



### FEATURES

Small size - High voltage – High Capacitance

### APPLICATIONS

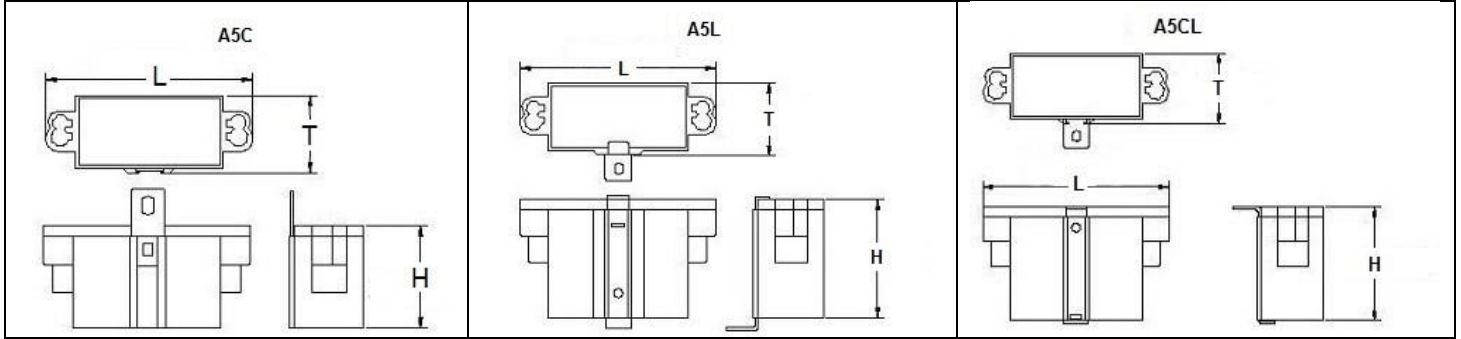
Motor Run

|                                                                 |             |                                                                                                                                                                                                                             |            |            |            |                                                                                                                                           |            |            |  |
|-----------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--|
| <b>Operating Temperature Range</b>                              |             | <b>-25°C to +85°C</b>                                                                                                                                                                                                       |            |            |            |                                                                                                                                           |            |            |  |
| <b>Capacitance Tolerance</b>                                    |             | <b>±10% at 1 kHz, 25°C</b>                                                                                                                                                                                                  |            |            |            |                                                                                                                                           |            |            |  |
| <b>AC Voltage</b>                                               | <b>70°C</b> | <b>250</b>                                                                                                                                                                                                                  | <b>275</b> | <b>300</b> | <b>350</b> | <b>370</b>                                                                                                                                | <b>400</b> | <b>450</b> |  |
|                                                                 | <b>85°C</b> | <b>200</b>                                                                                                                                                                                                                  | <b>220</b> | <b>250</b> | <b>280</b> | <b>320</b>                                                                                                                                | <b>320</b> | <b>360</b> |  |
| <b>Maximum Over voltage</b>                                     |             | <b>110% of rated VAC</b>                                                                                                                                                                                                    |            |            |            |                                                                                                                                           |            |            |  |
| <b>Dissipation Factor (MAX)<br/>Tan δ at 1 kHz<br/>and 25°C</b> |             | <b>1.0%</b>                                                                                                                                                                                                                 |            |            |            |                                                                                                                                           |            |            |  |
| <b>Insulation Resistance</b>                                    |             | <b>Terminal to Terminal</b>                                                                                                                                                                                                 |            |            |            | <b>Terminal to Case</b>                                                                                                                   |            |            |  |
|                                                                 |             | 1000 MΩxuF<br>After 1 minute of 100VDC applied<br>between the terminals at 25°C                                                                                                                                             |            |            |            | 2000 MΩxuF<br>After 1 minute of 100VDC applied<br>between the terminals at 25°C                                                           |            |            |  |
| <b>Self Inductance</b>                                          |             | <1 nano-Henry per mm of lead spacing and lead length                                                                                                                                                                        |            |            |            |                                                                                                                                           |            |            |  |
| <b>Long Term Stability</b>                                      |             | Capacitance variation <1% MAX after 2 years                                                                                                                                                                                 |            |            |            |                                                                                                                                           |            |            |  |
| <b>Dielectric Strength</b>                                      |             | <b>Terminal to Terminal</b>                                                                                                                                                                                                 |            |            |            | <b>Terminal to Case</b>                                                                                                                   |            |            |  |
|                                                                 |             | 175% of VAC applied for 60<br>Seconds and 25°C                                                                                                                                                                              |            |            |            | 200% of VAC+1000VAC or<br>2KVAC at 50/60 Hz applied<br>between the terminals and case for<br>60 Seconds and 25°C, whichever is<br>greater |            |            |  |
| <b>Agency certifications</b>                                    |             | UL – E144575                                                                                                                                                                                                                |            |            |            |                                                                                                                                           |            |            |  |
|                                                                 |             | C22.2 No. 190-M1985                                                                                                                                                                                                         |            |            |            |                                                                                                                                           |            |            |  |
| <b>Terminations</b>                                             |             | <p><b>Connection:</b><br/>Insert stripped wire into<br/>contact hole</p> <p><b>Removal:</b><br/>Push probe or pin into the<br/>mounting hole and press down<br/>the contact slightly to release<br/>and remove the wire</p> |            |            |            |                                                                                                                                           |            |            |  |

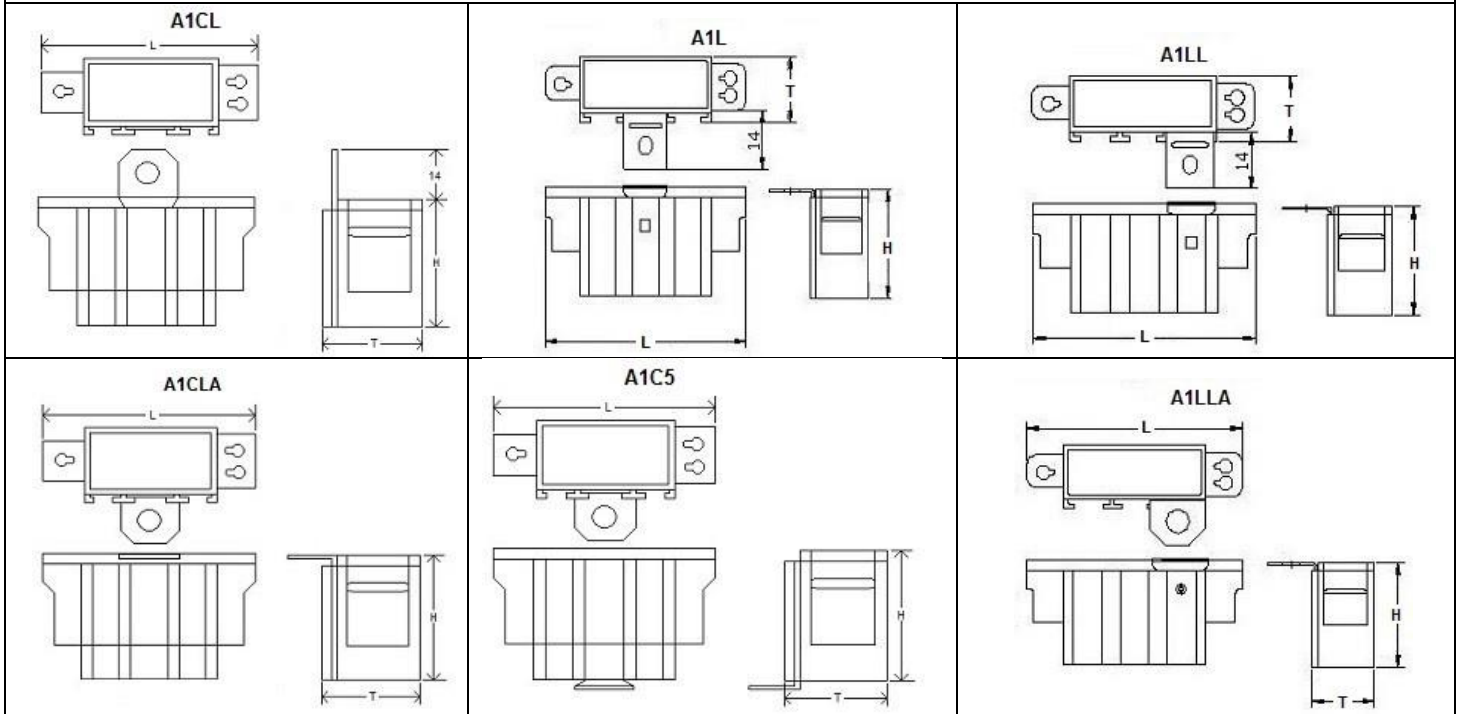


### Mounting lead Options

#### Case Code B8



#### Case Code A3



# QPC

## Motor Run

| VAC | Capacitance (µF) | IC PART NUMBER                 | Dims LxHxT (mm) | Case Code |
|-----|------------------|--------------------------------|-----------------|-----------|
| 250 | 1                | <a href="#">105QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 1.2              | <a href="#">125QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 1.5              | <a href="#">155QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 2                | <a href="#">205QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 2.5              | <a href="#">255QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 3                | <a href="#">305QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 3.5              | <a href="#">355QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 4                | <a href="#">405QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 5                | <a href="#">505QPC250KA3#</a>  | 46x24x13        | A3        |
| 250 | 5                | <a href="#">505QPC250KB8#</a>  | 53x30x22        | B8        |
| 250 | 6                | <a href="#">605QPC250KB5#</a>  | 52x26x18        | B5        |
| 250 | 6                | <a href="#">605QPC250KB5B#</a> | 52x26x24        | B5B       |
| 250 | 6                | <a href="#">605QPC250KB8#</a>  | 53x30x22        | B8        |
| 250 | 7                | <a href="#">705QPC250KB5#</a>  | 52x26x18        | B5        |
| 250 | 7                | <a href="#">705QPC250KB5B#</a> | 52x26x24        | B5B       |
| 250 | 7                | <a href="#">705QPC250KB8#</a>  | 53x30x22        | B8        |
| 250 | 8                | <a href="#">805QPC250KB8#</a>  | 53x30x22        | B8        |
| 250 | 9                | <a href="#">905QPC250KB8#</a>  | 53x30x22        | B8        |
| 250 | 10               | <a href="#">106QPC250KB8#</a>  | 53x30x22        | B8        |
| 275 | 0.9              | <a href="#">904QPC275KA3#</a>  | 46x24x13        | A3        |
| 275 | 3                | <a href="#">305QPC275KA3#</a>  | 46x24x13        | A3        |
| 275 | 5                | <a href="#">505QPC275KB8#</a>  | 53x30x22        | B8        |

| VAC | Capacitance (µF) | IC PART NUMBER                | Dims LxHxT (mm) | Case Code |
|-----|------------------|-------------------------------|-----------------|-----------|
| 275 | 5.5              | <a href="#">555QPC275KA3#</a> | 52x27x18        | A3        |
| 275 | 8                | <a href="#">805QPC275KB8#</a> | 53x30x22        | B8        |
| 300 | 0.8              | <a href="#">804QPC300KA3#</a> | 46x24x22        | A3        |
| 300 | 2.5              | <a href="#">255QPC300KA3#</a> | 46x24x22        | A3        |
| 300 | 4                | <a href="#">405QPC300KB8#</a> | 53x30x22        | B8        |
| 300 | 7                | <a href="#">705QPC300KB8#</a> | 53x30x22        | B8        |
| 300 | 7                | <a href="#">705QPC300KB8#</a> | 53x30x22        | B8        |
| 350 | 0.6              | <a href="#">604QPC350KA3#</a> | 46x24x13        | A3        |
| 350 | 1.8              | <a href="#">185QPC350KA3#</a> | 46x24x13        | A3        |
| 350 | 3.5              | <a href="#">355QPC350KB8#</a> | 53x30x22        | B8        |
| 350 | 5.5              | <a href="#">555QPC350KA3#</a> | 53x30x22        | A3        |
| 370 | 4                | <a href="#">405QPC370KB8#</a> | 53x30x22        | B8        |
| 370 | 5                | <a href="#">505QPC370KB8#</a> | 53x30x22        | B8        |
| 370 | 6                | <a href="#">605QPC370KB8#</a> | 53x30x22        | B8        |
| 400 | 0.5              | <a href="#">504QPC400KA3#</a> | 46x24x13        | A3        |
| 400 | 1.2              | <a href="#">125QPC400KA3#</a> | 46x24x13        | A3        |
| 400 | 3                | <a href="#">305QPC400KB8#</a> | 53x30x22        | B8        |
| 400 | 4                | <a href="#">405QPC400KB8#</a> | 53x30x22        | B8        |
| 450 | 0.4              | <a href="#">404QPC450KA3#</a> | 46x24x13        | A3        |
| 450 | 1                | <a href="#">105QPC450KA3#</a> | 46x24x13        | A3        |
| 450 | 3.3              | <a href="#">335QPC450KB8#</a> | 53x30x22        | B8        |