



## Product Data Sheets

**C.87/8 Series**

**C.87/0 Series**

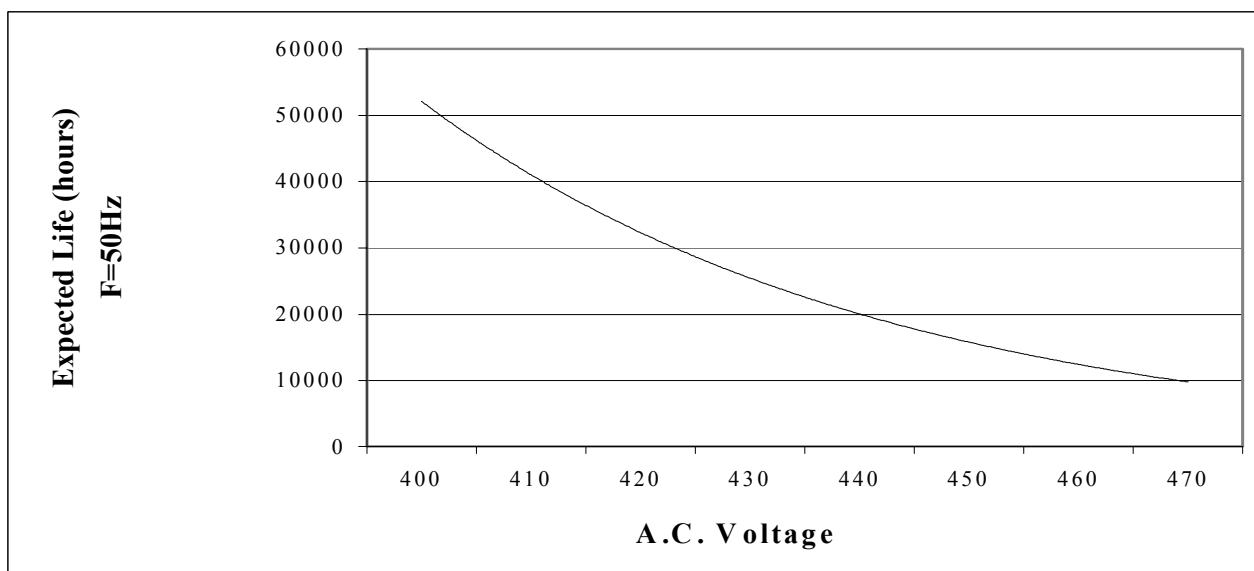


**TYPICAL APPLICATIONS:** the capacitor is used in series to the start-winding of the single-phase electric motor, allowing its starting and increasing the torque during work. Main application fields: low power electric motors compressors. The choice of capacitor depends on expected life length and the mechanical connection of the user.

**PRODUCT MARKING : TYPE A (STANDARD)**

EXAMPLE

|                                                                                                          |                                                                                                        |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <br><b>ARCOTRONICS</b> | <b>C.87.8AF1 MKP</b><br><b>6 <math>\mu</math>F <math>\pm</math> 5 %</b>                                |
|                                                                                                          | <b>420V~ 30000h/CLASS A</b><br><b>470V~ 10000h/CLASS B</b>                                             |
| <b>-25/85/21</b><br><b>P2</b>                                                                            | <br><b>EN 60252</b> |
|                       | <b>6</b>                                                                                               |



| GENERAL DATA | SIZES TABLES | FAST-ON | BIPOLAR CABLE | DRAWINGS |
|--------------|--------------|---------|---------------|----------|
| 41           | 42           | 46      | 48            | 57       |

**General technical data**

| Reference standards                                                                | IEC 252: 1993    EN 60252: 1994    CEI EN 60252: 1994                                                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval EN 60 252                                                                 | <b>VDE Testing and Certification Institute</b>                                                                                                            |
| UL810 Recognised Component Mark                                                    | <b>Approved up 500 Vac (diameter <math>\geq</math> 30 mm)</b><br>Standard Marking: 450 Vac 60 Hz. -25/+70 °C. Please contact us for other kind of marking |
| CSA CAN/CSA – C22.2 n.14-95                                                        | 600V – Diameters 50 – 55 – 60 mm                                                                                                                          |
| CSA Std. C22.2 No 190 - M1985                                                      | 240V – Diameters 30 – 35 – 40 – 45 mm                                                                                                                     |
| Type of working:                                                                   | Continuous                                                                                                                                                |
| Operating class:                                                                   | <b>CLASS B – 10.000 hours, 470 Volt a.c.</b><br><b>CLASS A – 30.000 hours, 420 Volt a.c.</b>                                                              |
| Operating Min. / Max. Temperature:                                                 | - 25 / 85 °C                                                                                                                                              |
| Rated Voltage Vn (a.c.):                                                           | 500 Volt a.c.                                                                                                                                             |
| Rated Frequency (Hz)                                                               | 50 - 60 Hz                                                                                                                                                |
| Voltage rise/fall time (max):                                                      | 20 Volt / $\mu$ s                                                                                                                                         |
| Maximum Permissible Voltage:                                                       | 1.10 x Rated Voltage                                                                                                                                      |
| Maximum Permissible Current:                                                       | 1.30 x Rated Current                                                                                                                                      |
| Dissipation factor, Tg $\delta$ :                                                  | 20 x 10 <sup>-4</sup> at 20°C, 50 Hz                                                                                                                      |
| Safety class:                                                                      | P2                                                                                                                                                        |
| Maximum altitude:                                                                  | 2000 m                                                                                                                                                    |
| Capacitance Tolerance (standard):                                                  | $\pm$ 5 %                                                                                                                                                 |
| Mounting:                                                                          | Any position                                                                                                                                              |
| Case:                                                                              | Aluminium                                                                                                                                                 |
| Disk:                                                                              | Thermoplastic Polymer V0 (UL94)                                                                                                                           |
| Filling Resin:                                                                     | Polyurethane                                                                                                                                              |
| Dielectric:                                                                        | Polypropylene                                                                                                                                             |
| Plates:                                                                            | Self-healing metal layer                                                                                                                                  |
| Voltage Test terminal to terminal:                                                 | 2 Vn for 2 s                                                                                                                                              |
| Voltage Test terminal to case                                                      | 2.000 Volt for 2 s                                                                                                                                        |
| Leakage – Clearance in air between parts under voltage:                            | $\geq$ 5mm                                                                                                                                                |
| Leakage – Clearance in air between parts under voltage and accessible metal parts: | $\geq$ 6mm                                                                                                                                                |
| Vibration test:                                                                    | IEC 68-2-6                                                                                                                                                |
| Max Tightening torque:                                                             | 5 Nm (M8) – 10 Nm (M12)                                                                                                                                   |

| Rated Cap.    |   | Rated Current | Max dv/dt         | Diameter | Height | Pack. | Diameter      | Height | Pack. | Element weight |
|---------------|---|---------------|-------------------|----------|--------|-------|---------------|--------|-------|----------------|
| $\mu\text{F}$ |   | A             | V / $\mu\text{S}$ | FAST-ON  |        |       | BIPOLAR CABLE |        |       | FAST-ON        |
|               |   |               |                   | mm       | mm     | pcs   | mm            | mm     | pcs   | g              |
| 1.0           |   | 0.15          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 1.5           |   | 0.22          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 2.0           |   | 0.29          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 2.5           |   | 0.37          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 3.0           |   | 0.44          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 3.15          |   | 0.47          | 20                | 30       | 48     | 115   | 30            | 70     | 36    | 36             |
| 3.5           |   | 0.52          | 20                | 35       | 48     | 86    | 35            | 70     | 36    | 49             |
| 4.0           |   | 0.59          | 20                | 35       | 48     | 86    | 35            | 70     | 36    | 49             |
| 4.5           |   | 0.66          | 20                | 35       | 48     | 86    | 35            | 70     | 36    | 49             |
| 5.0           |   | 0.74          | 20                | 35       | 48     | 86    | 35            | 70     | 36    | 49             |
| 6.0           |   | 0.88          | 20                | 30       | 78     | 115   | 30            | 100    | 36    | 58             |
| 7.0           |   | 1.03          | 20                | 30       | 78     | 115   | 30            | 100    | 36    | 58             |
| 8.0           |   | 1.18          | 20                | 30       | 78     | 115   | 30            | 100    | 36    | 58             |
| 10.0          |   | 1.47          | 20                | 35       | 78     | 86    | 35            | 100    | 36    | 79             |
| 12.0          |   | 1.77          | 20                | 35       | 78     | 86    | 35            | 100    | 36    | 79             |
| 12.5          |   | 1.84          | 20                | 35       | 78     | 86    | 35            | 100    | 36    | 79             |
| 14.0          |   | 2.07          | 20                | 40       | 78     | 62    | 40            | 100    | 25    | 103            |
| 16.0          |   | 2.36          | 20                | 40       | 78     | 62    | 40            | 100    | 25    | 103            |
| 18.0          |   | 2.66          | 20                | 45       | 78     | 50    | 45            | 100    | 25    | 130            |
| 20.0          |   | 2.95          | 20                | 45       | 78     | 50    | 45            | 100    | 25    | 130            |
| 22.0          |   | 3.25          | 20                | 45       | 78     | 50    | 45            | 100    | 25    | 130            |
| 25.0          |   | 3.69          | 20                | 45       | 98     | 50    | 45            | 120    | 25    | 165            |
| 30.0          |   | 4.43          | 20                | 45       | 98     | 50    | 45            | 120    | 25    | 165            |
| 31.5          |   | 4.65          | 20                | 45       | 133    | 50    | 45            | 120    | 25    | 165            |
| 35.0          |   | 5.16          | 20                | 45       | 133    | 50    | 45            | 155    | 25    | 222            |
| 40.0          |   | 5.90          | 20                | 45       | 133    | 50    | 45            | 155    | 25    | 222            |
| 45.0          |   | 6.64          | 20                | 50       | 133    | 40    | 50            | 155    | 16    | 274            |
| 50.0          | ⊗ | 7.38          | 20                | 50       | 133    | 40    | 50            | 155    | 16    | 274            |
| 55.0          | ⊗ | 8.12          | 20                | 50       | 133    | 40    | 50            | 155    | 16    | 274            |
| 60.0          | ⊗ | 8.85          | 20                | 50       | 133    | 40    | 50            | 155    | 16    | 274            |

⊗ Capacitor produced according EN60252 standard with Arcotronics self-certification



**TYPICAL APPLICATION:** the capacitor is used in series to the start-winding of the single-phase electric motor, allowing its starting and increasing the torque during work. Main application fields: low power electric motors, compressors. The choice of the capacitor depends on expected life length and the mechanical connection of the user.

**PRODUCT MARKING: TYPE C - EXAMPLE**

**A**

ARCOTRONICS

420V~ 10000h/CLASS B

470V~ 3000h/CLASS C

-25/85/21

P2

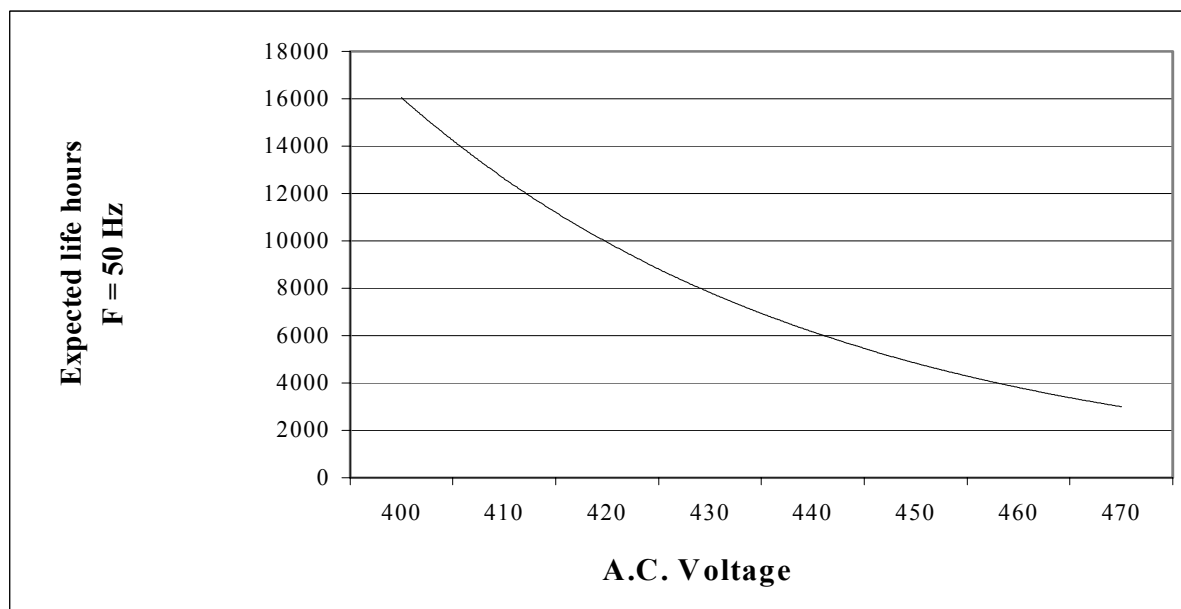
**CE**

**C.87.0CF1 MKP**

**5  $\mu$ F  $\pm$  5 %**

**EN 60252**

**5**

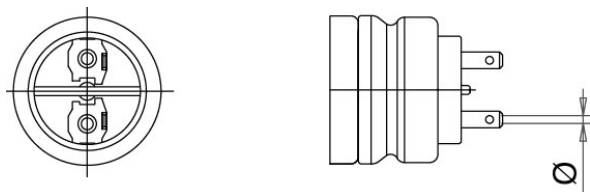


| GENERAL DATA | SIZES TABLES | FAST-ON   | BIPOLAR CABLE | DRAWINGS  |
|--------------|--------------|-----------|---------------|-----------|
| <b>44</b>    | <b>45</b>    | <b>46</b> | <b>48</b>     | <b>57</b> |

**General technical data:**

| Reference standards                                                                | IEC 252: 1993      EN 60252: 1994                                                                                                                         |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN60252 approval                                                                   | <b>VDE Testing and Certification Institute</b>                                                                                                            |
| UL810 Recognised Component Mark                                                    | <b>Approved up 500 Vac (diameter <math>\geq</math> 30 mm)</b><br>Standard Marking: 250 Vac 60 Hz. -25/+70 °C. Please contact us for other kind of marking |
| Great Wall Approval (China)                                                        | Approved                                                                                                                                                  |
| CSA CAN/CSA – C22.2 n.14-95<br>CSA Std. C22.2 No 190 - M1985                       | Vac max 600V – Diameters 50 – 55 - 60 mm<br>Vac max 240V – Diameters 30 – 35 – 40 – 45 mm                                                                 |
| Operating class:                                                                   | <b>CLASS B - 10.000 H , 420 Volt a.c.</b><br><b>CLASS C - 3.000 H , 470 Volt a.c.</b>                                                                     |
| Type of working:                                                                   | Continuous                                                                                                                                                |
| Operating Min. / Max Temperature:                                                  | - 25 / 85 °C                                                                                                                                              |
| Storage:                                                                           | - 40 / 90 °C                                                                                                                                              |
| Rated Voltage Vn (a.c.):                                                           | 500 Volt a.c.                                                                                                                                             |
| Rated Frequency (Hz)                                                               | 50 - 60 Hz                                                                                                                                                |
| Voltage rise/fall time (max):                                                      | 15 Volt / $\mu$ s                                                                                                                                         |
| Maximum Permissible Voltage:                                                       | 1.10 x Rated Voltage                                                                                                                                      |
| Maximum Permissible Current:                                                       | 1.30 x Rated Current                                                                                                                                      |
| Dissipation factor Tg $\delta$ :                                                   | 20 x 10 <sup>-4</sup> at 20°C, 50 Hz                                                                                                                      |
| Safety class:                                                                      | P2                                                                                                                                                        |
| Maximum altitude:                                                                  | 2000 m                                                                                                                                                    |
| Capacitance tolerance (standard):                                                  | $\pm$ 5 %                                                                                                                                                 |
| Mounting:                                                                          | Any position                                                                                                                                              |
| Case:                                                                              | Aluminium                                                                                                                                                 |
| Disk:                                                                              | Thermoplastic polymer V2 (UL94)                                                                                                                           |
| Filling resin:                                                                     | Polyurethane                                                                                                                                              |
| Dielectric:                                                                        | Polypropylene                                                                                                                                             |
| Plates:                                                                            | Self-healing metal layer                                                                                                                                  |
| Voltage Test Terminal to terminal:                                                 | 2 Vn for 2 s                                                                                                                                              |
| Voltage Test Terminal to case:                                                     | 2000 Volt for 2 s                                                                                                                                         |
| Leakage – Clearance in air between parts under voltage:                            | $\geq$ 5mm                                                                                                                                                |
| Leakage – Clearance in air between parts under voltage and accessible metal parts: | $\geq$ 6mm                                                                                                                                                |
| Max Tightening torque:                                                             | 5 Nm (M8) – 10 Nm (M12)                                                                                                                                   |

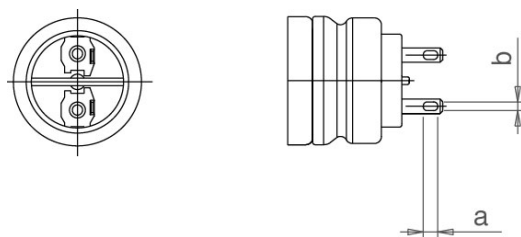
| Rated<br>Cap. | Rated<br>Current | Max<br>dv/dt | FAST-ON        |              |              | BIPOLAR CABLE  |              |              | Weight |
|---------------|------------------|--------------|----------------|--------------|--------------|----------------|--------------|--------------|--------|
|               |                  |              | Diameter<br>mm | Height<br>mm | Pack.<br>pcs | Diameter<br>mm | Height<br>mm | Pack.<br>pcs |        |
| 1.0           | 0.15             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 1.5           | 0.22             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 2.0           | 0.29             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 2.5           | 0.37             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 3.0           | 0.44             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 3,15          | 0.47             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 3.5           | 0.52             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 4.0           | 0.59             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 4.5           | 0.66             | 15           | 30             | 48           | 115          | 30             | 70           | 36           | 36     |
| 5.0           | 0.74             | 15           | 35             | 48           | 86           | 35             | 70           | 36           | 49     |
| 6.0           | 0.88             | 15           | 35             | 48           | 86           | 35             | 70           | 36           | 49     |
| 7.0           | 1.03             | 15           | 35             | 48           | 86           | 35             | 70           | 36           | 49     |
| 8.0           | 1.18             | 15           | 30             | 78           | 115          | 30             | 100          | 36           | 58     |
| 10.0          | 1.47             | 15           | 30             | 78           | 115          | 30             | 100          | 36           | 58     |
| 12.0          | 1.77             | 15           | 35             | 78           | 86           | 35             | 100          | 36           | 79     |
| 12.5          | 1.84             | 15           | 35             | 78           | 86           | 35             | 100          | 36           | 79     |
| 14.0          | 2.07             | 15           | 35             | 78           | 86           | 35             | 100          | 36           | 79     |
| 16.0          | 2.36             | 15           | 35             | 78           | 86           | 35             | 100          | 36           | 79     |
| 18.0          | 2.66             | 15           | 40             | 78           | 62           | 40             | 100          | 25           | 103    |
| 20.0          | 2.95             | 15           | 40             | 78           | 62           | 40             | 100          | 25           | 103    |
| 22.0          | 3.25             | 15           | 40             | 78           | 62           | 40             | 100          | 25           | 103    |
| 25.0          | 3.69             | 15           | 45             | 78           | 50           | 45             | 100          | 25           | 130    |
| 30.0          | 4.43             | 15           | 45             | 78           | 50           | 45             | 100          | 25           | 130    |
| 31.5          | 4.65             | 15           | 45             | 98           | 50           | 45             | 100          | 25           | 165    |
| 35.0          | 5.16             | 15           | 45             | 98           | 50           | 45             | 120          | 25           | 165    |
| 40.0          | 5.90             | 15           | 45             | 98           | 50           | 45             | 120          | 25           | 165    |
| 45.0          | 6.64             | 15           | 45             | 133          | 50           | 45             | 155          | 25           | 222    |
| 50.0          | 7.38             | 15           | 50             | 133          | 40           | 50             | 155          | 16           | 274    |
| 55.0          | 8.12             | 15           | 50             | 133          | 40           | 50             | 155          | 16           | 274    |
| 60.0          | 8.85             | 15           | 50             | 133          | 40           | 50             | 155          | 16           | 274    |
| 65.0          | 9.60             | 15           | 55             | 133          | 32           | 55             | 155          | 16           | 332    |
| 70.0          | 10.30            | 15           | 55             | 133          | 32           | 55             | 155          | 16           | 332    |
| 75.0          | 11.00            | 15           | 60             | 133          | 28           | 60             | 155          | 16           | 395    |
| 80.0          | 11.80            | 15           | 60             | 133          | 28           | 60             | 155          | 16           | 395    |

**C.87. SERIES Fast-on 2.8mm with Hole**


| TYPE OF TERMINAL  | FAST-ON 2.8 WITH HOLE         |
|-------------------|-------------------------------|
| Execution:        | Standard                      |
| Protection degree | IP00                          |
| Wire material     | Steel tinned by electrolysis  |
| Length            | 2.8 mm                        |
| Thickness         | 0.8 mm                        |
| Diameter hole     | 1.3                           |
| Standard          | DIN46244                      |
| Bolt M8           | To diameter (ϕ) 45mm included |
| Bolt M12          | Over diameter (ϕ) 45mm        |

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metal bolt execution (ϕ) ≤ 45mm | C | 8 | 7 | - | - | F | 1 | - | - | - | - | A | A | - | - |
| Metal bolt execution (ϕ) > 45mm | C | 8 | 7 | - | - | G | 1 | - | - | - | - | A | A | - | - |

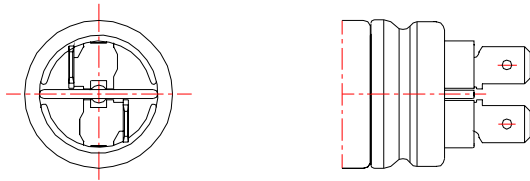
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic execution | C | 8 | 7 | - | - | E | 1 | - | - | - | - | A | A | - | - |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**C.87. SERIES Fast-on 2.8 mm with Slot**


| TYPE OF TERMINAL  | FAST ON 2.8 WITH SLOT (SOLDERING TERMINAL) |
|-------------------|--------------------------------------------|
| Execution:        | On request                                 |
| Protection degree | IP00                                       |
| Wire material     | Steel tinned by electrolysis               |
| Length            | 2.8 mm                                     |
| Thickness         | 0.8 mm                                     |
| Slot a x b        | 2.8 x 1.7                                  |
| Standard          | DIN46244                                   |
| Bolt M8           | To diameter (ϕ) 45mm included              |
| Bolt M12          | Over diameter (ϕ) 45mm                     |

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metal bolt execution (ϕ) ≤ 45mm | C | 8 | 7 | - | - | F | 4 | - | - | - | - | A | A | - | - |
| Metal bolt execution (ϕ) > 45mm | C | 8 | 7 | - | - | G | 4 | - | - | - | - | A | A | - | - |

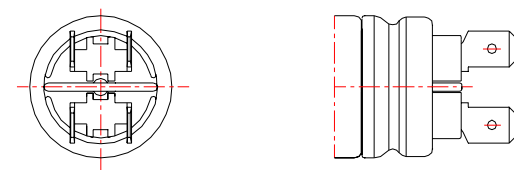
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic execution | C | 8 | 7 | - | - | E | 4 | - | - | - | - | A | A | - | - |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**C.87. SERIES Single Fast-on 6.3 mm**


| TYPE OF TERMINAL  | FAST-ON 6.3 (SINGLE)          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Execution:        | Standard                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protection degree | IP00                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wire material     | Steel tinned by electricity   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminal          | Fast-on                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Length            | 6.3 mm                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thickness         | 0.8 mm                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard          | DIN46244                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolt M8           | To diameter (φ) 45mm included |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolt M12          | Over diameter (φ) 45mm        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metal bolt execution (φ) ≤ 45mm | C | 8 | 7 | - | - | F | 2 | - | - | - | - | A | A | - | - |
| Metal bolt execution (φ) > 45mm | C | 8 | 7 | - | - | G | 2 | - | - | - | - | A | A | - | - |

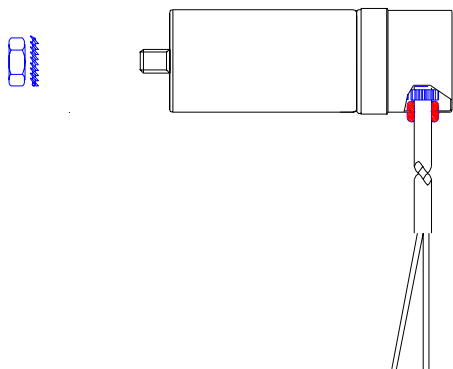
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic execution | C | 8 | 7 | - | - | E | 2 | - | - | - | - | A | A | - | - |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**C.87. SERIES Double Fast-on 6.3 mm**


| TYPE OF TERMINAL  | FAST ON 6.3 (DOUBLE)          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Execution:        | Standard                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protection degree | IP00                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wire material     | Steel tinned by electricity   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminal          | Fast on                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Length            | 6.3 mm                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thickness         | 0.8 mm                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard          | DIN46244                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolt M8           | To diameter (φ) 45mm included |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolt M12          | Over diameter (φ) 45mm        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metal bolt execution (φ) ≤ 45mm | C | 8 | 7 | - | - | F | 3 | - | - | - | - | A | A | - | - |
| Metal bolt execution (φ) > 45mm | C | 8 | 7 | - | - | G | 3 | - | - | - | - | A | A | - | - |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic execution | C | 8 | 7 | - | - | E | 3 | - | - | - | - | A | A | - | - |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**C.87. SERIES Bipolar Cable Standard**


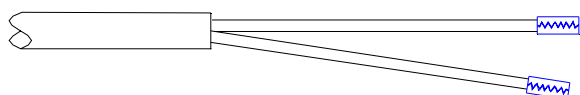
| TYPE                  | FLEXIBLE BIPOLAR CABLE FOR HIGH TEMPERATURE |
|-----------------------|---------------------------------------------|
| Execution:            | Standard                                    |
| Protection degree     | IP55                                        |
| Cable                 | PVC (Polyvinyl chloride)                    |
| Designation           | H05V2V2-F                                   |
| Standard              | CEI 20 – 20                                 |
| Operating temperature | 90 °C                                       |
| Conductor             | Flexible soft copper wire                   |
| Insulating            | Polyvinyl chloride TI3                      |
| Sleeve                | Polyvinyl chloride TM3                      |
| Conductor colour      | Blue / Brown                                |
| Cable unsheathing     | 40 mm                                       |
| Cable stripping       | 8 mm                                        |
| Finishing             | Tinning                                     |
| Bolt M8 (F)           | To diameter (φ) 45mm included               |
| Bolt M12 (G)          | Over diameter (φ) 45mm                      |

| Metal bolt execution | C | 8 | 7 | - | - | F/G |   | - | - | - | - |   |   | - | - |
|----------------------|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|
| Total length         |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   |
| L = 150 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | D |   |   |
| L = 150 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | E |   |   |
| L = 250 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | F |   |   |
| L = 300 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | G |   |   |
| L = 350 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | H |   |   |
| L = 400 mm           |   |   |   |   |   | F/G | F |   |   |   |   | L | I |   |   |

| No metal bolt execution | C | 8 | 7 | - | - | E |   | - | - | - | - |   |   | - | - |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total length            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| L = 150 mm              |   |   |   |   |   | E | F |   |   |   |   | L | D |   |   |
| L = 150 mm              |   |   |   |   |   | E | F |   |   |   |   | L | E |   |   |
| L = 250 mm              |   |   |   |   |   | E | F |   |   |   |   | L | F |   |   |
| L = 300 mm              |   |   |   |   |   | E | F |   |   |   |   | L | G |   |   |
| L = 350 mm              |   |   |   |   |   | E | F |   |   |   |   | L | H |   |   |
| L = 400 mm              |   |   |   |   |   | E | F |   |   |   |   | L | I |   |   |

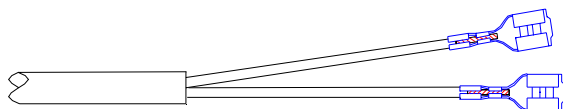
**Special Executions.** For applications requiring a specific termination, KEMET can supply a full range of capacitors with a bipolar cable provided with terminals. The material used (Brass – Cu Zn) provided with tinning (Gal Sn) defines connection quality and reliability also in case of high temperatures (155°C).

### C.87. SERIES Bipolar Cable Pin Terminals

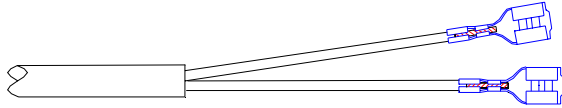


| TYPE                                        | BIPOLAR CABLE WITH PIN TERMINAL |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Execution:</b>                           | <b>Special</b>                  |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Point material                              | Cu Zn gal Sn                    |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Material thickness                          | 0.25 mm                         |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Terminal length                             | 7 mm                            |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Standard version S = 300mm                  |                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metal bolt execution ( $\phi$ ) $\leq$ 45mm | C                               | 8 | 7 | - | - | F | J | - | - | - | - | - | - | - |
| Metal bolt execution ( $\phi$ ) $>$ 45mm    | C                               | 8 | 7 | - | - | G | J | - | - | - | - | - | - | - |
| Basic execution                             | C                               | 8 | 7 | - | - | E | J | - | - | - | - | - | - | - |

### C.87. SERIES Bipolar Cable Straight Fast-on 6.3 mm

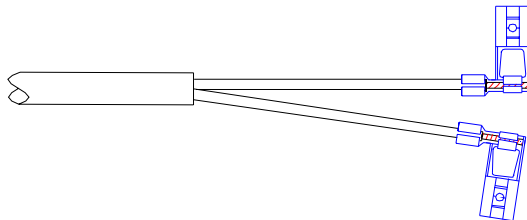


| TYPE                                        | BIPOLAR CABLE WITH STRAIGHT FAST-ON 6.3 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Execution:</b>                           | <b>Special</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fast – on material                          | Cu Zn gal Sn                            |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Material thickness                          | 0.42 mm                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Terminal length                             | 19.3 mm                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Standard version S = 300mm                  |                                         |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metal bolt execution ( $\phi$ ) $\leq$ 45mm | C                                       | 8 | 7 | - | - | F | H | - | - | - | - | - | - | - |
| Metal bolt execution ( $\phi$ ) $>$ 45mm    | C                                       | 8 | 7 | - | - | G | H | - | - | - | - | - | - | - |
| Basic execution                             | C                                       | 8 | 7 | - | - | E | H | - | - | - | - | - | - | - |

**C.87. SERIES Bipolar Cable Straight Female Fast-on 4.8 mm**


|                    |                                                       |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|-------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>TYPE</b>        | <b>BIPOLAR CABLE WITH STRAIGHT FEMALE FAST-ON 4.8</b> |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Execution:</b>  | <b>Special</b>                                        |  |  |  |  |  |  |  |  |  |  |  |  |
| Fast-on material   | Cu Zn gal Sn                                          |  |  |  |  |  |  |  |  |  |  |  |  |
| Material thickness | 0.35 mm                                               |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminal length    | 15.6 mm                                               |  |  |  |  |  |  |  |  |  |  |  |  |

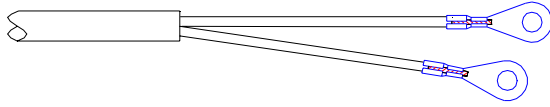
|                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Standard version S = 300mm</b>           |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metal bolt execution ( $\phi$ ) $\leq$ 45mm | C | 8 | 7 | - | - | F | G | - | - | - | - | - | - |
| Metal bolt execution ( $\phi$ ) $>$ 45mm    | C | 8 | 7 | - | - | G | G | - | - | - | - | - | - |
| Basic execution                             | C | 8 | 7 | - | - | E | G | - | - | - | - | - | - |

**C.87. SERIES Bipolar Cable Flag Female Fast-on 4.8 mm**


|                    |                                                   |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>TYPE</b>        | <b>BIPOLAR CABLE WITH FEMALE FLAG FAST-ON 4.8</b> |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Execution:</b>  | <b>Special</b>                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| Fast-on material   | Cu Zn gal Sn                                      |  |  |  |  |  |  |  |  |  |  |  |  |
| Material thickness | 0.35 mm                                           |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminal length    | 12.5 mm                                           |  |  |  |  |  |  |  |  |  |  |  |  |

|                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Standard version S = 300mm</b>           |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metal bolt execution ( $\phi$ ) $\leq$ 45mm | C | 8 | 7 | - | - | F | L | - | - | - | - | - | - |
| Metal bolt execution ( $\phi$ ) $>$ 45mm    | C | 8 | 7 | - | - | G | L | - | - | - | - | - | - |
| Basic execution                             | C | 8 | 7 | - | - | E | L | - | - | - | - | - | - |

**C.87. SERIES Bipolar Cable Ring Terminal M4**



|                    |                                            |
|--------------------|--------------------------------------------|
| <b>TYPE</b>        | <b>BIPOLAR CABLE WITH RING TERMINAL M4</b> |
| <b>Execution:</b>  | <b>Special</b>                             |
| Terminal material  | Cu Zn gal Sn                               |
| Material thickness | 0.40 mm                                    |
| Ring diameter      | 4 mm                                       |

|                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Standard version S = 300mm</b>           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metal bolt execution ( $\phi$ ) $\leq$ 45mm | C | 8 | 7 | - | - | F | I | - | - | - | - | A | A | - | - |
| Metal bolt execution ( $\phi$ ) $>$ 45mm    | C | 8 | 7 | - | - | G | I | - | - | - | - | A | A | - | - |
| Basic execution                             | C | 8 | 7 | - | - | E | I | - | - | - | - | A | A | - | - |

## C.87 SERIES – OPTIONS

| Rated Cap.<br><br>μF | C.87/8              |                |           |                | C.87/0              |                |           |                |
|----------------------|---------------------|----------------|-----------|----------------|---------------------|----------------|-----------|----------------|
|                      | Standard dimensions |                | Options   |                | Standard dimensions |                | Options   |                |
|                      | DxH<br>mm           | Package<br>pcs | DxH<br>mm | Package<br>pcs | DxH<br>mm           | Package<br>pcs | DxH<br>mm | Package<br>pcs |
| 1.0                  | 30x48               | 115            | 25x48     | 162            | 30x48               | 115            | 25x48     | 162            |
| 1.5                  | 30x48               | 115            | 25x48     | 162            | 30x48               | 115            | 25x48     | 162            |
| 2.0                  | 30x48               | 115            | 25x48     | 162            | 30x48               | 115            | 25x48     | 162            |
| 2.5                  | 30x48               | 115            | 25x48     | 162            | 30x48               | 115            | 25x48     | 162            |
| 3.0                  | 30x48               | 115            | 25x48     | 162            | 30x48               | 115            | 25x60     | 162            |
| 3.15                 | 30x48               | 115            |           |                | 30x48               | 115            |           |                |
| 3.5                  | 35x48               | 86             | 30x60     | 115            | 30x48               | 115            | 25x60     | 162            |
| 4.0                  | 35x48               | 86             | 30x60     | 115            | 30x48               | 115            | 25x60     | 162            |
| 4.5                  | 35x48               | 86             | 30x60     | 115            | 30x48               | 115            | 25x78     | 162            |
| 5.0                  | 35x48               | 86             | 30x60     | 115            | 35x48               | 86             | 25x78     | 162            |
| 6.0                  | 30x78               | 115            | 35x60     | 86             | 35x48               | 86             | 25x78     | 162            |
| 7.0                  | 30x78               | 115            | 35x60     | 86             | 35x48               | 86             | 30x78     | 115            |
| 8.0                  | 30x78               | 115            | 35x60     | 86             | 30x78               | 115            | 35x60     | 86             |
| 10.0                 | 35x78               | 86             |           |                | 30x78               | 115            | 35x60     | 86             |
| 12.0                 | 35x78               | 86             |           |                | 35x78               | 86             |           |                |
| 12.5                 | 35x78               | 86             |           |                | 35x78               | 86             |           |                |
| 14.0                 | 40x78               | 62             | 35x98     | 86             | 35x78               | 86             |           |                |
| 16.0                 | 40x78               | 62             | 35x98     | 86             | 35x78               | 86             |           |                |
| 18.0                 | 45x78               | 50             | 40x98     | 62             | 40x78               | 62             |           |                |
| 20.0                 | 45x78               | 50             | 40x98     | 62             | 40x78               | 62             |           |                |
| 22.0                 | 45x78               | 50             | 40x98     | 62             | 40x78               | 62             |           |                |
| 25.0                 | 45x98               | 50             |           |                | 45x78               | 50             | 40x98     | 62             |
| 30.0                 | 45x98               | 50             |           |                | 45x78               | 50             | 40x98     | 62             |
| 31.5                 | 45x133              | 50             |           |                | 45x98               | 50             |           |                |
| 35.0                 | 45x133              | 50             | 50x98     | 40             | 45x98               | 50             |           |                |
| 36.0                 | 45x133              | 50             | 50x98     | 40             | 45x98               | 50             |           |                |
| 40.0                 | 45x133              | 50             |           | 40             | 45x98               | 50             |           |                |
| 45.0                 | 50x133              | 40             | 55x98     | 32             | 45x133              | 50             | 55x98     | 32             |
| 50.0                 | 50x133              | 40             | 60x98     | 28             | 50x133              | 40             | 60x98     | 28             |
| 55.0                 | 50x133              | 40             | 60x98     | 28             | 50x133              | 40             | 60x98     | 28             |
| 60.0                 | 50x133              | 40             | 60x98     | 28             | 50x133              | 40             | 60x98     | 28             |
| 65.0                 |                     |                |           |                | 55x133              | 32             |           |                |
| 70.0                 |                     |                |           |                | 55x133              | 32             |           |                |
| 75.0                 |                     |                |           |                | 60x133              | 28             |           |                |
| 80.0                 |                     |                |           |                | 60x133              | 28             |           |                |



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Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

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**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331