

## Versatile easy-mount filter

## FN 420

- 0.6-6.5A current ratings
- Low profile case
- Designed for easy-mounting
- Nennströme von 0,6 bis 6,5A
- Flaches Gehäuse
- Einfache Montage
- Courants de service de 0,6 à 6,5A
- Boîtier à hauteur réduite
- Conçu pour un montage simple



### Filter selection table

Choose the family **FN xxx** with the required current rating and features, and add **/??** to determine input/output (line/load) connection style. Example: FN 422-4/13 is a 4A filter with mini fast-on connections.

### Approvals



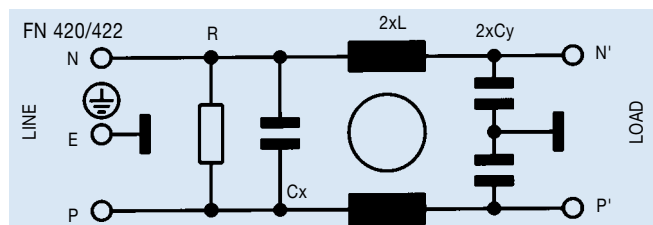
| Family          | Connections<br> | Current ratings<br>at 40°C (25°)<br>A | Inductance<br>L<br>mH |
|-----------------|---------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------|
| FN 42? -0.6 /?? | /13                                                                                               | 0.6 (0.7)                             | 22.5                  |
| FN 42? -1 /??   | /13                                                                                               | 1 (1.2)                               | 13                    |
| FN 42? -2.5 /?? | /13                                                                                               | 2.5 (3)                               | 3.4                   |
| FN 42? -4 /??   | /13                                                                                               | 4 (4.8)                               | 2                     |
| FN 42? -6.5 /?? | /13                                                                                               | 6.5 (7.3)                             | 0.75                  |

### Additional specifications

| Filter type  | Capacitance<br>Cx<br>nF | Cy<br>nF | Res.<br>R<br>MΩ | Maximum<br>leakage<br>μA/phase | Maximum<br>operating voltage<br>VAC Hz | Operating<br>frequency<br>Hz | Hipot test voltage<br>PN→E<br>VAC | P→N<br>VDC | Housing | Weight<br>g |
|--------------|-------------------------|----------|-----------------|--------------------------------|----------------------------------------|------------------------------|-----------------------------------|------------|---------|-------------|
| FN 420 types | 150                     | 2.2      | 1               | 190                            | 250 50/60                              | DC to 400                    | 2000                              | 1700       | A7B     | 70          |
| FN 422 types | 150                     | 4.7      | 1               | 190                            | 250 50/60                              | DC to 400                    | 2000                              | 1700       | A7B     | 70          |

MTBF at 40°C, 230V, per Mil-HB-217F: 625,000 hours.

### Electrical schematic

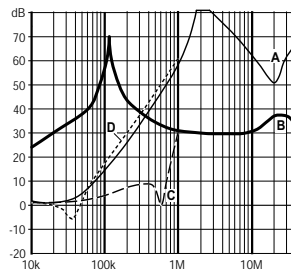


See tables for component values.

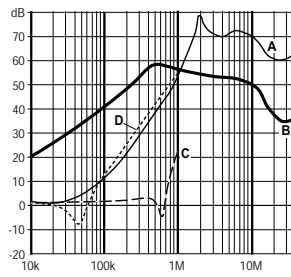
## FN 420 insertion loss

Per CISPR 17; A = 50Ω/50Ω sym, B = 50Ω/50Ω asym, C = 0.1Ω/100Ω sym, D = 100Ω/0.1Ω sym

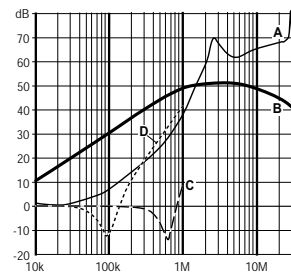
### FN 420 0.6 amp types



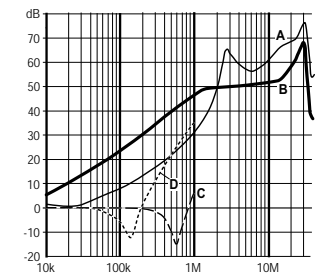
### FN 420 1 amp types



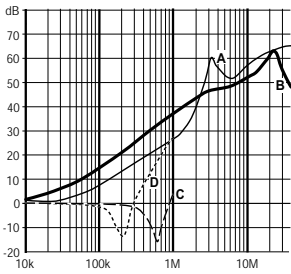
### FN 420 2.5 amp types



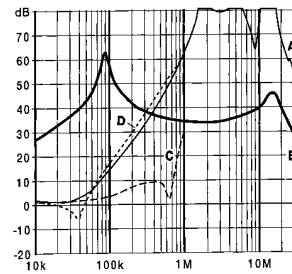
### FN 420 4 amp types



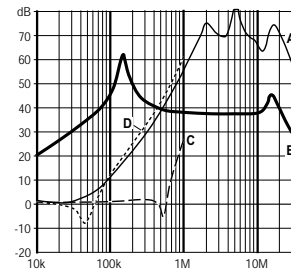
### FN 420 6.5 amp types



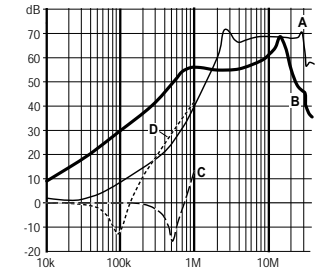
### FN 422 0.6 amp types



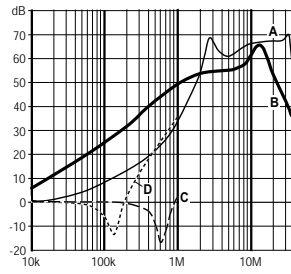
### FN 422 1 amp types



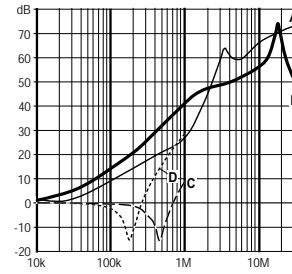
### FN 422 2.5 amp types



### FN 422 4 amp types



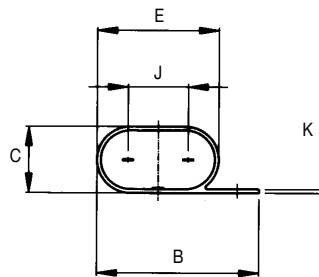
### FN 422 6.5 amp types



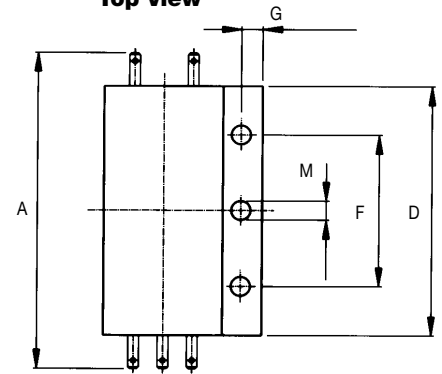
## Mechanical data

|          |      | Tol.<br>mm |
|----------|------|------------|
| <b>A</b> | 83   | ± 0.5      |
| <b>B</b> | 41   | ± 0.3      |
| <b>C</b> | 17   | ± 0.3      |
| <b>D</b> | 65.8 | ± 0.2      |
| <b>E</b> | 31   | ± 0.5      |
| <b>F</b> | 40   | ± 0.2      |
| <b>G</b> | 5.5  | ± 0.3      |
| <b>J</b> | 15.2 | ± 0.3      |
| <b>K</b> | 1    | ± 0.1      |
| <b>M</b> | Ø5   | ± 0.1      |

### Front view



### Top view



All dimensions in mm; 1 inch = 25.4 mm

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