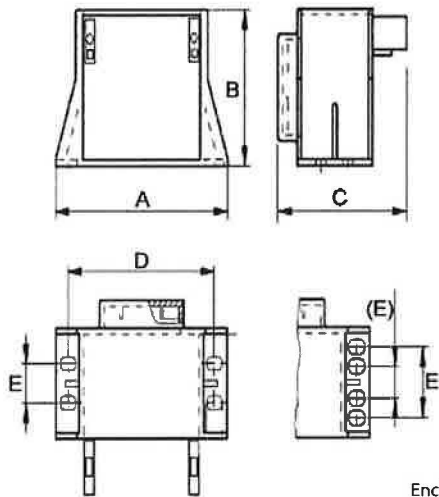
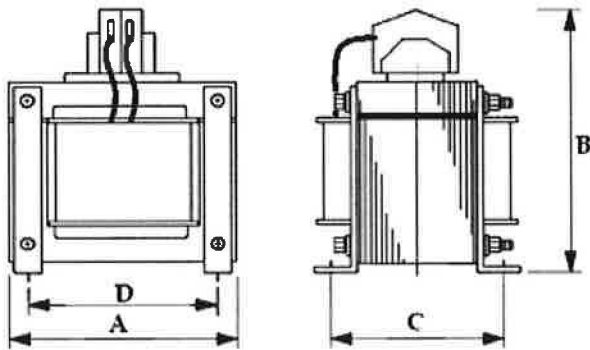


## ■ DC Choke FFR-HEL-(H)-E



Enclosure type IP20

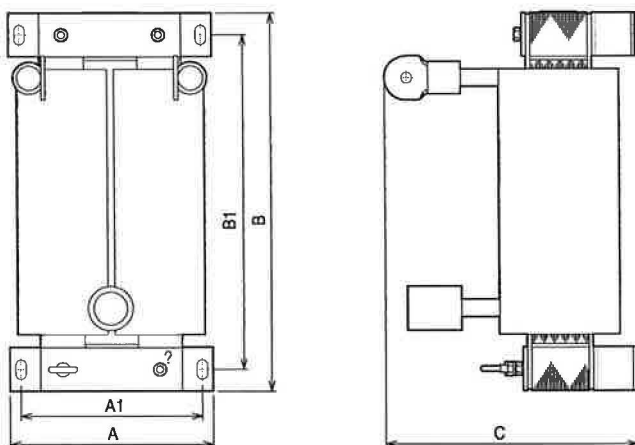


Enclosure type IP00

| Choke            | A     | B    | C   | D   | E  | Weight (kg) | Enclosure type |
|------------------|-------|------|-----|-----|----|-------------|----------------|
| FFR-HEL-0.4K-E   | 88    | 53.5 | 70  | 75  | 13 | 0.6         | IP20           |
| FFR-HEL-0.75K-E  | 88    | 53.5 | 70  | 75  | 13 | 0.6         |                |
| FFR-HEL-1.5K-E   | 112.5 | 71.5 | 81  | 98  | 33 | 1.2         |                |
| FFR-HEL-2.2K-E   | 112.5 | 71.5 | 81  | 98  | 33 | 1.2         |                |
| FFR-HEL-3.7K-E   | 120   | 74.7 | 86  | 102 | 33 | 1.5         |                |
| FFR-HEL-5.5K-E   | 133.2 | 85   | 112 | 115 | 50 | 3.1         |                |
| FFR-HEL-7.5K-E   | 133.2 | 85   | 112 | 115 | 50 | 3.1         |                |
| FFR-HEL-11K-E    | 133.2 | 85   | 112 | 115 | 50 | 3.1         |                |
| FFR-HEL-15K-E    | 133.2 | 85   | 156 | 115 | 64 | 4           |                |
| FFR-HEL-18.5K-E  | 133.2 | 85   | 163 | 115 | 64 | 4           |                |
| FFR-HEL-22K-E    | 172   | 107  | 166 | 150 | 65 | 5.5         | IP00           |
| FFR-HEL-30K-E    | 150   | 237  | 94  | 125 | —  | 8.2         |                |
| FFR-HEL-37K-E    | 150   | 237  | 114 | 125 | —  | 10.7        |                |
| FFR-HEL-45K-E    | 150   | 237  | 134 | 125 | —  | 11.3        |                |
| FFR-HEL-55K-E    | 150   | 237  | 134 | 125 | —  | 14.4        |                |
| FFR-HEL-H0.4K-E  | 75    | 43   | 60  | 62  | 12 | 0.35        | IP20           |
| FFR-HEL-H0.75K-E | 88    | 53.5 | 70  | 75  | 13 | 0.6         |                |
| FFR-HEL-H1.5K-E  | 88    | 53.5 | 70  | 75  | 13 | 0.61        |                |
| FFR-HEL-H2.2K-E  | 112.5 | 71.5 | 81  | 98  | 33 | 1.2         |                |
| FFR-HEL-H3.7K-E  | 112.5 | 71.5 | 81  | 98  | 33 | 1.2         |                |
| FFR-HEL-H5.5K-E  | 120   | 74.7 | 86  | 102 | 33 | 1.5         |                |
| FFR-HEL-H7.5K-E  | 120   | 74.7 | 100 | 102 | 45 | 2.2         |                |
| FFR-HEL-H11K-E   | 133.2 | 85   | 112 | 115 | 50 | 3.1         |                |
| FFR-HEL-H15K-E   | 133.2 | 85   | 112 | 115 | 50 | 3           |                |
| FFR-HEL-H18.5K-E | 133.2 | 85   | 128 | 115 | 64 | 4           |                |
| FFR-HEL-H22K-E   | 172   | 107  | 166 | 150 | 65 | 5.3         | IP00           |
| FFR-HEL-H30K-E   | 172   | 107  | 166 | 150 | 65 | 5.75        |                |
| FFR-HEL-H37K-E   | 172   | 107  | 186 | 150 | 85 | 8           |                |
| FFR-HEL-H45K-E   | 150   | 202  | 114 | 125 | —  | 11.3        |                |
| FFR-HEL-H55K-E   | 150   | 212  | 134 | 125 | —  | 14.4        |                |

All dimensions in mm

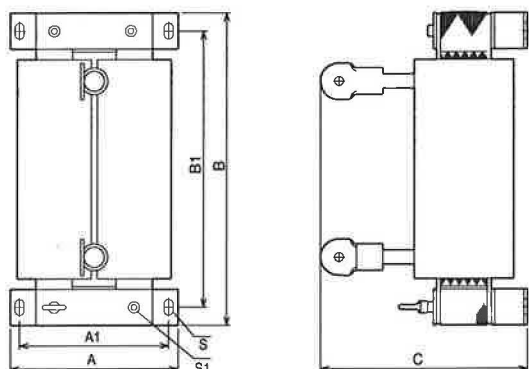
## ■ DC Choke FR-HEL-H75K/H90K



| Choke       | A   | A1  | B   | B1  | C   | Weight (kg) |
|-------------|-----|-----|-----|-----|-----|-------------|
| FR-HEL-75K  | 150 | 130 | 340 | 310 | 190 | 17          |
| FR-HEL-90K  | 150 | 130 | 340 | 310 | 200 | 19          |
| FR-HEL-110K | 175 | 150 | 400 | 365 | 200 | 20          |
| FR-HEL-H75K | 140 | 120 | 320 | 295 | 185 | 16          |
| FR-HEL-H90K | 150 | 130 | 340 | 310 | 190 | 20          |

All dimensions in mm

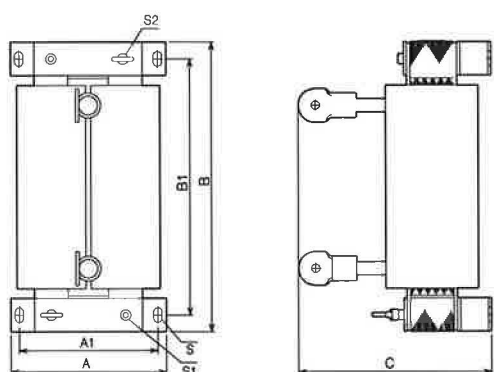
## DC Chokes FR-HEL-H110K-H160K



| Choke        | A   | A1  | B   | B1  | C   | S  | S1 | Weight [kg] |
|--------------|-----|-----|-----|-----|-----|----|----|-------------|
| FR-HEL-H110K | 150 | 130 | 340 | 310 | 195 | M6 | M6 | 22          |
| FR-HEL-H132K | 175 | 150 | 405 | 370 | 200 | M8 | M6 | 26          |
| FR-HEL-H160K | 175 | 150 | 405 | 370 | 205 | M8 | M6 | 28          |

All dimensions in mm

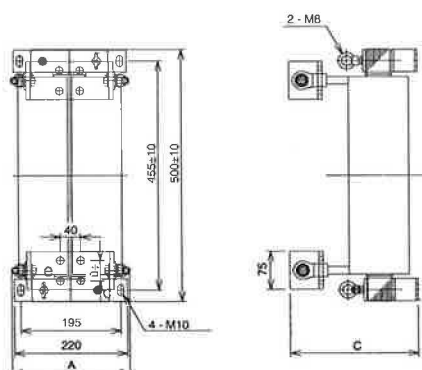
## DC Chokes FR-HEL-H185K-H355K



| Choke        | A   | A1  | B   | B1  | C   | S   | S1 | S2 | Ø   | Weight [kg] |
|--------------|-----|-----|-----|-----|-----|-----|----|----|-----|-------------|
| FR-HEL-H185K | 175 | 150 | 405 | 370 | 240 | M8  | M6 | —  | M12 | 29          |
| FR-HEL-H220K | 175 | 150 | 405 | 370 | 240 | M8  | M6 | M6 | M12 | 30          |
| FR-HEL-H250K | 190 | 165 | 440 | 400 | 250 | M8  | M8 | M8 | M12 | 35          |
| FR-HEL-H280K | 190 | 165 | 440 | 400 | 255 | M8  | M8 | M8 | M16 | 38          |
| FR-HEL-H315K | 210 | 185 | 495 | 450 | 250 | M10 | M8 | M8 | M16 | 42          |
| FR-HEL-H355K | 210 | 185 | 495 | 450 | 250 | M10 | M8 | M8 | M16 | 46          |

All dimensions in mm

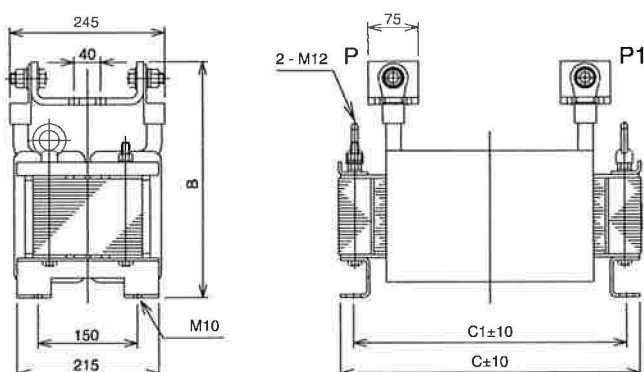
## DC Chokes FR-HEL-H400K-H450K



| Choke        | A   | C   | Weight [kg] |
|--------------|-----|-----|-------------|
| FR-HEL-H400K | 235 | 250 | 50          |
| FR-HEL-H450K | 240 | 270 | 57          |

All dimensions in mm

## DC Chokes FR-HEL-H500K-H630K



| Choke        | B   | C   | C1  | Weight [kg] |
|--------------|-----|-----|-----|-------------|
| FR-HEL-H500K | 345 | 455 | 405 | 67          |
| FR-HEL-H560K | 360 | 460 | 410 | 85          |
| FR-HEL-H630K | 360 | 460 | 410 | 95          |

All dimensions in mm