



# Filter Reactors

# MATRIX SERIES

In today's industry, power and frequency converters are being abundantly used on the mains. This causes harmonic oscillations, which elevates losses, especially inside reactive power compensation capacitors.

Using MATRIX detuned reactors reduces the risk of resonant overcurrent to a minimum and offers adequate protection of capacitors used, as well as an improvement of voltage quality.



#### REACTOR FOR PFC HARMONIC FILTERING

- Iron core. High quality materials
- Air gaps multiple gaps. Design optimised to reduce total losses, low noises
- Terminal Copper bar connection. Small mechanical size
- Complete with over temperature, bi-metal 145°C, normally closed thermostat

### Technical specifications

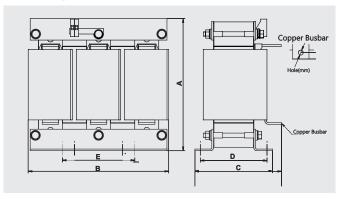
| Standards                       | IEC60289, IEC60076<br>EN61558-2-20, CE  |
|---------------------------------|---|
| Design                          | Ironcore multible aircap, low loss core |
| Tolerance,<br>Inductance        | -3/+3% 3-phase average                  |
| Linearity/%                     | 1,75 x In 95% inductance                |
| Insulation level                | 3 kVac                                  |
| Insulation<br>temperature class | Class H - 180 °C                        |
| Cooling                         | Natural cooling                         |

| Ambient temperature | - 20 +60 °C T60  |
|---------------------|--|
| Protection class    | IP00   |
| Installation        | Screw fastening  |
| Color               | Light brown or black                                     |
| Noise level         | Max. 50 dB with rated harmonics currents at 1 m distance |

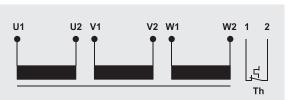
Optional

- Temperature switch 145 °C +-5%, 250 Vac (<6,3A)..500 Vac (<2A)
- Stranded wire outputs (flexible cable 110 °C)
- · Lateral mounting

## **Drawing & Dimension**



### Connection diagram



#### **Terminals**

| Туре   | Terminals                 | Clamp size | Tightening<br>torque / Nm |
|--------|---------------------------|------------|---------------------------|
| 10-25  | Busbar/Blocks/ Cable Lugs | M6         | 10                        |
| 30-50  | Busbar                    | M8         | 10                        |
| 60-100 | Busbar                    | M10        | 10/16                     |

|  |  |  |   |   |   |  |   |  |  | ı  |  |
|--|--|--|---|---|---|--|---|--|--|--|--|
| Capacitor 230V   | Matrix Series  | Ith  | Α   | В   | C   | D  | E   | Holes  | Pw   | Terminal   | kg   |
| Qc/V   | Ordering Code  | ( A )  | (mm)  | (mm)  | (mm)  | (mm)   | (mm)  | (ømm)  | (W)  | Туре   | (-5/ +10%)   |
|  | lystem 3 Phase 200/210Va   | i  | _   |   |   |  | ı   | ı  | _  | ı  | 1  |
| 10   | AFR-0307008V200  | 29.6   | 205   | 210   | 115   | 75   | 116   | 10   | 45   | Blocks/ Cable Lugs   | 9  |
| 15   | AFR-0307013V200  | 44.4   | 205   | 235   | 135   | 82   | 116   | 10   | 65   | Blocks/ Cable Lugs   | 11   |
| 20   | AFR-0307017V200  | 59.2   | 220   | 240   | 145   | 87   | 116   | 10   | 70   | Busbar   | 15   |
| 25   | AFR-0307020V200  | 74.0   | 220   | 240   | 150   | 96   | 136   | 10   | 80   | Busbar   | 17   |
| 30   | AFR-0307025V200  | 88.8   | 220   | 240   | 155   | 100  | 136   | 10   | 90   | Busbar   | 20   |
| 40   | AFR-0307033V200  | 118.5  | 230   | 285   | 170   | 114  | 136   | 10   | 110  | Busbar   | 24   |
| 50   | AFR-0307040V200  | 148.1  | 265   | 295   | 170   | 122  | 170   | 10   | 125  | Busbar   | 26   |
| 60   | AFR-0307049V200  | 177.7  | 265   | 352   | 245   | 122  | 170   | 10   | 155  | Busbar   | 37   |
| 75   | AFR-0307061V200  | 221.0  | 280   | 352   | 245   | 168  | 300   | 16   | 170  | Busbar   | 40   |
| 80   | AFR-0307065V200  | 236.9  | 280   | 352   | 255   | 168  | 300   | 16   | 170  | Busbar   | 42   |
| 90   | AFR-0307073V200  | 266.4  | 280   | 355   | 265   | 180  | 300   | 16   | 180  | Busbar   | 45   |
| 100  | AFR-0307082V200  | 296.0  | 280   | 355   | 265   | 180  | 300   | 16   | 190  | Busbar   | 45   |
| Capacitor 440V   | Matrix Series  | Ith  | Α   | В   | С   | D  | Е   | Holes  | Pw   | Terminal   | kg   |
| . Qc/V   | Ordering Code  | ( A )  | (mm)  | (mm)  | (mm)  | (mm)   | (mm)  | (ømm)  | (W)  | Туре   | (-5/ +10%)   |
| P = 7% - 189Hz, S  | ystsem 3 Phase 400Vac 5  | 0Hz  | -   |   |   |  |   | -  | -  |  |  |
| 10   | AFR-0307009V400  | 15.4   | 205   | 210   | 115   | 75   | 116   | 10   | 45   | Blocks/ Cable Lugs   | 9  |
| 15   | AFR-0307013V400  | 23.1   | 205   | 210   | 135   | 82   | 116   | 10   | 65   | Blocks/ Cable Lugs   | 11   |
| 20   | AFR-0307017V400  | 30.8   | 220   | 240   | 140   | 87   | 116   | 10   | 70   | Busbar   | 15   |
| 25   | AFR-0307022V400  | 38.5   | 220   | 240   | 150   | 96   | 136   | 10   | 80   | Busbar   | 17   |
| 30   | AFR-0307026V400  | 46.2   | 220   | 240   | 155   | 100  | 136   | 10   | 90   | Busbar   | 20   |
| 40   | AFR-0307035V400  | 61.7   | 220   | 240   | 170   | 114  | 136   | 10   | 110  | Busbar   | 24   |
| 50   | AFR-0307044V400  | 77.1   | 265   | 240   | 175   | 122  | 136   | 10   | 125  | Busbar   | 26   |
| 60   | AFR-0307053V400  | 92.5   | 265   | 240   | 170   | 122  | 136   | 10   | 155  | Busbar   | 37   |
| 75   | AFR-0307067V400  | 115.5  | 280   | 305   | 185   | 145  | 170   | 16   | 170  | Busbar   | 40   |
| 80   | AFR-0307071V400  | 123.3  | 280   | 305   | 185   | 145  | 170   | 16   | 170  | Busbar   | 42   |
| 90   | AFR-0307080V400  | 138.6  | 280   | 305   | 195   | 145  | 170   | 16   | 180  | Busbar   | 45   |
| 100  | AFR-0307089V400  | 154.1  | 280   | 305   | 200   | 145  | 170   | 16   | 190  | Busbar   | 45   |
|  |  |  | I   |   |   |  | _   |  | _  |  |  |
| Canacitor 525V   | Matrix Series  | Ith  | A   | В   | C   | D  | E   | Holes  | Pw   | Terminal   | ka   |
| Capacitor 525V<br>Qc/V   | Matrix Series<br>Ordering Code   | Ith<br>(A)   | A<br>(mm)   | B<br>(mm)   | (mm)  | (mm)   | E<br>(mm)   | Holes<br>(ømm)   | Pw<br>(W)  | Terminal<br>Type   | kg<br>(-5/ +10%)   |
| . Qc/V   |  | (A)  |   | _   | _   | _  | _   |  |  |  | _  |
| . Qc/V   | Ordering Code  | (A)  |   | _   | _   | _  | _   |  |  |  | _  |
| Qc/V<br>P = 7% - 189Hz, S  | Ordering Code<br>System 3 Phase 400Vac 50  | (A)<br>Hz  | (mm)  | (mm)  | (mm)  | (mm)   | (mm)  | (ømm)  | (W)  | Туре   | (-5/+10%)  |
| Qc/V<br>P = 7% - 189Hz, S  | Ordering Code<br>system 3 Phase 400Vac 50<br>AFR-0307010V525   | (A)<br>OHz<br>10.8   | (mm)<br>225   | (mm)  | (mm)  | (mm)   | (mm)  | (ømm)<br>10  | (W)  | Type  Blocks/ Cable Lugs   | (-5/+10%)  |
| Qc/V P = 7% - 189Hz, S 10 15   | Ordering Code<br>system 3 Phase 400Vac 50<br>AFR-0307010V525<br>AFR-0307015V525  | (A)<br>0Hz<br>10.8<br>16.2   | (mm)<br>225<br>225  | (mm)<br>210<br>210  | (mm)<br>130<br>135  | (mm)<br>67<br>74   | (mm)<br>116<br>116  | (ømm)<br>10<br>10  | 45<br>55   | Type  Blocks/ Cable Lugs Blocks/ Cable Lugs  | 9 11   |
| Qc/V P = 7% - 189Hz, S 10 15 20  | Ordering Code<br>system 3 Phase 400Vac 50<br>AFR-0307010V525<br>AFR-0307015V525<br>AFR-0307020V525   | (A)<br>DHz<br>10.8<br>16.2<br>21.7   | (mm)<br>225<br>225<br>225<br>195  | (mm)<br>210<br>210<br>210   | (mm)<br>130<br>135<br>135   | (mm)<br>67<br>74<br>78   | (mm)  116 116 116   | (ømm)  10 10 10  | 45<br>55<br>65   | Type  Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar   | 9 11 11.5  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307025V525   | (A)<br>DHz<br>10.8<br>16.2<br>21.7<br>25.9   | 225<br>225<br>225<br>195<br>195   | (mm)<br>210<br>210<br>210<br>210  | (mm)<br>130<br>135<br>135<br>140  | (mm)<br>67<br>74<br>78<br>88   | (mm)  116 116 116 116   | 10<br>10<br>10<br>10   | 45<br>55<br>65<br>70   | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar  | 9<br>11<br>11.5<br>15  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307025V525 AFR-0307030V525   | (A)  DHz  10.8  16.2  21.7  25.9  32.5   | 225<br>225<br>195<br>195<br>220   | 210<br>210<br>210<br>210<br>210<br>240  | 130<br>135<br>135<br>140<br>145   | (mm)<br>67<br>74<br>78<br>88<br>94   | (mm)  116 116 116 116 116 136   | 10<br>10<br>10<br>10<br>10                                     | 45<br>55<br>65<br>70<br>80   | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar  | 9 11 11.5 15 17  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307025V525 AFR-0307030V525 AFR-0307040V525   | (A) DHz 10.8 16.2 21.7 25.9 32.5 43.3  | (mm)  225 225 195 195 220 220   | 210<br>210<br>210<br>210<br>210<br>240<br>240   | 130<br>135<br>135<br>140<br>145<br>150  | (mm)<br>67<br>74<br>78<br>88<br>94<br>97   | (mm)  116 116 116 116 136 136   | 10<br>10<br>10<br>10<br>10<br>10                               | 45<br>55<br>65<br>70<br>80<br>90   | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar   | 9<br>11<br>11.5<br>15<br>17<br>20  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40 50  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1   | 225<br>225<br>195<br>195<br>220<br>220<br>220                             | (mm)  210 210 210 210 210 240 240 240   | 130<br>135<br>135<br>140<br>145<br>150<br>165   | (mm)<br>67<br>74<br>78<br>88<br>94<br>97<br>110  | (mm)  116 116 116 116 136 136 136   | 10<br>10<br>10<br>10<br>10<br>10<br>10                         | 45<br>55<br>65<br>70<br>80<br>90<br>110  | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar   | 9 11 11.5 15 17 20 23  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40 50  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0   | 225<br>225<br>195<br>195<br>220<br>220<br>220<br>220                      | 210<br>210<br>210<br>210<br>210<br>240<br>240<br>240<br>240   | 130<br>135<br>135<br>140<br>145<br>150<br>165<br>170  | (mm)  67 74 78 88 94 97 110 124  | (mm)  116 116 116 116 136 136 136 136   | 10 10 10 10 10 10 10 10 10 10 10 10                            | 45<br>55<br>65<br>70<br>80<br>90<br>110<br>125   | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar  | 9 11 11.5 15 17 20 23 25   |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525   | (A)  DHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7   | 225<br>225<br>195<br>195<br>220<br>220<br>220<br>220<br>270               | 210<br>210<br>210<br>210<br>240<br>240<br>240<br>240<br>305   | 130<br>135<br>135<br>140<br>145<br>150<br>165<br>170  | (mm)<br>67<br>74<br>78<br>88<br>94<br>97<br>110<br>124<br>124  | (mm)  116 116 116 116 136 136 136 136 170   | (ømm)  10 10 10 10 10 10 10 10 10 10 10                        | 45<br>55<br>65<br>70<br>80<br>90<br>110<br>125<br>155                                    | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar   | 9 11 11.5 15 17 20 23 25 36  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525   | (A)  DHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6   | (mm)  225 225 195 195 220 220 220 270 270                                 | (mm)  210 210 210 210 240 240 240 240 305 305   | (mm)  130 135 135 140 145 150 165 170 170   | (mm)  67  74  78  88  94  97  110  124  124  130   | (mm)  116 116 116 116 136 136 136 136 170 170   | 10 10 10 10 10 10 10 10 10 10 10 10 10                         | 45<br>55<br>65<br>70<br>80<br>90<br>110<br>125<br>155<br>170                             | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar  | 9 11 11.5 15 17 20 23 25 36 36   |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307060V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  | (mm)  225 225 195 195 220 220 220 270 270 270 270                         | (mm)  210 210 210 210 240 240 240 305 305 305 305   | (mm)  130 135 135 140 145 150 165 170 175 175   | (mm)  67  74  78  88  94  97  110  124  124  130  130  130   | (mm)  116 116 116 116 136 136 136 137 170 170 170   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | (W)  45 55 65 70 80 90 110 125 155 170 175   | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar   | 9 11 11.5 15 17 20 23 25 36 36 41 41   |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40 50 60 75 80 90 100  Capacitor 525V  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525 AFR-0307080V525   | (A)  DHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5   | (mm)  225 225 195 195 220 220 220 270 270 270                             | (mm)  210 210 210 210 240 240 240 240 305 305 305   | (mm)  130 135 135 140 145 150 165 170 175   | (mm)  67  74  78  88  94  97  110  124  124  130  130  | (mm)  116 116 116 116 136 136 136 136 170 170   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10       | 45<br>55<br>65<br>70<br>80<br>90<br>110<br>125<br>155<br>170                             | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar   | 9 11 11.5 15 17 20 23 25 36 36 41  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307060V525 AFR-0307050V525   | (A)  Hz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  | (mm)  225 225 195 195 220 220 220 270 270 270 270                         | (mm)  210 210 210 210 240 240 240 305 305 305 305   | (mm)  130 135 135 140 145 150 165 170 175 175 C   | (mm)  67  74  78  88  94  97  110  124  124  130  130  D   | (mm)  116 116 116 116 136 136 136 137 170 170 170 170   | 10 10 10 10 10 10 10 10 10 10 10 Holes                         | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw  | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar  | 9 11 11.5 15 17 20 23 25 36 36 41 41 kg  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307050V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525   | (A)  DHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  DHz  | (mm)  225 225 195 195 220 220 220 270 270 270 A (mm)                      | (mm)  210 210 210 240 240 240 305 305 305 B (mm)  | (mm)  130 135 135 140 145 150 165 170 175 175  C (mm)   | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)   | (mm)  116 116 116 116 136 136 136 170 170 170 E (mm)  | 10 10 10 10 10 10 10 10 10 Holes (ømm)                         | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar Terminal Type   | 9 11 11.5 15 17 20 23 25 36 41 41 41 kg (-5/+10%)  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40 50 60 75 80 90 100  Capacitor 525V Qc/V P = 14% -134Hz, S   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525   | (A)  Hz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  | (mm)  225 225 195 195 220 220 220 270 270 270 270                         | (mm)  210 210 210 210 240 240 240 305 305 305 305   | (mm)  130 135 135 140 145 150 165 170 175 175 C   | (mm)  67  74  78  88  94  97  110  124  124  130  130  D   | (mm)  116 116 116 116 136 136 136 170 170 170 170 170   | (ømm)  10 10 10 10 10 10 10 10 10 10 10 Holes (ømm)            | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw  | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar  | 9 11 11.5 15 17 20 23 25 36 36 41 41 kg (-5/+10%)  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15                                 | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307025V525 AFR-0307030V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-03100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525   | (A)  PHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  PHz  11.2  | (mm)  225 225 195 195 220 220 270 270 270 270 A (mm)                      | (mm)  210 210 210 210 240 240 240 305 305 305 B (mm)  | (mm)  130 135 135 140 145 150 165 170 175 175  C (mm)   | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)   | (mm)  116 116 116 116 136 136 136 170 170 170 E (mm)  | 10 10 10 10 10 10 10 10 10 Holes (ømm)                         | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  | Blocks/ Cable Lugs Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Terminal Type  Blocks/ Cable Lugs Blocks/ Cable Lugs   | 9  |
| Qc/V P = 7% - 189Hz, S 10 15 20 25 30 40 50 60 75 80 90 100  Capacitor 525V Qc/V P = 14% -134Hz, S   | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307025V525 AFR-0307030V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525 AFR-0307100V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  OHz  11.2  16.8  | (mm)  225 225 195 195 220 220 220 270 270 270 4 (mm)  185 195             | (mm)  210 210 210 210 240 240 240 305 305 305 305 305 210 240   | (mm)  130 135 135 140 145 150 165 170 175 175  C (mm)  135 135                                    | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)  67  74                                     | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 1710                                | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar Terminal Type  | 9 11 11.5 15 17 20 23 25 36 36 41 41 kg (-5/+10%)  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20                             | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307080V525 AFR-0307090V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-03100V525 AFR-0314010V525 AFR-0314010V525 AFR-0314010V525 AFR-0314010V525   | (A)  PHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  Hz  11.2  16.8  22.4   | (mm)  225 225 195 195 220 220 270 270 270 4 (mm)  185 195 210             | (mm)  210 210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240                                     | (mm)  130 135 135 140 145 150 165 170 175 175  C (mm)  135 135 135 150                            | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)  67  74  78                                 | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 170 170 170                         | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  84 96 115                             | Blocks/ Cable Lugs Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar  | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25                         | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307050V525 AFR-0307050V525 AFR-0307060V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-03100V525 AFR-0314010V525 AFR-0314015V525 AFR-0314015V525 AFR-0314020V525 AFR-0314025V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  OHz  11.2  16.8  22.4  25.9                                    | (mm)  225 225 195 195 220 220 270 270 270 4 (mm)  185 195 210 210         | (mm)  210 210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240                                 | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 135 150 165                             | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)  67  74  78  88                             | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 170 176 116 136 136 136             | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  84 96 115 122                         | Blocks/ Cable Lugs Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar  | 9<br>  11<br>  11.5<br>  15<br>  17<br>  20<br>  23<br>  25<br>  36<br>  36<br>  41<br>  41<br>  kg<br>  (-5/+10%) |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30                     | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-0307050V525 AFR-03100V525 AFR-0314010V525 AFR-0314010V525 AFR-0314015V525 AFR-0314020V525 AFR-0314020V525 AFR-0314030V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  OHz  11.2  16.8  22.4  25.9  33.6                              | (mm)  225 225 195 195 220 220 270 270 270 270 270 270 270 270             | (mm)  210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240 240                                 | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 175 175 175 175 175                     | (mm)  67  74  78  88  94  97  110  124  130  130  130  D (mm)  67  74  78  88  94                    | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 116 116 136 136 136 136             | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  84 96 115 122 132                     | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar   | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30  40                 | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307060V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-03100V525 AFR-0314010V525 AFR-0314010V525 AFR-0314020V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  OHz  11.2  16.8  22.4  25.9  33.6  44.8                        | (mm)  225 225 195 195 220 220 220 270 270 270 270 270 210 210 245         | (mm)  210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240 240 240                             | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 175 135 150 165 175 185                 | (mm)  67  74  78  88  94  97  110  124  130  130  130  D (mm)  67  74  78  88  94  97                | (mm)  116 116 116 136 136 136 170 170 170 170 170 170 170 116 116 136 136 136 136                 | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 175 Pw (W)  84 96 115 122 132 165             | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar   | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30  40  50             | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307040V525 AFR-0307050V525 AFR-0307050V525 AFR-0307075V525 AFR-0307080V525 AFR-0307090V525 AFR-0307100V525 AFR-0307100V525 AFR-03100V525 AFR-0314010V525 AFR-0314010V525 AFR-0314020V525 AFR-0314020V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525 AFR-0314040V525 AFR-0314040V525 AFR-0314040V525 AFR-0314050V525   | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  OHz  11.2  16.8  22.4  25.9  33.6  44.8  56.0                  | (mm)  225 225 195 195 220 220 270 270 270 270 270 210 210 245 265         | (mm)  210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240 240 240 240 240                     | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 185 190                                 | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)  67  74  78  88  94  97  110                | (mm)  116 116 116 116 136 136 136 170 170 170 170 16 116 136 136 136 136 136 136 136 136          | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 Pw (W)  84 96 115 122 132 165 205             | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar   | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30  40  50  60  60     | Ordering Code  ystem 3 Phase 400Vac 50  AFR-0307010V525  AFR-0307015V525  AFR-0307020V525  AFR-0307030V525  AFR-0307040V525  AFR-0307050V525  AFR-0307060V525  AFR-0307050V525  AFR-0307080V525  AFR-0307090V525  AFR-0307090V525  AFR-0307100V525  AFR-0314010V525  AFR-0314010V525  AFR-0314010V525  AFR-0314020V525  AFR-0314030V525  AFR-0314030V525  AFR-0314030V525  AFR-0314030V525  AFR-0314050V525  AFR-0314060V525  AFR-0314060V525  | (A) PHz 10.8 16.2 21.7 25.9 32.5 43.3 54.1 65.0 77.7 86.6 97.5 108.3  Ith (A) PHz 11.2 16.8 22.4 25.9 33.6 44.8 56.0 67.2                                  | (mm)  225 225 195 195 220 220 270 270 270 270 270 270 270 270             | (mm)  210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240 240 310 310                         | (mm)  130 135 135 140 145 150 165 170 175 175  C (mm)  135 135 150 165 175 185 190 195            | (mm)  67 74 78 88 94 97 110 124 124 130 130 D (mm)  67 74 78 88 94 97 110 124                        | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 116 136 136 136 136 137 170 170 170 | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 175 Pw (W)  84 96 115 122 132 165 205 205     | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Busbar Busbar Busbar Busbar Busbar Busbar Busbar               | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30  40  50  60  75     | Ordering Code  ystem 3 Phase 400Vac 50  AFR-0307010V525  AFR-0307015V525  AFR-0307020V525  AFR-0307030V525  AFR-0307030V525  AFR-0307050V525  AFR-0307060V525  AFR-0307080V525  AFR-0307090V525  AFR-0307090V525  AFR-0307090V525  AFR-03100V525  AFR-0314010V525  AFR-0314010V525  AFR-0314010V525  AFR-0314010V525  AFR-0314010V525  AFR-0314000V525  AFR-0314000V525  AFR-0314030V525  AFR-0314030V525  AFR-0314060V525  AFR-0314060V525  AFR-0314060V525  AFR-0314075V525          | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  Hz  11.2  16.8  22.4  25.9  33.6  44.8  56.0  67.2  84.0       | (mm)  225 225 195 195 220 220 220 270 270 270 270 210 210 210 245 265 300 | (mm)  210 210 210 240 240 240 305 305 305 305 305 210 240 240 240 240 240 240 310 310 310                     | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 2 (mm)  135 150 165 175 185 190 195 220 | (mm)  67 74 78 88 94 97 110 124 130 130 130  Cmm)  67 74 78 88 94 97 110 124 124 124 124             | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 170 170 170                         | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 175 Pw (W)  84 96 115 122 132 165 205 275     | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Blocks/ Cable Lugs Busbar                    | 9  |
| Qc/V  P = 7% - 189Hz, S  10  15  20  25  30  40  50  60  75  80  90  100  Capacitor 525V Qc/V  P = 14% -134Hz, S  10  15  20  25  30  40  50  60  75  80 | Ordering Code system 3 Phase 400Vac 50 AFR-0307010V525 AFR-0307015V525 AFR-0307020V525 AFR-0307030V525 AFR-0307030V525 AFR-0307050V525 AFR-0307060V525 AFR-0307080V525 AFR-0307090V525 AFR-0307090V525 AFR-0307100V525 AFR-0314010V525 AFR-0314010V525 AFR-0314010V525 AFR-0314020V525 AFR-0314020V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525 AFR-0314030V525 AFR-0314050V525 AFR-0314050V525 AFR-0314060V525 AFR-0314060V525 AFR-0314075V525 AFR-0314075V525 AFR-0314080V525 | (A)  OHz  10.8  16.2  21.7  25.9  32.5  43.3  54.1  65.0  77.7  86.6  97.5  108.3  Ith (A)  Hz  11.2  16.8  22.4  25.9  33.6  44.8  56.0  67.2  84.0  89.6 | (mm)  225 225 195 195 220 220 270 270 270 270 270 270 270 270             | (mm)  210 210 210 210 240 240 240 305 305 305 305 305 305 305 305 310 240 240 240 240 240 240 310 310 310 310 | (mm)  130 135 135 140 145 150 165 170 175 175 175 175 175 200 195 220 228                         | (mm)  67  74  78  88  94  97  110  124  130  130  D (mm)  67  74  78  88  94  97  110  124  124  130 | (mm)  116 116 116 116 136 136 136 170 170 170 170 170 170 170 170 170 170                         | (ømm)  10 10 10 10 10 10 10 10 10 10 10 10 10                  | (W)  45 55 65 70 80 90 110 125 155 170 175 175 Pw (W)  84 96 115 122 132 165 205 275 285 | Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar Blocks/ Cable Lugs Blocks/ Cable Lugs Busbar | 9  |

<sup>\*</sup> Dimension subject to change without prior notice \* Other specification available upon request

