**DATA SHEET**

3-Phase Filters FN258

**Book-style EMC/RFI Filter for Inverters and Power Drive Systems**

- Industry standard EMC solution for three-phase PDS filtering
- Slim space-saving book-style housing
- Solid safety connector blocks or optional wire output connections
- Excellent attenuation performance
- HV versions for up to 690 VAC
- HVIT versions for IT distribution networks
- P/L versions with low leakage current

**Performance indicators**

<table>
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<tr>
<th>Attenuation performance</th>
<th>standard</th>
<th>high</th>
<th>very high</th>
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<th>400</th>
<th>600</th>
<th>800</th>
<th>&gt;1000</th>
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</table>

**Technical specifications**

- **Maximum continuous operating voltage**
  - 3x 520/300 VAC (FN258, FN258L, FN258P)
  - 3x 760/440 VAC (FN258HV, FN258HVIT)

- **Rated currents**
  - 7 to 250 A @ 50°C (FN258, FN258L, FN258P)
  - 7 to 130 A @ 50°C (FN258HV, FN258HVIT)

- **Operating frequency**
  - DC to 60 Hz

- **High potential test voltage**
  - P –> E 2650 VDC for 2 sec (FN258)
  - P –> E 2300 VDC for 2 sec (FN258L)
  - P –> E 3000 VDC for 2 sec (FN258P)
  - P –> E 3200 VDC for 2 sec (FN258HV and FN258HVIT)
  - P –> P 2100 VDC for 2 sec (FN258HV and FN258HVIT)

- **Protection category**
  - IP 20 acc. to IEC 60529, Nema I

- **Temperature range (operation and storage)**
  - -25°C to +100°C (derating applies above 50°C)

- **Climatic class**
  - 25/100/21 acc. to IEC 60664-1

- **Overvoltage category**
  - II acc. IEC 60664-1

- **Pollution degree**
  - 3 acc. IEC 60664-1

- **Overload capability**
  - 4x rated current for 1 sec, once per hour
  - 1.5x rated current for 1 minute, once per hour

- **Design corresponding to**
  - UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939

- **MTBF @ 50°C/400 V (MIL-HB-217F)**
  - 220,000 hours
  - > 220,000 hours

- **Flammability according to**
  - UL 94 V-2 or better

**Approvals & Compliances**

- **RoHS**
- **UL/C T S A: 600VAC for FN258 up to 180 A (ex. -180-07); ENEC: 690VAC**

**Features and benefits**

- FN258 range of filters provides state-of-the-art EMI attenuation based on an innovative multi-stage filter topology. They help to ensure compliance with Class A or even Class B limits
- The slim book-style shape allows a convenient and space-saving installation next to inverters and motor drives
- With 480 VAC rating and filter modules from 7 to 250 A, FN258 are ready for the most diverse applications worldwide
- FN258HV filters up to 130 A are designed for 690 VAC distribution networks
- FN258HVIT filters up to 130 A meet the special requirements for the application in industrial 690 VAC IT distribution networks
- FN258L and FN258P filters help to fulfill tough requirements in respect of leakage current limitation and provide an excellent solution to overcome problems with nuisance tripping of sensitive earth leakage detectors

**Typical applications**

- Three-phase variable speed drives and power drive systems (PDS)
- IT power distribution networks (FN258HVIT)
- Applications comprising energy conversion devices (inverters, converters)
- Process automation equipment
- Three-phase power supplies and UPS
- Applications with low-leakage current requirements (FN258L and FN258P)

**Typical electrical schematic**

![Typical electrical schematic](image-url)
<table>
<thead>
<tr>
<th>Filter*</th>
<th>Rated current @ 50°C (40°C) [A]</th>
<th>Typical drive power rating** [kW]</th>
<th>Leakage current*** @ 520/760 VAC/50 Hz [mA]</th>
<th>Power loss @ 25°C/50 Hz [W]</th>
<th>Input connections</th>
<th>Output connections</th>
<th>Weight [kg]</th>
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* To compile a complete part number, please replace the -.. with the required output connection style.
** Calculated at rated current, 440 VAC (FN258)/690 VAC (FN258HV) and cos phi=0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.
*** Standardized calculated leakage current acc. IEC60939 under normal operating conditions (FN258 at 520 VAC and FN258HV at 760 VAC).
Typical filter attenuation
Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym

7 to 30 A types
42 to 100 A types
130 A types
180 and 250 A types

Note: typical attenuation performance of FN258 standard filters. The behavior of FN258HV, FN258HVIT, FN258P and FN258L may be slightly different.

Current derating for higher ambient temperatures

Note: in favour of a better readability, connectors and earth studs are not shown in the horizontal projection.

Mechanical data

7 to 55 A types (-07)
7 to 130 A types (-29, -33, -34, -35)
180 and 250 A types (-07)
180 and 250 A types (-40)

Note: in favour of a better readability, connectors and earth studs are not shown in the horizontal projection.
**Dimensions**

<table>
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<th>7 A</th>
<th>16 A</th>
<th>30 A</th>
<th>42 A</th>
<th>55 A</th>
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* Filters with output wire connections (-07) only.
** Earth screw torque: M5 2.0-2.2 Nm; M6 3.5-4.0 Nm; M8 8.0-9.0 Nm; M10 15-17 Nm

All dimensions in mm; 1 inch ≈ 25.4 mm
Tolerances according: ISO 2768-m/EN 22768-m

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**Filter input/output connector cross sections**

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<td>AWG type wire</td>
<td>AWG 24-10</td>
<td>AWG 22-6</td>
<td>AWG 6-2</td>
<td>AWG 6-1/0</td>
<td>AWG 0-4/0</td>
</tr>
<tr>
<td>Recommended torque</td>
<td>0.6-0.8 Nm</td>
<td>1.5-1.8 Nm</td>
<td>4.0-4.5 Nm</td>
<td>7-8 Nm</td>
<td>17-20 Nm</td>
</tr>
</tbody>
</table>

Terminal blocks certified acc. to UL1059 for factory wiring. Max, temperature 100°C

Please visit www.schaffner.com to find more details on filter connectors.
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