



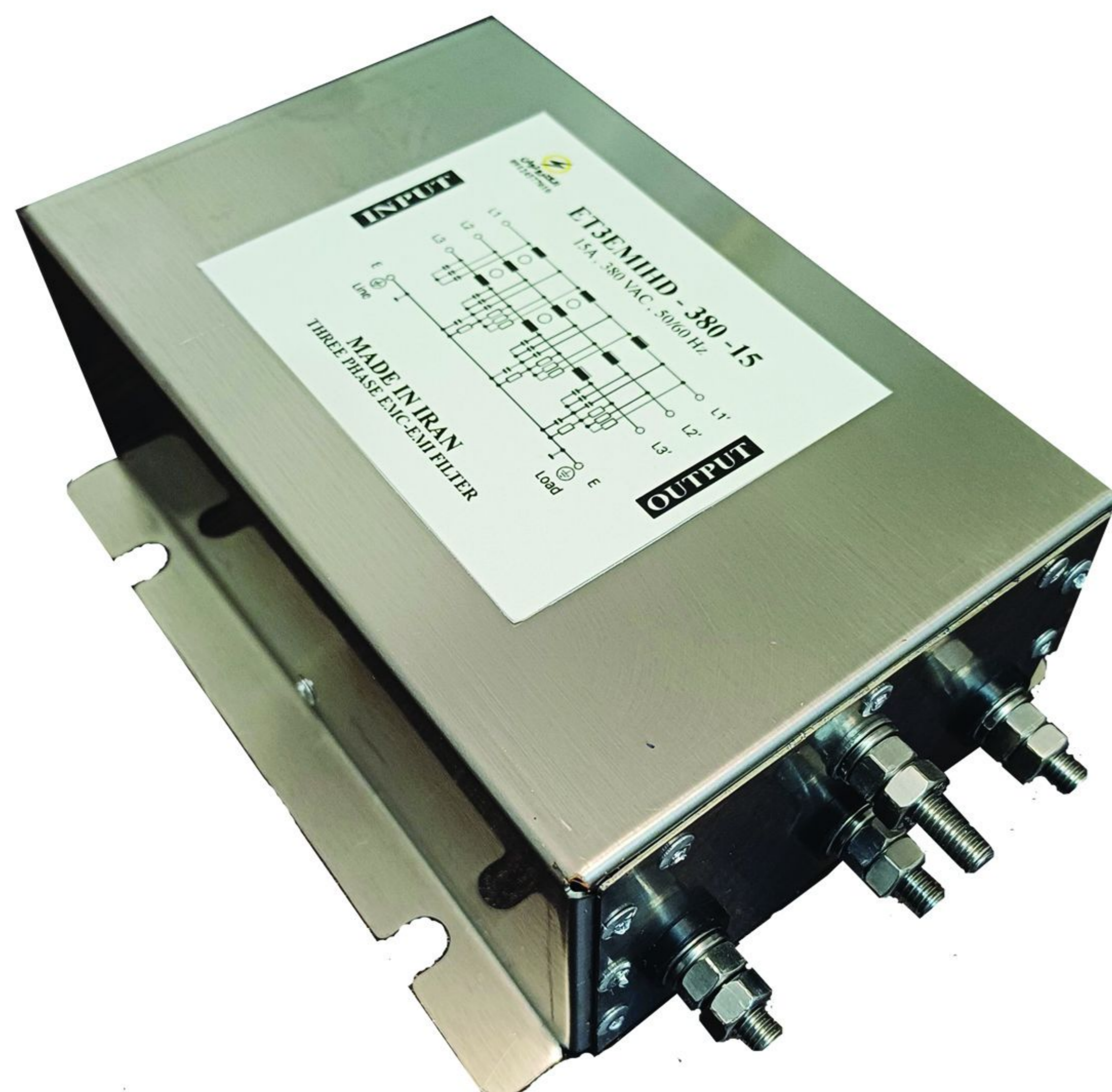
ETCO

HD THREE PHASE EMI -EMC FILTER
NOISE SOLUTION

www.electrotavan.com



ETCO Heavy Duty EMC/EMI Filter



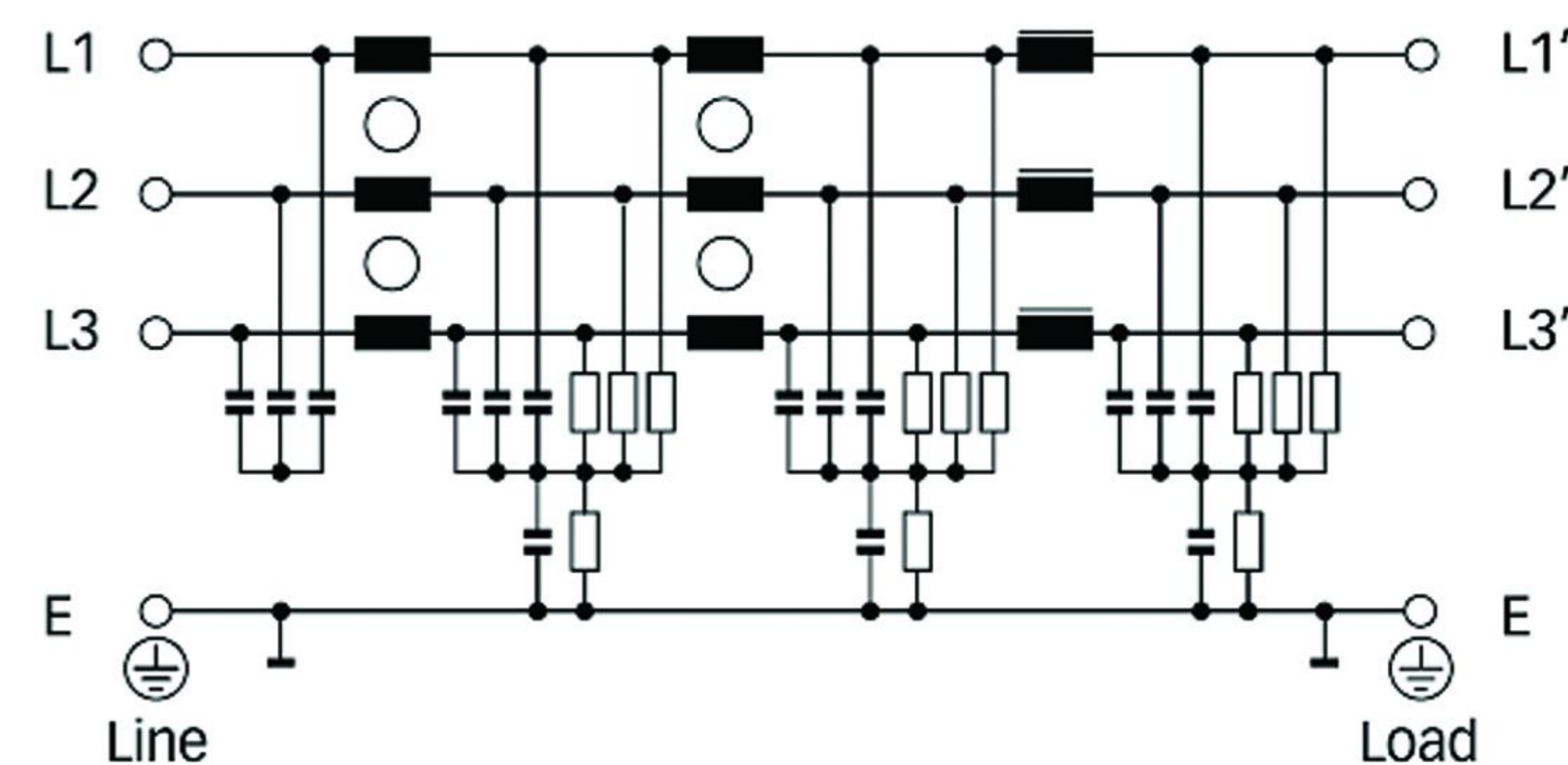
Technical specifications

| | |
|---|----------------------------------|
| Continuous Operating Voltage | 380 – 440 -520 VAC |
| Rated current | 10 – 1200 A |
| Operating Frequency | 50/60 Hz |
| Best Noise Frequency Attenuation range | 100 KHz to 50 MHz |
| Protection category (IP) | IP20 |
| Temperature range | -20 to +85 C |
| Overload capability | 1.2x rated current for 1 minute, |
| Transient Voltage (T.V) | 2000 V |
| Design corresponding to | UL 1283 , CSA 22.2 No.8 1986 |
| MTBF @ 45C | 150,000 Hours |

Applications

- High Power motor drives , inverters and converters
- Industrial three phase systems
- Large UPSs
- Machinery and Mining equipments
- Wind turbines
- Photovoltaic systems with galvanic isolation

Electrical schematic

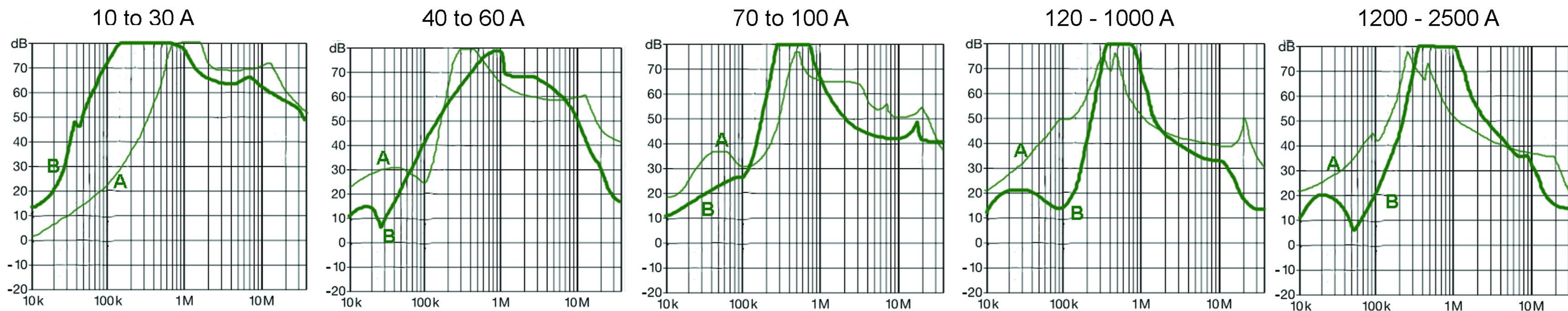


Features and benefits

- Suitable for environments with a very high level of noise pollution
- Suitable for intensive noise variation with high frequency
- Using two stages for noise attenuation
- 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
- Compact design and lowest dimensions
- Quality guarantee and after-sales service

Filter Attenuation performance

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

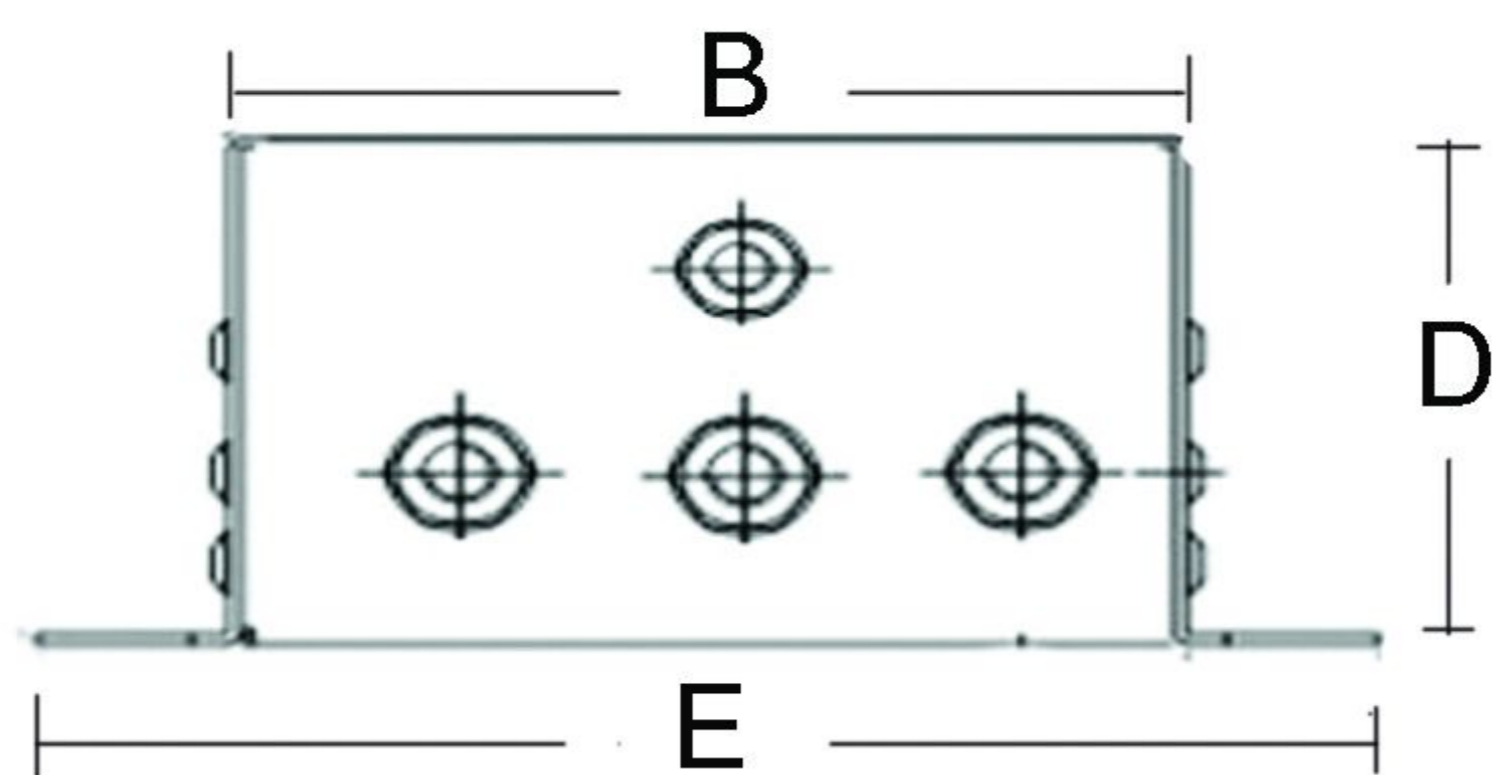
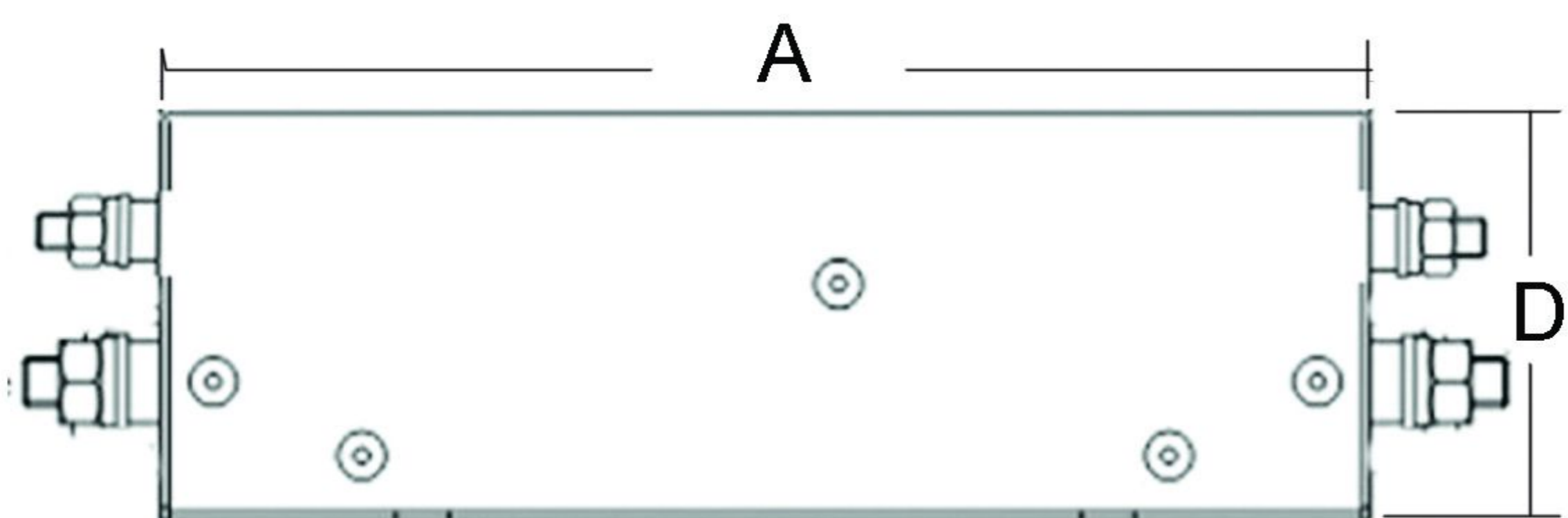
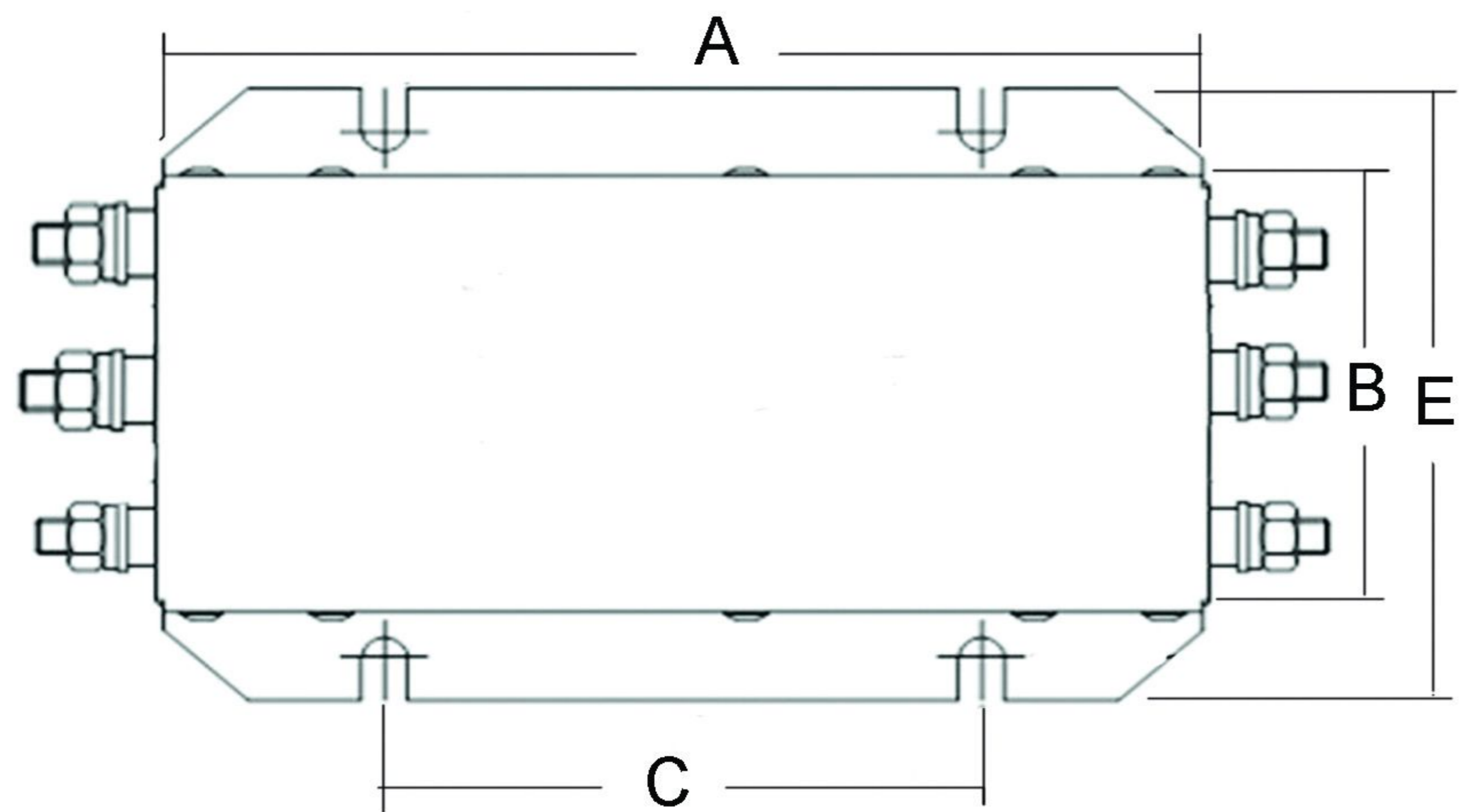


Filter Attenuation range

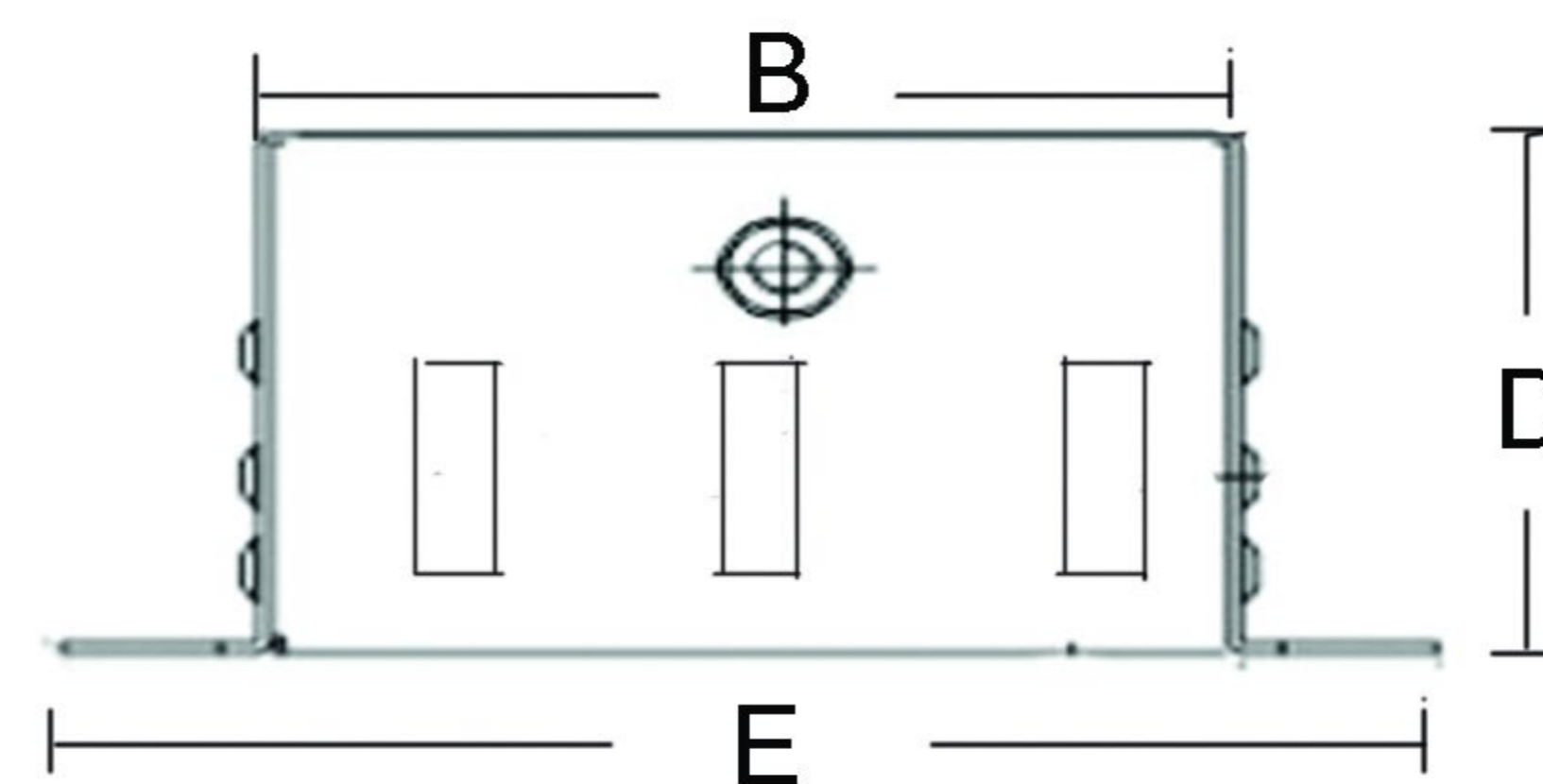
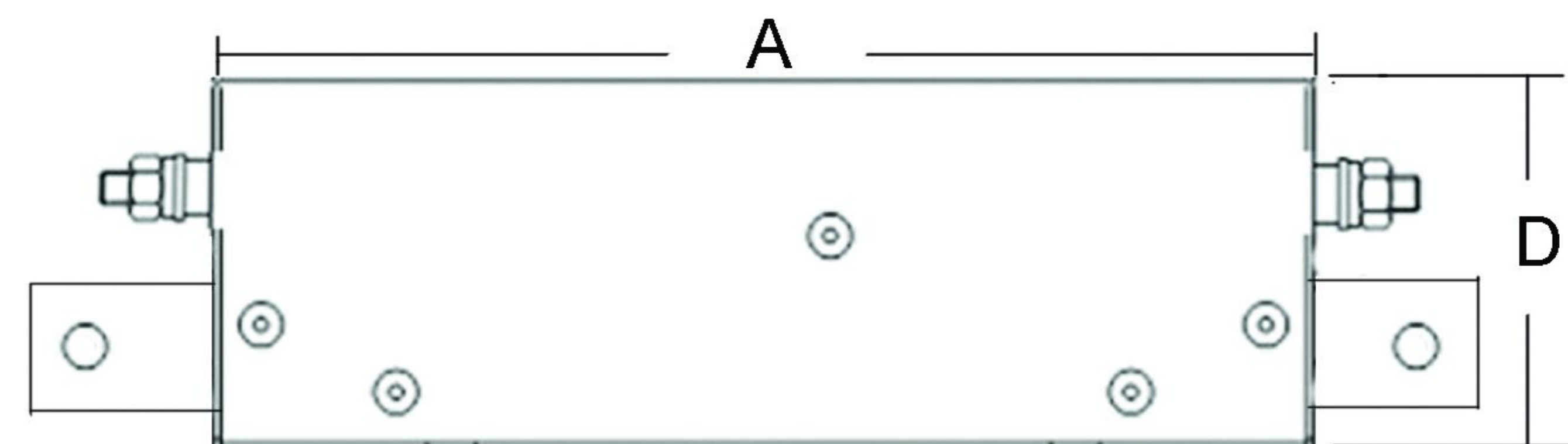
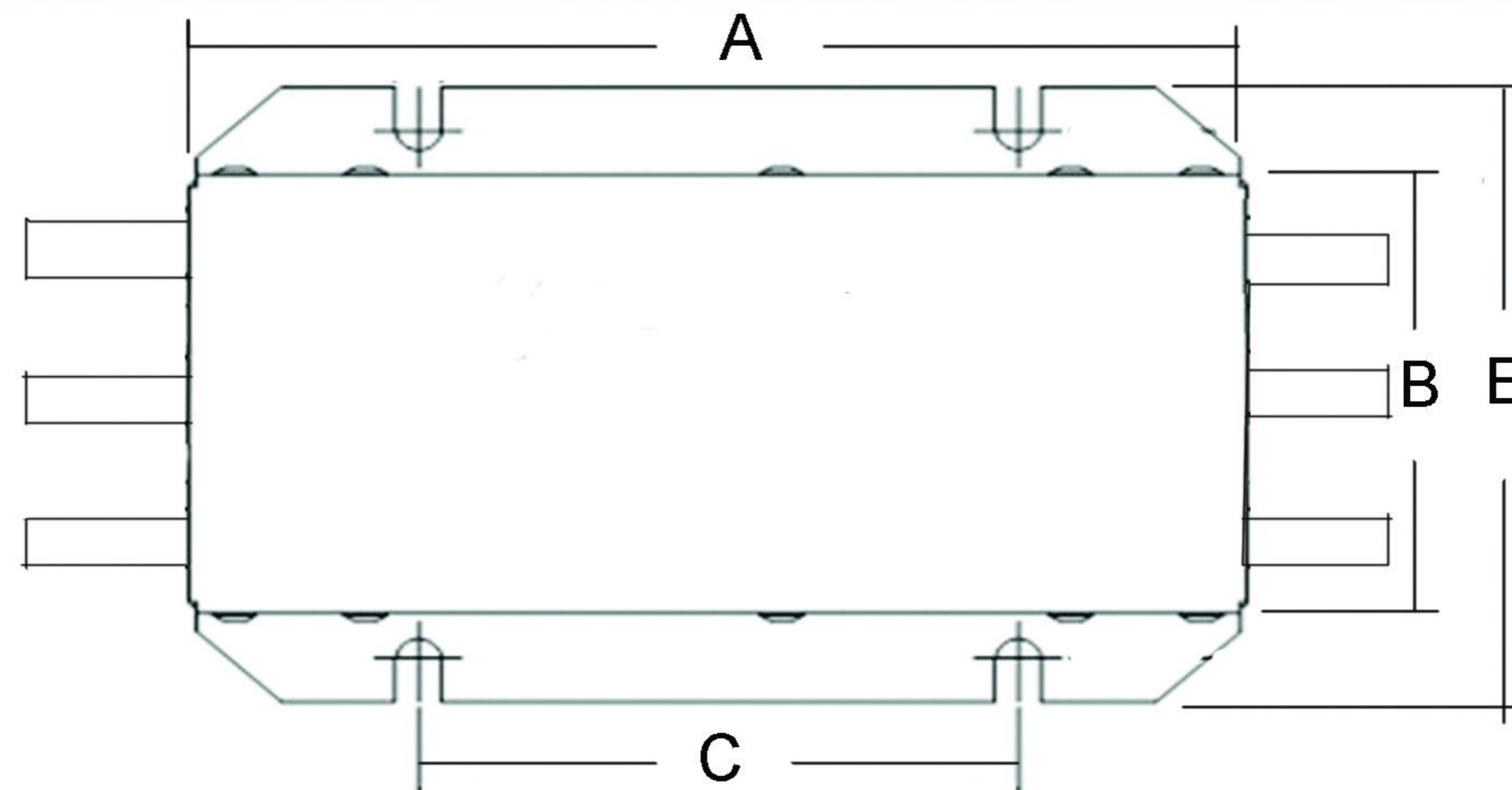


Mechanical Data



10 - 200 A Filters



250 - 1200 A Filters



Filter selection table

| Model | Rated current @ 40C (A) | Typical drive power rating (KW) | Leakage current @380 VAC /50 Hz (mA) | Power loss @40C (W) | Connection type | | Weight (Kg) | Dimensions | | | | |
|-----------------------|----------------------------|---------------------------------------|---|---------------------------|---|---|----------------|------------|-----------|-----------|-----------|-----------|
| | | | | |  |  | | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
| ET3EMIHD – 380 – 10 | 10 | 1 - 5.5 | 3.4 | 2.1 | * | | 0.90 | 160 | 100 | 100 | 60 | 130 |
| ET3EMIHD – 380 – 15 | 15 | 5.5 | 3.4 | 2.6 | * | | 0.98 | 160 | 100 | 100 | 60 | 130 |
| ET3EMIHD – 380 – 20 | 20 | 11 | 3.7 | 2.9 | * | | 1.05 | 160 | 100 | 100 | 60 | 130 |
| ET3EMIHD – 380 – 25 | 25 | 12.5 | 3.9 | 3.5 | * | | 1.12 | 160 | 100 | 100 | 60 | 130 |
| ET3EMIHD – 380 – 30 | 30 | 15 | 3.9 | 4.1 | * | | 1.20 | 160 | 100 | 100 | 60 | 130 |
| ET3EMIHD – 380 – 40 | 40 | 20 | 3.9 | 5.0 | * | | 1.35 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 50 | 50 | 25 | 3.9 | 5.7 | * | | 1.88 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 60 | 60 | 37 | 3.9 | 6.3 | * | | 2.25 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 80 | 80 | 37 | 3.8 | 7.7 | * | | 3.30 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 100 | 100 | 45 | 4.0 | 9.9 | * | | 3.90 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 120 | 120 | 55 | 7.8 | 13.8 | * | | 5.85 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 150 | 150 | 75 | 7.8 | 15.9 | * | | 9.45 | 250 | 150 | 156 | 100 | 180 |
| ET3EMIHD – 380 – 200 | 200 | 110 | 7.8 | 24.0 | | * | 9.60 | 250 | 200 | 156 | 150 | 230 |
| ET3EMIHD – 380 – 300 | 300 | 132 | 7.9 | 29.7 | | * | 10.65 | 250 | 200 | 156 | 150 | 230 |
| ET3EMIHD – 380 – 400 | 400 | 220 | 7.9 | 33.6 | | * | 10.65 | 350 | 250 | 218 | 200 | 280 |
| ET3EMIHD – 380 – 600 | 600 | 315 | 7.8 | 45.5 | | * | 11.70 | 350 | 250 | 218 | 200 | 280 |
| ET3EMIHD – 380 – 800 | 800 | 400 | 7.8 | 56.6 | | * | 21.45 | 350 | 250 | 218 | 200 | 280 |
| ET3EMIHD – 380 – 1000 | 1000 | 560 | 7.8 | 75.3 | | * | 21.75 | 350 | 250 | 218 | 200 | 280 |
| ET3EMIHD – 380 – 1200 | 1200 | 600 | 8.1 | 90.1 | | * | 22.65 | 350 | 250 | 218 | 200 | 280 |

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