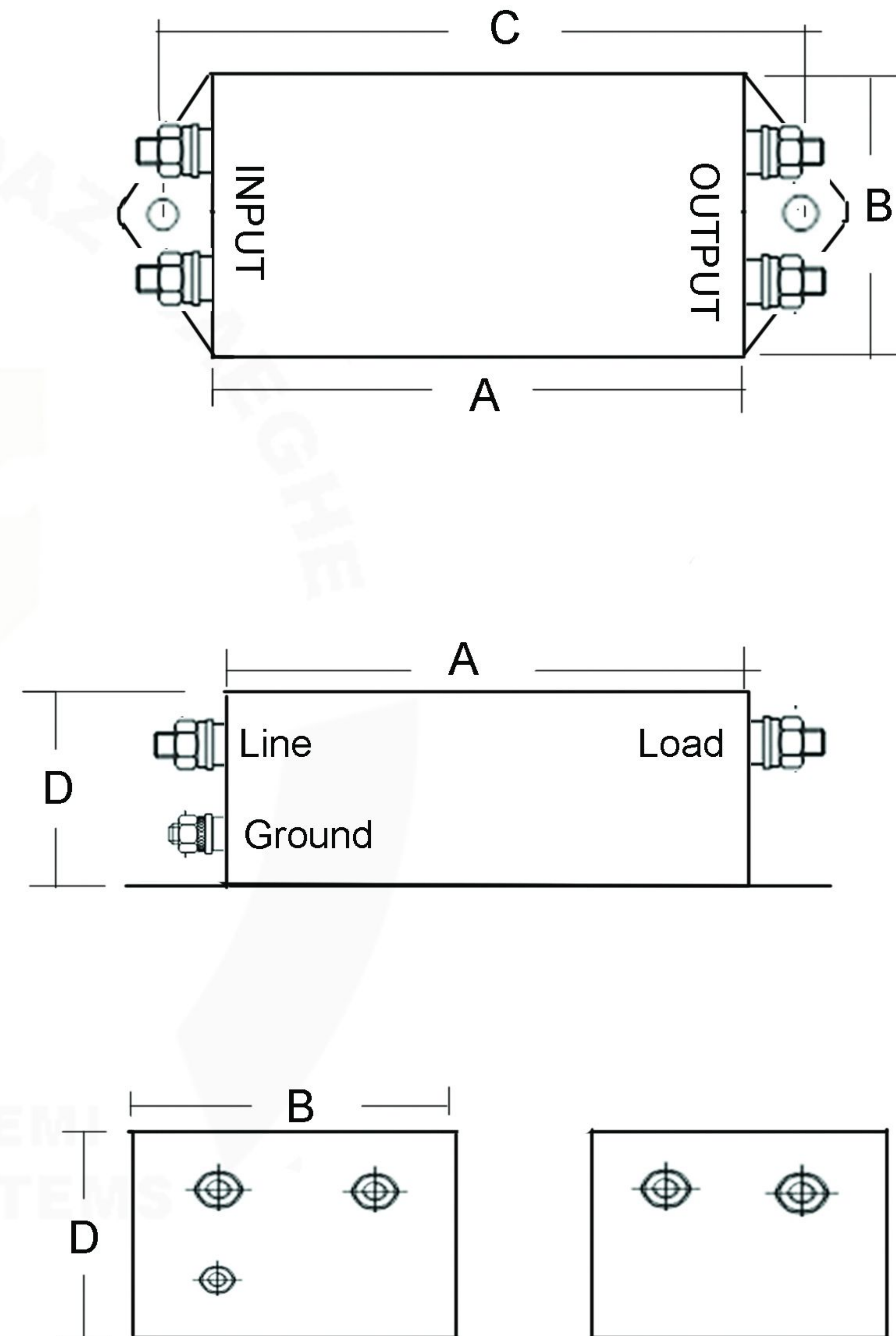
Three Stages
filter

Mechanical Data

Three Stages & 25 -100A Two Stages



10 -20 A Two stages



Two Stages filter selection table

Model	Rated current @ 40C (A)	Leakage current @250 VAC /50 Hz (mA)	Power loss @40C (W)	Connection type		Weight (Kg)	Dimensions				
							A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ET1EMI2S – 250 – 10	10	1.0	1.4	*		0.08	64	50	75	40	*
ET1EMI2S – 250 – 15	15	1.0	1.9	*		0.08	64	50	75	40	*
ET1EMI2S – 250 – 20	20	1.1	2.1	*		0.08	64	50	75	40	*
ET1EMI2S – 250 – 25	25	1.1	2.4	*		0.30	160	100	100	60	130
ET1EMI2S – 250 – 30	30	1.2	2.8	*		0.30	160	100	100	60	130
ET1EMI2S – 250 – 40	40	1.4	3.1	*		0.35	160	100	100	60	130
ET1EMI2S – 250 – 50	50	1.7	3.3	*		0.40	160	100	100	60	130
ET1EMI2S – 250 – 60	60	1.8	3.4	*		0.85	250	150	156	100	180
ET1EMI2S – 250 – 80	80	2.2	3.8	*		0.95	250	150	156	100	180
ET1EMI2S – 250 – 100	100	2.9	4.3	*		1.20	250	150	156	100	180

Three Stages filter selection table

Model	Rated current @ 40C (A)	Leakage current @250 VAC /50 Hz (mA)	Power loss @40C (W)	Connection type		Weight (Kg)	Dimensions				
							A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ET1EMI3S – 250 – 10	10	1.5	1.8	*		0.40	160	100	100	60	130
ET1EMI3S – 250 – 15	15	1.5	2.5	*		0.41	160	100	100	60	130
ET1EMI3S – 250 – 20	20	1.7	2.9	*		0.45	160	100	100	60	130
ET1EMI3S – 250 – 25	25	1.7	3.4	*		0.56	160	100	100	60	130
ET1EMI3S – 250 – 30	30	2.1	3.8	*		0.65	160	100	100	60	130
ET1EMI3S – 250 – 40	40	2.4	4.7	*		0.98	250	150	156	100	180
ET1EMI3S – 250 – 50	50	2.9	5.9	*		1.20	250	150	156	100	180
ET1EMI3S – 250 – 60	60	3.3	7.3	*		1.85	250	150	156	100	180
ET1EMI3S – 250 – 80	80	4.7	9.5	*		2.90	250	150	156	100	180
ET1EMI3S – 250 – 100	100	5.9	11.2	*		3.65	250	150	156	100	180

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