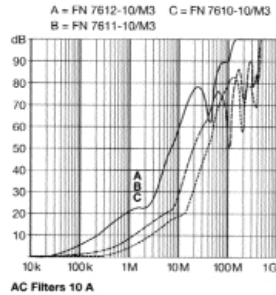


Installation Filters — continued

Feed Through Filters
FN7600 Series



AC Filters 10 A

- Range of ac and dc capacitors
- Standard and high performance options
- EN133200 and EN132400 approved
- 5kV pulse test capability for ac filters and 2.5kV for dc filters

| | |
|---|--|
| AC Specification | DC Specification |
| Voltage rating 250V ac @ 50/60Hz (EN132400) | Voltage rating 130V dc or 130V @ 50/60Hz |
| 300V ac @ 50/60Hz (other applications) | Test voltage 1420V dc for 2 secs |
| Test voltage 3000V dc for 2 secs | Capacitor class Y4 |

| | |
|--|--|
| Capacitor class Y2 | dc Kit includes one each of the following: |
| ac Kit includes one each of the following: | |
| FN7610-10/M3 2 x 4.7nF 10A | FN7660-10/M3 2 x 10nF 10A |
| FN7611-16/M4 2 x 22nF 16A | FN7661-16/M4 2 x 100nF 16A |
| FN7612-32/M4 2 x 100nF 32A | FN7661-32/M4 2 x 100nF 32A |
| FN7612-63/M6 2 x 470nF 63A | FN7661-63/M6 2 x 470nF 63A |
| FN7611-100/M8 2 x 470nF 100A | FN7661-100/M8 2 x 1µF 100AFN7660- |
| FN7610-200/M10 2 x 100nF 200A | 200/M10 2 x 470nF 200A |

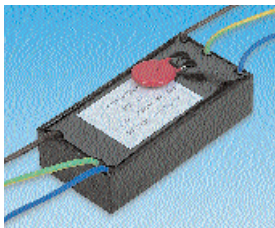
Note: Fourth numeral in Mfrs. List No. indicates performance
0 = Standard, 1 = High and 2 = Very high
M number indicates the metric termination size

| Current Rating | Capacitance (2 x nF) | Inductance (nH) | Leakage Current (mA) | Resistance L (excl. terms) (mΩ) | Dimensions (mm) | Mfrs. List No. | Order Code |
|-----------------|----------------------|-----------------|----------------------|---------------------------------|-----------------|----------------|------------|
| ac range | | | | | | | |
| 10A | 47 | 210 | 8.85 | 9 | 99 20 | FN7612-10/M3 | 326-5614 |
| 32A | 100 | 250 | 18.8 | 6 | 101 25 | FN7612-32/M4 | 326-5626 |
| 63A | 470 | 330 | 88.5 | 3 | 118 54 | FN7612-63/M6 | 326-5638 |
| dc range | | | | | | | |
| 10A | 100 | 140 | - | 8 | 89 20 | FN7661-10/M3 | 326-5640 |
| 16A | 100 | 140 | - | 5 | 94 20 | FN7661-16/M4 | 326-5651 |
| 32A | 100 | 140 | - | 5 | 94 20 | FN7661-32/M4 | 326-5663 |
| 63A | 470 | 180 | - | 3 | 105 32 | FN7661-63/M6 | 326-5675 |
| Kits | | | | | | | |
| dc | | | | | | FN766X | 326-5717 |
| ac | | | | | | FN761X | 326-5705 |

FIL304

| Rating | Order Code | 1+ | 10+ | 25+ | 50+ |
|-----------------|------------|----|-----|-----|-----|
| ac range | | | | | |
| 10A | 326-5614 | | | | |
| 32A | 326-5626 | | | | |
| 63A | 326-5638 | | | | |
| dc range | | | | | |
| 10A | 326-5640 | | | | |
| 16A | 326-5651 | | | | |
| 32A | 326-5663 | | | | |
| 63A | 326-5675 | | | | |
| Kits | | | | | |
| dc | 326-5717 | 1+ | 5+ | 10+ | |
| ac | 326-5705 | | | | |

Filter Module – 13A



- Encapsulated filter module incorporating earth line choke, varistor and bleed resistor
- M4 6 threaded insert in centre of base for fixing.

L = 100, W = 50, H = 25

| | | | |
|-----------------------|----------------|------------------|-----------------|
| Operating voltage | 250V ac | Current rating | 13A |
| Operating temperature | -25°C to +85°C | Leakage current | 0.44mA @ 250V |
| Varistor | 275V | Flying leads | 270mm Line Side |
| X Capacitors | 220nF 2 | | 140mm Load Side |
| Y Capacitors | 2200pF 4 | Earth line choke | 24µH |

Mfrs. List No. PB13

FIL162

| Rating | Order Code | 1+ | 10+ | 25+ | 50+ |
|--------|------------|----|-----|-----|-----|
| 13A | 609-171 | | | | |

DIN Rail Filters



- General purpose DIN rail mounting filter for use in industrial applications and rack mounted equipment
- Compact design which offers high performance and VDR protection
- Can be used in conjunction with Roxburgh DIN rail surge suppressors
- Designed to meet IEC 950, UL, CSA and VDE requirements.

H = 74, W = 80, D = 22.5

| Rating | Inductance (mH) | Resistance Per Winding (mΩ) | Mfrs. List No. | Order Code |
|--------|-----------------|-----------------------------|----------------|------------|
| 1A | 18 | 640 | DRF01 | 552-616 |
| 3A | 3.2 | 71 | DRF03 | 552-628 |
| 6A | 1.4 | 19 | DRF06 | 552-630 |
| 8A | 1.5 | 15 | DRF08 | 552-641 |

Voltage rating 250V ac Line frequency DC to 440Hz
Operating temperature -25°C to +85°C

FIL153X

| Rating | Order Code | 1+ | 10+ | 25+ | 50+ | 100+ |
|--------|------------|----|-----|-----|-----|------|
| 1A | 552-616 | | | | | |
| 3A | 552-628 | | | | | |
| 6A | 552-630 | | | | | |
| 8A | 552-641 | | | | | |

Data Line Protectors

Data and Signal Line Protectors



H = 55, W = 120, D = 19

- Use on data and signal lines to protect connected equipment from lightning and transient overvoltage damage
- Ultra low in-line resistance and extra high running current with ESP 06E, ESP 15E, ESP 30E and ESP 50E versions
- DIN rail or flat base/side mounting
- Simultaneous mounting and earthing kits for up to 4 or 8 protectors



- Colour coded terminals for quick and easy installation check
- IP66 enclosure available for up to 4 protectors (plus mounting kit)
- Fully tested to BS 6651 and Otel approval NS/G/1235/W/100025

| Mfrs List No. | Max Voltage | In-line Resistance | Max Line Current | Peak let-through Voltage | Max Surge Current | Bandwidth | Order Code |
|---------------|---|--------------------|------------------|--------------------------|-------------------|-----------|------------|
| ESP 06D | 7.79V | 9.4Ω | 300mA | 10.5V | 10kA | 800kHz | 188-487 |
| ESP 15D | 19.0V | 9.4Ω | 300mA | 23.8V | 10kA | 2.5MHz | 188-499 |
| ESP 30D | 37.1V | 9.4Ω | 300mA | 43.4V | 10kA | 4MHz | 188-505 |
| ESP 50D | 58.0V | 9.4Ω | 300mA | 74.9V | 10kA | 6MHz | 188-517 |
| ESP 06E | 7.79V | 1.0Ω | 1.25A | 10.8V | 10kA | 1.5MHz | 188-529 |
| ESP 15E | 16.7V | 1.0Ω | 1.25A | 26.2V | 10kA | > 10MHz | 188-530 |
| ESP 30E | 36.7V | 1.0Ω | 1.25A | 44.3V | 10kA | > 10MHz | 188-542 |
| ESP 50E | 56.7V | 1.0Ω | 1.25A | 65.8V | 10kA | > 10MHz | 188-554 |
| CME 4 | Combined mounting/earthing kit for up to 4 protectors | | | | | | 188-669 |
| CME 8 | Combined mounting/earthing kit for up to 8 protectors | | | | | | 188-670 |
| WBX 4 | IP66 enclosure for protectors on a CME 4 | | | | | | 188-694 |

FIL272

| Mfrs. List No. | Order Code | 1+ | 5+ | 10+ |
|-------------------------------|------------|----|----|-----|
| Protectors | | | | |
| ESP 06D | 188-487 | | | |
| ESP 15D | 188-499 | | | |
| ESP 30D | 188-505 | | | |
| ESP 50D | 188-517 | | | |
| ESP 06E | 188-529 | | | |
| ESP 15E | 188-530 | | | |
| ESP 30E | 188-542 | | | |
| ESP 50E | 188-554 | | | |
| Mounting/Earthing Kits | | | | |
| CME 4 | 188-669 | | | |
| CME 8 | 188-670 | | | |
| Enclosure-IP66 | | | | |
| WBX 4 | 188-694 | | | |