

# Product datasheet

## Specifications

### Intelligent Capacitor

#### BIC37-4840

|                             |                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                    | IEC/EN 61921 & GB/T15576-2008                                                                                                                                                         |
| Type                        | New generation box type, Self healing                                                                                                                                                 |
| Power range                 | 40kVAr                                                                                                                                                                                |
| Rated voltage               | 480V ±20%                                                                                                                                                                             |
| Rated frequency             | 50Hz ±10%                                                                                                                                                                             |
| Rated current In            | 47A                                                                                                                                                                                   |
| Connection                  | 3-phase                                                                                                                                                                               |
| Reactance ratio (%)         | 7%                                                                                                                                                                                    |
| Capacitance tolerance       | -5% / +10%                                                                                                                                                                            |
| Measurement tolerance       | Voltage: ≤ ±0.5%(0.8~1.2Un), current: ≤±0.5%(0.2~1.2In)<br>active power: ≤ ±2%, power factor: ≤ ±1%, temperature: ±1°C                                                                |
| Communication interface     | RS485                                                                                                                                                                                 |
| Communication protocol      | Modbus protocol / DL645                                                                                                                                                               |
| Dielectric                  | Metallized polypropylene film with Zn/Al alloy                                                                                                                                        |
| Impregnation                | Non-PCB, biodegradable soft resin                                                                                                                                                     |
| Temperature category        | - 25°C to +55°C (class D)                                                                                                                                                             |
| Max altitude                | 2000 m                                                                                                                                                                                |
| Max relative humidity       | Relative humidity ≤ 50% at 40°C; ≤ 90% at 20°C                                                                                                                                        |
| Maximum permissible current | 1.5 In                                                                                                                                                                                |
| Maximum inrush current      | 200 In                                                                                                                                                                                |
| Statistical life expectancy | > 130,000 Operating hours                                                                                                                                                             |
| Working mode                | Continuous                                                                                                                                                                            |
| Protective function         | Over-voltage protection, under-voltage protection, short-circuit protection, over-current protection, over-harmonic protection, over-temperature protection, drive failure protection |
| Dimension WxDxH             | 150x533x407mm                                                                                                                                                                         |

