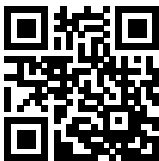


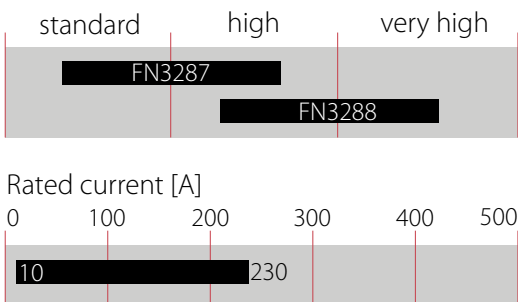
Smallest book-style EMC/RFI Filter for Inverter and Power Drive Systems



- Standard and high performance EMC solution
- Footprint space-saving book-style housing
- Solid safety connector blocks
- Standard attenuation performance FN3287
- High attenuation performance FN3288
- HV versions for 690 VAC applications
- HVIT- and IT versions for IT distribution networks
- Versions with low leakage current
- SCCR 100 kA



Performance indicators



Technical Specifications

| | |
|---|--|
| Maximum continuous operating voltage | 3x530/305 VAC (FN3287, FN3288) 3x530 VAC (FN3288IT) 3x760/440 VAC (FN3288HV) 3x760 VAC (FN3288HVIT) |
| Nominal operating voltage | 480 VAC (FN3287, FN3288, FN3288IT) 690 VAC (FN3288HV, FN3288HVIT) |
| Rated currents | 10 to 230 A 10 to 230 A @ 50°C |
| Overload capability | 6x rated current for 1 sec, once per hour 1.5x rated current for 1 minute, once per hour |
| Operating frequency | DC to 60 Hz |
| High potential test voltage | P -> E 2260 VDC for 2 s (FN3287, FN3288) P -> E 2900 VDC for 2 s (FN3288IT) P -> P 2280 VDC for 2 s (FN3287, FN3288, FN3288IT) P -> E 2650 VDC for 2 s (FN3288HV) P -> E 3530 VDC for 2 s (FN3288HVIT) P -> P 3270 VDC for 2 s (FN3288HV) |
| Overvoltage category | III acc. IEC 60664-1 |
| Pollution degree | 3 acc. IEC 60664-1 |
| Temperature range (operation and storage) | -40°C to +100°C (with current derating >50°C) |
| Climatic category | 40/100/21 acc. to IEC 60068-1 |
| Protection category | IP 20 acc. to IEC 60529 |
| Flammability corresponding to | UL 94 V-0 |
| Vibration and shock | 3M4 (operation) 2M2 (transport) acc. to IEC 60721-3-3 IEC 60721-3-2 |
| Design corresponding to | UL 60939-3, IEC 60939-3 |
| SCCR** | 100 kA acc. to UL508 - high fault current |
| Compliance with insulation requirement | > 1MΩ acc. to IEC 60204-1 |
| MTBF (Mil-HB-217F) | >200,000 h @ 50°C/480 V |

** SCCR (High Fault Current acc UL508): 100 kA, with overcurrent protection of J-Type current limiting fuses. Fuse rating shall not exceed 150% of filter current rating.

Approvals & Compliances



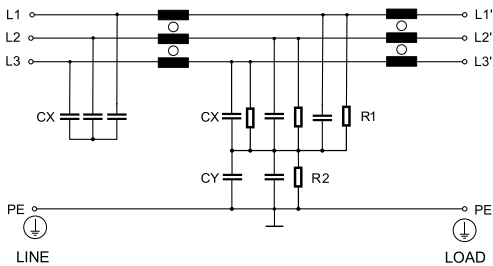
Features and Benefits

- FN3287 and FN3288 series of filters provides state-of-the-art EMI attenuation based on an innovative filter topology. They help to ensure compliance with Class C2 or even C1 limits.
- The slim book-style shape allows a convenient and space-saving installation next to inverters, converters or motor drives.
- The compact FN3287 and FN3288 filter from 10 to 230A are designed for the most diverse applications worldwide, including machinery and machine tools.
- FN3288HV filters up to 230 A are applicable for 690 VAC distribution networks.
- FN 3288IT and FN 3288HVIT filters up to 230 A meet the special requirements for IT distribution networks.
- Low leakage current filter versions help to fulfill tough requirements (e.g. 0.1 mA) in respect of leakage current limitation.

Typical Applications

- Three-phase variable speed drives and power drive systems (PDS)
- Machine tool and machinery equipment
- IT power distribution networks (FN3288IT and FN3288 HVIT)
- General energy conversion devices (inverters, converters)
- Process automation equipment
- Three-phase power supplies
- Low-leakage current requirements





































Typical electrical schematic



Note: IT and HVIT versions without discharge resistor

to ground.

Filter Selection Table

| Filter | Buy | Rated current @ 50°C (40°C) [A] | Typical drive Power rating** [kW] | Leakage current*** | | | | | | | | | Power loss @ 25°C [W] | Terminal Type | Weight [kg] | Frame | |
|-------------------------------|---|---|--|--------------------|-----|-----|-----|-----|-----|-----|-----|------|------------------------------------|----------------------|--------------------|-------|---|
| | | | | @ 530 VAC/50 Hz | | | | | | | | | | | | | |
| | | | | [mA] | | | | | | | | | | | | | |
| Capacitor option *C.. | | | | C35 | C34 | C33 | C28 | C27 | C26 | C21 | C17 | C13 | | | | | |
| Standard performance: | | | | | | | | | | | | | | | | | |
| FN3287-10-44-C..-R65 |  | 10 (11) | 6 | | | | 3.7 | | 2.2 | 0.4 | | | | 7.5 | -44 | 0.7 | Q |
| FN3287-16-44-C..-R65 |  | 16 (17) | 9 | | | 4.3 | | | 2.4 | 0.4 | | | | 9.5 | -44 | 0.8 | R |
| FN3287-20-33-C..-R65 |  | 20 (22) | 12 | | | 4.9 | | | 2.5 | 0.4 | | | | 10.0 | -33 | 0.9 | S |
| FN3287-25-33-C..-R65 |  | 25 (27) | 15 | | | 4.9 | | | 2.5 | 0.4 | | | | 11.4 | -33 | 1.0 | S |
| FN3287-40-33-C..-R65 |  | 40 (44) | 24 | | | 4.9 | | | 2.5 | 0.4 | | | | 22.6 | -33 | 1.5 | T |
| FN3287-50-53-C..-R65 |  | 50 (55) | 29 | | | 4.9 | | | 2.5 | 0.4 | | | | 28.5 | -53 | 2.1 | U |
| FN3287-63-53-C..-R65 |  | 63 (69) | 38 | | | 4.9 | | | 2.5 | 0.4 | | | | 36.9 | -53 | 2.2 | U |
| FN3287-80-34-C..-R65 |  | 80 (88) | 47 | | | 5.6 | | | 2.7 | 0.4 | | | | 32.6 | -34 | 3.4 | F |
| FN3287-100-35-C..-R65 |  | 100 (110) | 59 | | | 5.6 | | | 2.7 | 0.4 | | | | 33.0 | -35 | 4.2 | G |
| FN3287-125-35-C..-R65 |  | 125 (137) | 74 | | | 5.6 | | | 2.7 | 0.4 | | | | 37.5 | -35 | 4.6 | G |
| FN3287-160-40-C..-R65 |  | 160 (175) | 94 | | | 5.6 | | | 2.7 | 0.4 | | | | 38.4 | -40 | 6.0 | H |
| FN3287-230-40-C..-R65 |  | 230 (230) | 135 | | | 5.9 | | | 2.7 | 0.4 | | | | 47.6 | -40 | 8.8 | V |
| | | | | | | | | | | | | | | | | | |
| High performance: | | | | | | | | | | | | | | | | | |
| FN3288-10-44-C..-R65 |  | 10 (11) | 6 | | 5.9 | | | | 2.5 | 0.4 | 0.1 | | | 7.1 | -44 | 0.8 | A |
| FN3288-16-44-C..-R65 |  | 16 (17) | 9 | 6.0 | | | | | 2.5 | 0.4 | 0.1 | | | 10.5 | -44 | 1.0 | B |
| FN3288-20-33-C..-R65 |  | 20 (22) | 12 | 6.0 | | | | | 2.5 | 0.4 | 0.1 | | | 10.7 | -33 | 1.2 | C |
| FN3288-25-33-C..-R65 |  | 25 (27) | 15 | 6.0 | | | | | 2.5 | 0.4 | 0.1 | | | 17.8 | -33 | 1.2 | C |
| FN3288-40-33-C..-R65 |  | 40 (44) | 24 | 6.0 | | | | 3.5 | | 0.4 | 0.1 | | | 21.6 | -33 | 1.8 | D |
| FN3288-50-53-C..-R65 |  | 50 (55) | 29 | 6.6 | | | | | 2.6 | 0.4 | 0.1 | | | 32.3 | -53 | 2.5 | E |
| FN3288-63-53-C..-R65 |  | 63 (69) | 38 | 6.6 | | | | | 2.6 | 0.4 | 0.1 | | | 39.3 | -53 | 2.7 | E |
| FN3288-80-34-C..-R65 |  | 80 (88) | 47 | 7.1 | | | | | 2.7 | 0.4 | 0.1 | | | 28.8 | -34 | 4.3 | F |
| FN3288-100-35-C..-R65 |  | 100 (110) | 59 | 7.1 | | | | | 2.7 | 0.4 | 0.1 | | | 36.0 | -35 | 5.1 | G |
| FN3288-125-35-C..-R65 |  | 125 (137) | 74 | 7.1 | | | | | 2.7 | 0.4 | 0.1 | | | 42.2 | -35 | 5.0 | G |
| FN3288-160-40-C..-R65 |  | 160 (175) | 94 | 7.1 | | | | | 2.7 | 0.4 | 0.1 | | | 46.1 | -40 | 6.6 | H |
| FN3288-230-40-C..-R65 |  | 230 (230) | 135 | 7.5 | | | | | 2.7 | 0.4 | 0.1 | | | 47.6 | -40 | 9.3 | V |
| | | | | | | | | | | | | | | | | | |
| HP for IT power networks****: | | | | | | | | | | | | | | | | | |
| FN3288IT-10-44-C..-R60 |  | 10 (11) | 11 | | 5.9 | | | | | | | | | 6.2 | -44 | 1.1 | I |
| FN3288IT-16-44-C..-R60 |  | 16 (17) | 17 | | 5.9 | | | | | | | | | 9.7 | -44 | 1.3 | J |
| FN3288IT-20-33-C..-R60 |  | 20 (22) | 22 | | 5.9 | | | | | | | | | 13.2 | -33 | 1.6 | K |
| FN3288IT-25-33-C..-R60 |  | 25 (27) | 27 | | 5.9 | | | | | | | | | 15.6 | -33 | 1.6 | K |
| FN3288IT-40-33-C..-R60 |  | 40 (44) | 45 | | 5.9 | | | | | | | | | 18.7 | -33 | 2.8 | L |
| FN3288IT-50-53-C..-R60 |  | 50 (55) | 56 | | 6.5 | | | | | | | | | 27.0 | -53 | 2.8 | M |
| FN3288IT-63-53-C..-R60 |  | 63 (69) | 70 | | 6.5 | | | | | | | | | 34.5 | -53 | 2.9 | M |
| FN3288IT-80-34-C..-R60 |  | 80 (88) | 89 | | 7.0 | | | | | | | | | 28.8 | -34 | 4.6 | N |
| FN3288IT-100-35-C..-R60 |  | 100 (110) | 112 | | 7.0 | | | | | | | | | 33.0 | -35 | 5.4 | O |
| FN3288IT-125-35-C..-R60 |  | 125 (137) | 139 | | 7.0 | | | | | | | | | 42.2 | -35 | 5.3 | O |
| FN3288IT-160-40-C..-R60 |  | 160 (175) | 178 | | 7.0 | | | | | | | | | 46.1 | -40 | 6.9 | P |
| FN3288IT-230-40-C..-R60 |  | 230 (230) | 256 | | 7.0 | | | | | | | 0.02 | | 47.6 | -40 | 9.3 | V |

























* Replace C.. with corresponding listed C35, C34, C33, C28, C27, C26, C21, C17 or C13.

** Typical power rating at 400 VAC for FN3287 and FN3288 with cos phi=0.85.The exact value depends upon the efficiency of the drive, the motor and the entire application.

*** Standardized calculated leakage current acc. IEC 60939 under normal operating conditions (FN3287, FN3288 and FN3288 IT at 530 VAC).

****These filters may be operated in IT system as long as the operation conditions and possible short circuit/fault (earth connection of one conductor) occurs between the supply (line side) and the filter. The filters are not designed for short circuit/faults occurring between converter and motor.

Filter Selection Table

| Filter | Buy | Rated current @ 50°C (40°C) | Typical drive Power rating** | Leakage current*** | | | | | | | | | Power loss @ 25°C | Terminal Type | Weight | Frame |
|-------------------------------|---|--------------------------------------|--|--------------------|-----|-----|------|------|-----|-----|-----|-----|-----------------------------|----------------------|--------|-------|
| | | | | @ 760 VAC/50 Hz | | | | | | | | | | | | |
| | | | | [mA] | | | | | | | | | | | | |
| | | | | C44 | C43 | C42 | C36 | C34 | C26 | C25 | C24 | C17 | | | | |
| Capacitor option * C.. | | | | | | | | | | | | | | | | |
| High voltage versions: | | | | | | | | | | | | | | | | |
| FN3288HV-10-44-C...-R65 |  | 10 (11) | 10 | | | | | 8.4 | | | | 1.8 | 7.0 | -44 | 1.2 | I |
| FN3288HV-16-44-C...-R65 |  | 16 (17) | 13 | | | | | 8.4 | | | 2.5 | | 10.8 | -44 | 1.5 | J |
| FN3288HV-20-33-C...-R65 |  | 20 (22) | 17 | | | | 10.9 | | | | 2.5 | | 12.6 | -33 | 1.8 | K |
| FN3288HV-25-33-C...-R65 |  | 25 (27) | 21 | | | | 10.9 | | | | 2.5 | | 14.6 | -33 | 1.9 | K |
| FN3288HV-40-33-C...-R65 |  | 40 (44) | 35 | | | | 12.4 | | | | 2.6 | | 19.2 | -33 | 2.9 | L |
| FN3288HV-50-53-C...-R65 |  | 50 (55) | 43 | | | | 12.4 | | | | 2.6 | | 29.3 | -53 | 3.3 | M |
| FN3288HV-63-53-C...-R65 |  | 63 (69) | 55 | | | | 12.4 | | | | 2.6 | | 38.1 | -53 | 3.5 | M |
| FN3288HV-80-34-C...-R65 |  | 80 (88) | 70 | | | | 12.4 | | | | 2.6 | | 28.8 | -34 | 4.9 | N |
| FN3288HV-100-35-C...-R65 |  | 100 (110) | 100 | | | | 12.4 | | | | 2.6 | | 33.0 | -35 | 5.8 | O |
| FN3288HV-125-35-C...-R65 |  | 125 (137) | 110 | | | | 12.4 | | | | 2.6 | | 42.0 | -35 | 5.9 | O |
| FN3288HV-160-40-C...-R65 |  | 160 (175) | 140 | | | | 12.4 | | | | 2.6 | | 46.1 | -40 | 7.2 | P |
| FN3288HV-230-40-C...-R65 |  | 230 (230) | 200 | | | | 12.4 | | | | 2.6 | 0.1 | 47.6 | -40 | 9.3 | V |
| HV for IT power networks****: | | | | | | | | | | | | | | | | |
| FN3288HVIT-10-44-C...-R60 |  | 10 (11) | 10 | | | 4.6 | | | 3.6 | | | | 7.0 | -44 | 1.2 | I |
| FN3288HVIT-16-44-C...-R60 |  | 16 (17) | 13 | | 6.8 | | | | 3.7 | | | | 10.8 | -44 | 1.5 | J |
| FN3288HVIT-20-33-C...-R60 |  | 20 (22) | 17 | | 6.8 | | | | 3.7 | | | | 12.6 | -33 | 1.8 | K |
| FN3288HVIT-25-33-C...-R60 |  | 25 (27) | 21 | | 6.8 | | | | 3.7 | | | | 14.6 | -33 | 1.9 | K |
| FN3288HVIT-40-33-C...-R60 |  | 40 (44) | 35 | | 6.8 | | | | 3.7 | | | | 19.2 | -33 | 2.9 | L |
| FN3288HVIT-50-53-C...-R60 |  | 50 (55) | 43 | | 6.8 | | | | 3.7 | | | | 29.3 | -53 | 3.3 | M |
| FN3288HVIT-63-53-C...-R60 |  | 63 (69) | 55 | | 6.8 | | | | 3.7 | | | | 38.1 | -53 | 3.5 | M |
| FN3288HVIT-80-34-C...-R60 |  | 80 (88) | 70 | | 6.8 | | | | 3.7 | | | | 28.8 | -34 | 4.9 | N |
| FN3288HVIT-100-35-C...-R60 |  | 100 (110) | 100 | | 6.8 | | | | 3.7 | | | | 33.0 | -35 | 5.8 | O |
| FN3288HVIT-125-35-C...-R60 |  | 125 (137) | 110 | 5.9 | | | | | 3.7 | | | | 42.2 | -35 | 5.9 | O |
| FN3288HVIT-160-40-C...-R60 |  | 160 (175) | 140 | | 6.8 | | | | 3.7 | | | | 46.1 | -40 | 7.2 | P |
| FN3288HVIT-230-40-C...-R60 |  | 230 (230) | 200 | | | | | 12.4 | 3.7 | | | | 47.1 | -40 | 9.3 | V |

* Replace C.. with corresponding listed C44, C43, C42, C36, C34, C26, C25, C24 or C17.

** Typical power rating (400 VAC for FN3287 and FN3288 / 690 VAC for FN3288 HV and FN3288 HVIT) with cos phi=0.85. The exact value depends upon the efficiency of the drive, the motor and the entire application.

*** Standardized calculated leakage current acc. IEC 60939 under normal operating conditions (FN3288 HV and FN3288 HVIT at 760 VAC).

**** These filters may be operated in IT system as long as the operation conditions and possible short circuit/fault (earth connection of one conductor) occurs between the supply (line side) and the filter. The filters are not designed for short circuit/faults occurring between converter and motor.

Distribution Inventory

Up-to-date inventory levels for global distributors is available at <https://products.schaffner.com/stock>

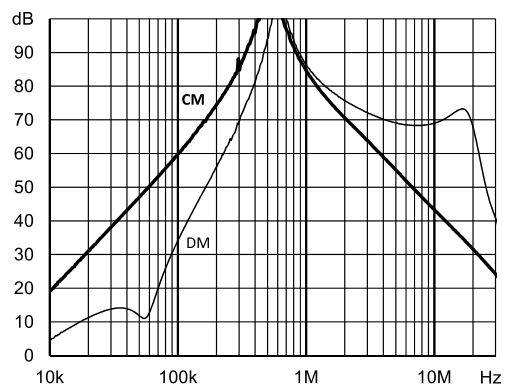


Typical Filter Attenuation – FN3287 Standard Performance

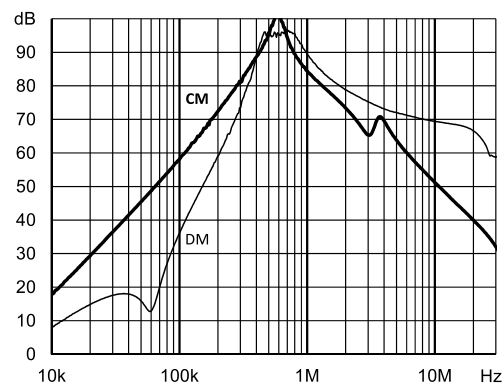
(FN3287 standard performance version with standard leakage current)

Per CISPR 17: symmetrical 50 Ω /50 Ω -> Differential Mode (DM); asymmetrical 50 Ω /50 Ω -> Common Mode (CM)

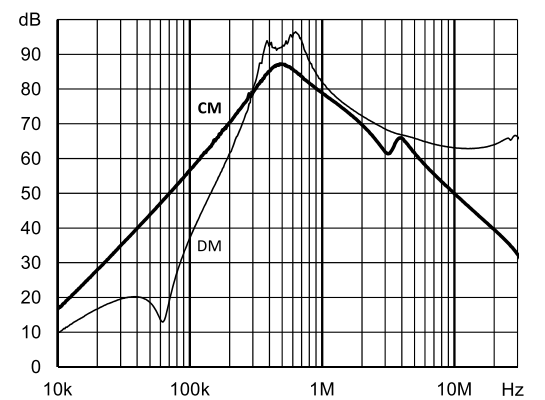
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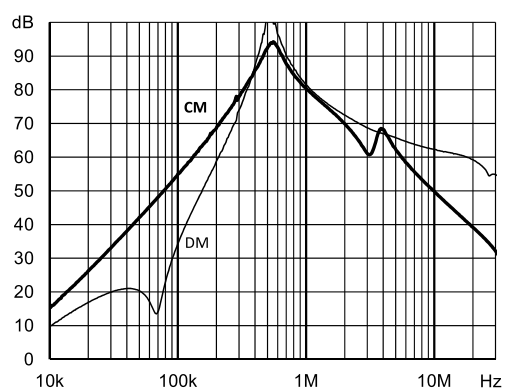
FN3287-16-44-C33-R65



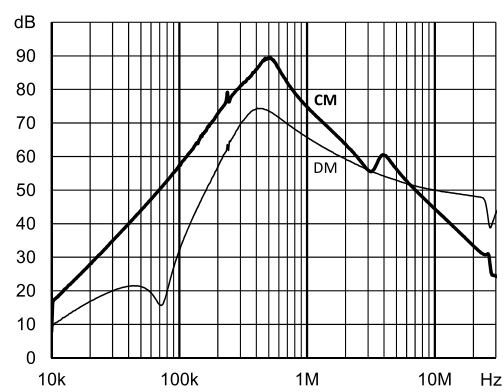
FN3287-20-33-C33-R65



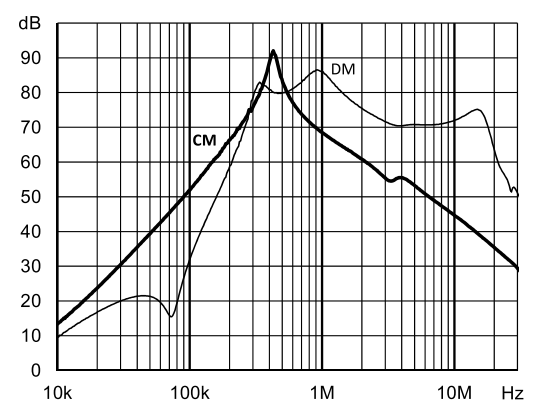
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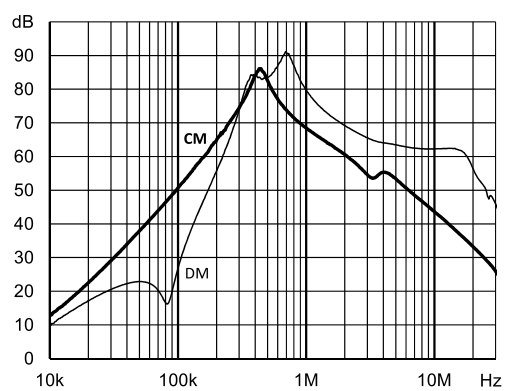
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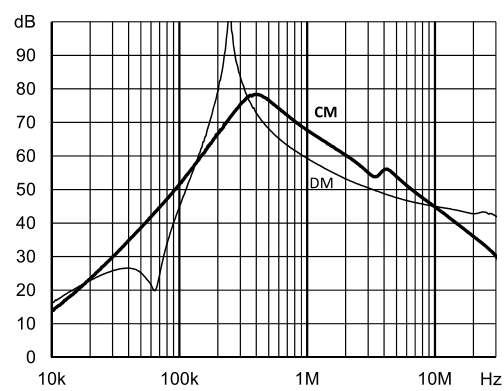
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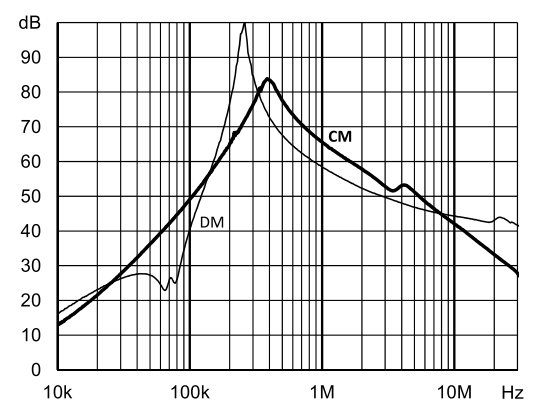
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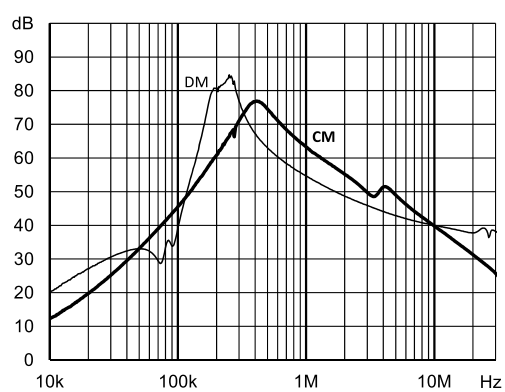
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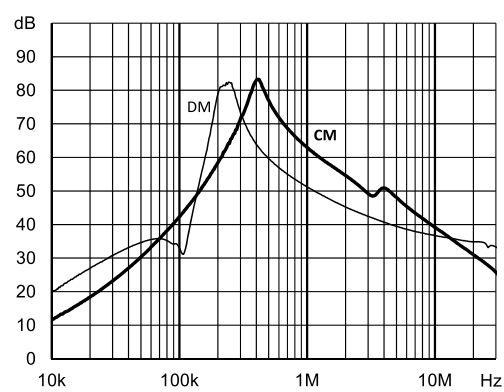
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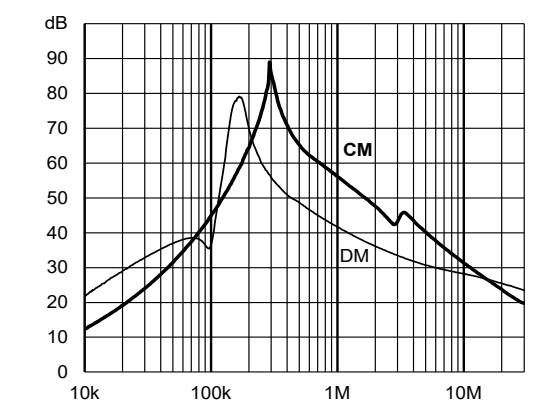
FN3287-125-35-C33-R65



FN3287-160-40-C33-R65



FN3287-230-40-C33-R65

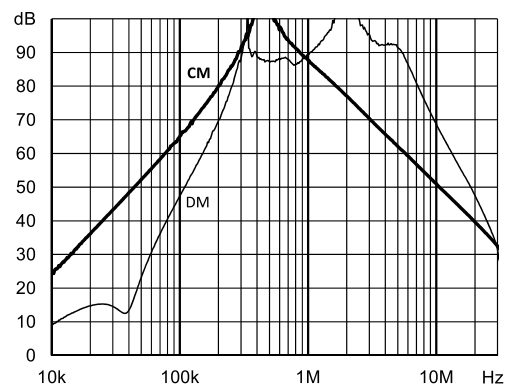


Typical Filter Attenuation – FN3288 High Performance

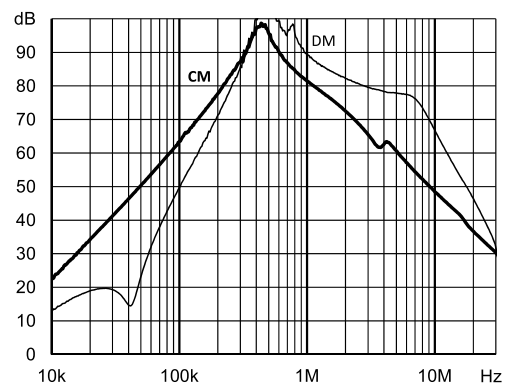
(FN3288 high performance version with standard leakage current)

Per CISPR 17: symmetrical 50 Ω /50 Ω -> Differential Mode (DM); asymmetrical 50 Ω /50 Ω -> Common Mode (CM)

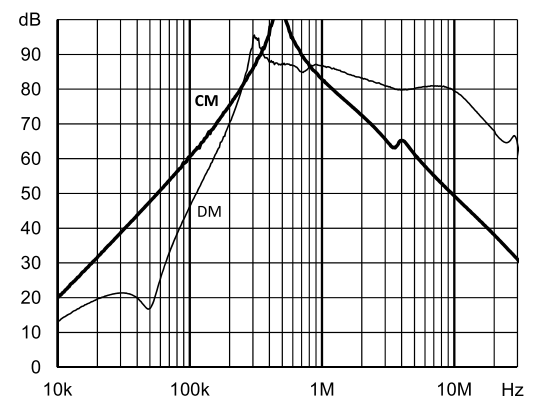
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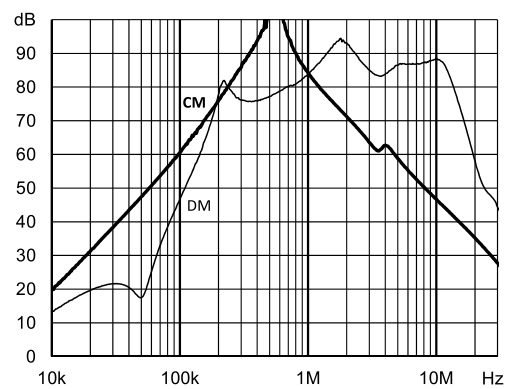
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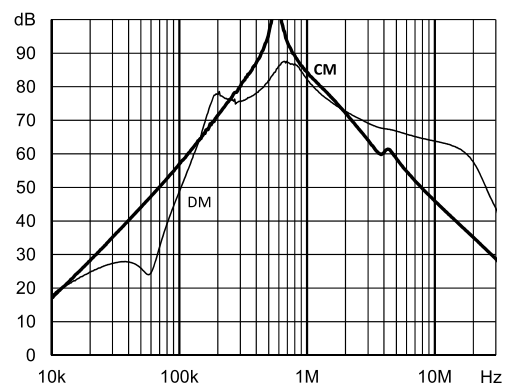
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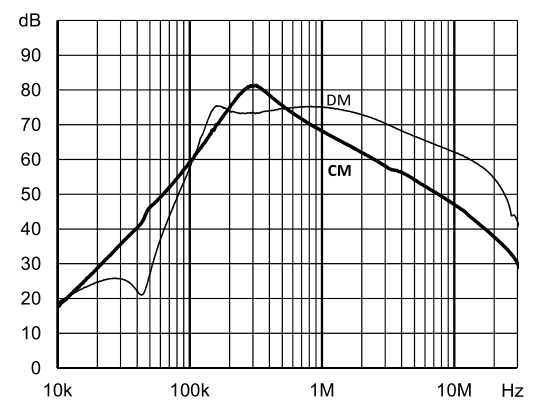
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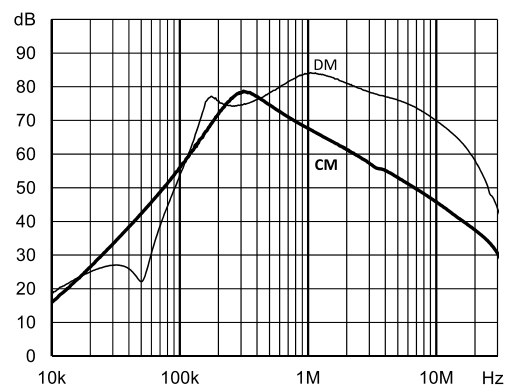
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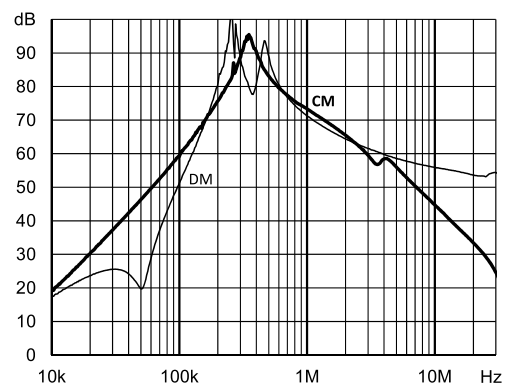
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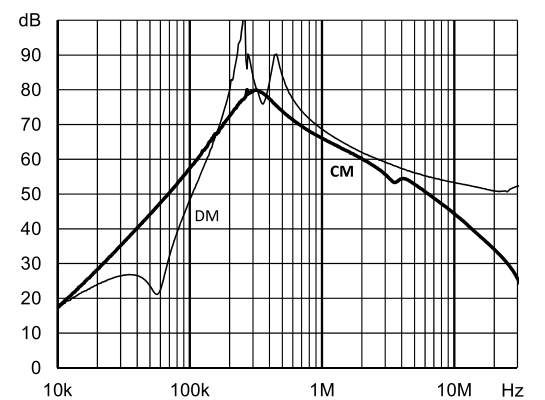
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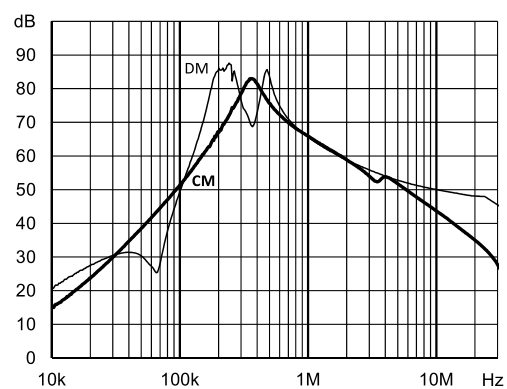
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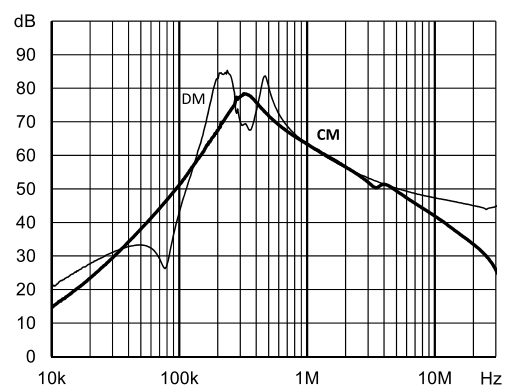
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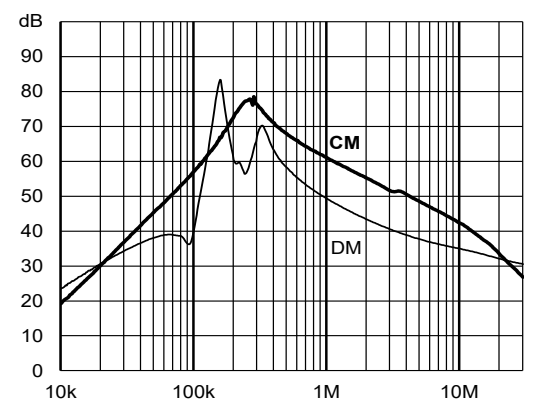
FN3288-125-35-C35-R65



FN3288-160-40-C35-R65

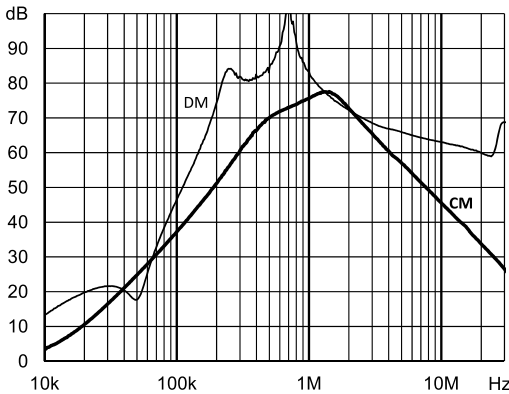


FN3288-230-40-C35-R65

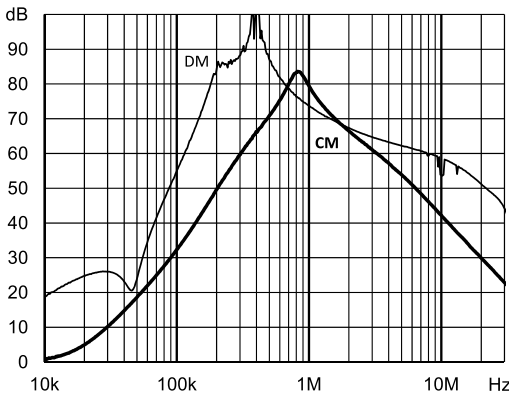


Per CISPR 17: symmetrical 50 Ω /50 Ω -> Differential Mode (DM); asymmetrical 50 Ω /50 Ω -> Common Mode (CM)

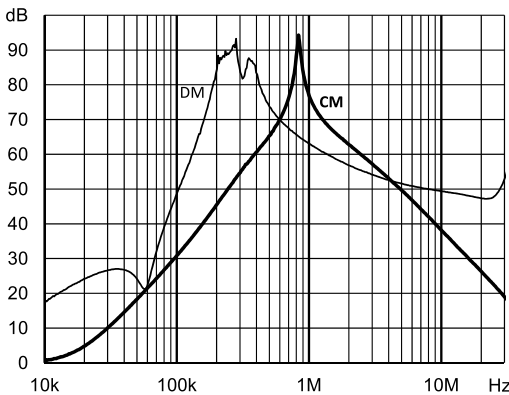
FN3288-20-33-C21-R65



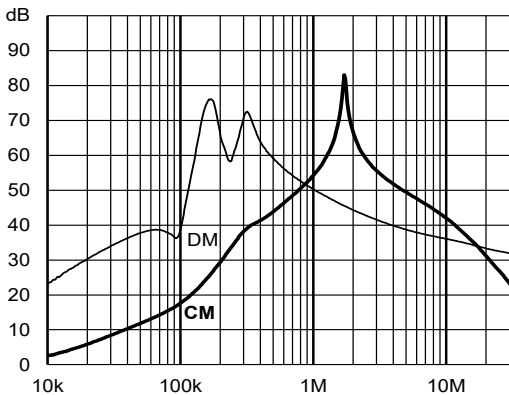
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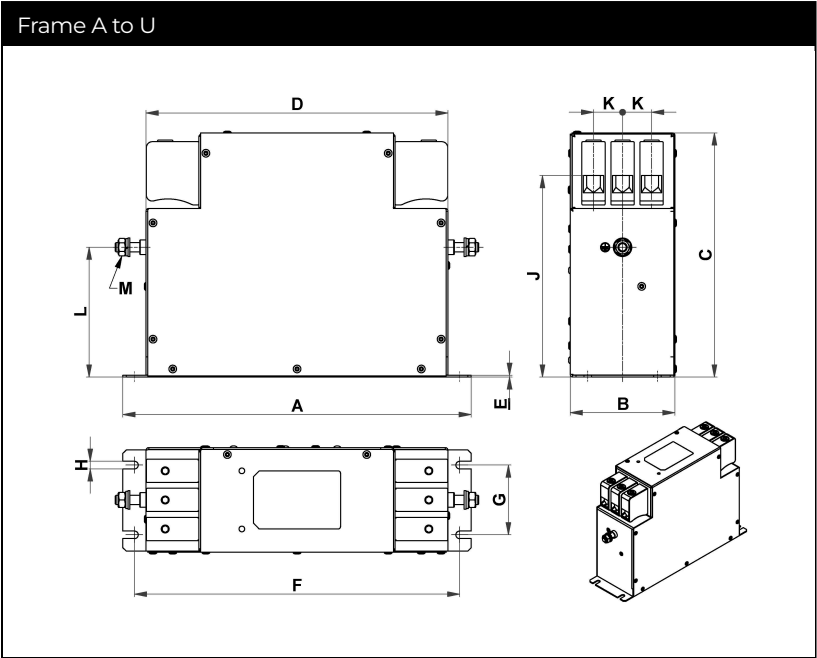
FN3288-100-35-C21-R65



FN3288-230-40-C17-R65



Mechanical Data



Dimensions*

| Frame | A | B | C | D | E | F | G | H | J+/-2 | K | L+/-1 | M** |
|-------|-----|-----|-----|-----|-----|-----|----|-----|-------|------|-------|-----|
| A | 185 | 40 | 120 | 157 | 0.8 | 175 | 20 | 4.5 | 102 | 11 | 76 | M5 |
| B | 195 | 45 | 140 | 164 | 0.8 | 180 | 25 | 5.4 | 122 | 11 | 93 | M5 |
| C | 210 | 45 | 145 | 174 | 0.8 | 195 | 25 | 5.4 | 126 | 13 | 96 | M5 |
| D | 235 | 50 | 168 | 207 | 1.0 | 220 | 30 | 5.4 | 149 | 13 | 115 | M6 |
| E | 255 | 65 | 180 | 226 | 1.0 | 240 | 45 | 5.4 | 156 | 16 | 120 | M6 |
| F | 290 | 80 | 205 | 250 | 1.2 | 270 | 50 | 6.5 | 172 | 22 | 110 | M6 |
| G | 300 | 90 | 210 | 260 | 1.5 | 280 | 60 | 6.5 | 173 | 25 | 112 | M8 |
| H | 310 | 100 | 225 | 270 | 1.5 | 290 | 70 | 6.5 | 183 | 28 | 110 | M10 |
| I | 230 | 50 | 132 | 203 | 0.8 | 220 | 30 | 4.5 | 114 | 12.5 | 88 | M5 |
| J | 230 | 55 | 159 | 198 | 0.8 | 215 | 35 | 5.4 | 141 | 13 | 112 | M5 |
| K | 245 | 55 | 167 | 212 | 0.8 | 230 | 35 | 5.4 | 148 | 13 | 118 | M5 |
| L | 265 | 60 | 191 | 237 | 1.0 | 250 | 40 | 5.4 | 172 | 13 | 135 | M6 |
| M | 265 | 70 | 194 | 237 | 1.0 | 250 | 50 | 5.4 | 170 | 16 | 133 | M6 |
| N | 310 | 95 | 220 | 270 | 1.2 | 290 | 65 | 6.5 | 187 | 22 | 125 | M6 |
| O | 320 | 95 | 230 | 280 | 1.5 | 300 | 65 | 6.5 | 192 | 25 | 127 | M8 |
| P | 330 | 100 | 240 | 290 | 1.5 | 310 | 70 | 6.5 | 198 | 30 | 127 | M10 |
| Q | 180 | 40 | 112 | 153 | 0.8 | 170 | 20 | 4.5 | 94 | 11 | 68 | M5 |
| R | 200 | 45 | 120 | 170 | 0.8 | 185 | 25 | 5.4 | 102 | 11 | 76 | M5 |
| S | 205 | 45 | 132 | 173 | 0.8 | 190 | 25 | 5.4 | 113 | 13 | 83 | M5 |
| T | 215 | 50 | 147 | 185 | 1.0 | 200 | 30 | 5.4 | 128 | 13 | 95 | M6 |
| U | 220 | 65 | 180 | 186 | 1.0 | 205 | 45 | 5.4 | 156 | 16 | 120 | M6 |
| V | 350 | 105 | 240 | 310 | 1.5 | 330 | 70 | 6.5 | 190 | 30.5 | 125 | M10 |

* All dimensions in mm. For dimensions without stated tolerances: ISO 2768-m/EN 22768-m

** 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

Filter Input/Output Connector Cross Sections

| | -44 | -33 | -53 | -34 | -35 | -40 |
|--------------------|------------------------|------------------------|------------------------|----------------------|-----------------------|-----------------------|
| | | | | | | |
| Solid wire | 0.5-10 mm ² | 0.5-16 mm ² | 0.5-16 mm ² | 6-35 mm ² | 10-50 mm ² | 25-95 mm ² |
| Flex wire | 0.5-6 mm ² | 0.5-10 mm ² | 0.5-16 mm ² | 6-25 mm ² | 16-50 mm ² | 25-95 mm ² |
| Flex wire AWG | AWG 20-8 | AWG 22-6 | AWG 20-4 | AWG 6-2 | AWG 6-1/0 | AWG 0-4/0 |
| Recommended torque | 1.0-1.2 Nm | 1.5-1.8 Nm | 2.0-2.3 Nm | 4.0-4.5 Nm | 7.0-8.0 Nm | 17-20 Nm |

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

Accessories

Surge Protection Devices



SPD with a fail safe function to prevent short-circuit (separation of circuit and element is visually confirmable)

Compliance with IEC 61643-1 that meets the new JIS standards

Against indirect lightning surge for single phase / three phase power supplies Quick response for surge

Impulse current capacity 8/20 μ s-5,000A

Impulse test category: Class II (Type II)

Every pathway consists of same elements. Between line and line/between lines and ground can protect as the same level.

[Technical Data Sheet >](#)

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