

# Product datasheet

## Specifications

### Active Harmonic Filter

### BF3 3P4W 250A 400V cabinet type

BF3-25044LC

|                                 |                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                        | JB/T 11067-2011, DL/T 1216-2013<br>IEC/EN 60439-1, 2014/30/EU, EN 61000-6                                                                                 |
| Type                            | Cabinet                                                                                                                                                   |
| Rated input line voltage        | 400V $\pm 20\%$                                                                                                                                           |
| Frequency (fn)                  | 50Hz $\pm 10\%$                                                                                                                                           |
| Compensation current            | 250A                                                                                                                                                      |
| Power grid structure            | 3P4W                                                                                                                                                      |
| Operating mode                  | Active harmonic filtering / Power factor correction / Load balancing                                                                                      |
| Compensation efficiency         | $\geq 97\%$                                                                                                                                               |
| Harmonic spectrum               | 2nd to 50th harmonics                                                                                                                                     |
| Harmonic compensation selection | 2nd to 50th harmonics all can be selected individually                                                                                                    |
| Protections                     | Over-voltage protection, under-voltage protection, short-circuit protection, over-current protection, over-temperature protection, drive fault protection |
| Parallel operation              | Up to 8 modules (different rated currents capable)                                                                                                        |
| CT requirements                 | 3 CTs required (100/5A ~ 5000/5A, class 0.5)                                                                                                              |
| Power loss                      | Less than 3% of rated power                                                                                                                               |
| Communication interface         | RS485, CAN interface                                                                                                                                      |
| Communication protocol          | Modbus protocol                                                                                                                                           |
| Operation temperature           | -10 ~ 40°C (higher operation temperature allowed with derating)                                                                                           |
| Humidity                        | $\leq 95\%$ non-condensation                                                                                                                              |
| Altitude                        | $\leq 1500\text{m}$ , 1500~3000m (derating 1% per 100m)                                                                                                   |
| Protection class                | IP20 (higher protection class available on request)                                                                                                       |
| Dimension WxHxD                 | 800x2200x800mm                                                                                                                                            |

