

Product designation

Automatic transfer switch controller for 2 power sources and one tie-breaker, three phase control, with LCD display, built-in RS485, expandable ATL800

Product type designation

General characteristics

| | | |
|------------------------------------|-----|--|
| Number of controlled power sources | Nr. | 2 |
| Number of tie-breaker controlled | Nr. | 1 |
| Display | | Backlit LCD graphic display 128x80 pixel |
| Languages | Nr. | 8 |
| Expandability | | 3 expansion slots for EXP... Modules |

AC Power supply

| | | |
|-----------------------------------|--------|-----------|
| Rated supply voltage AC | VAC | 110...240 |
| Operating supply voltage range AC | VAC | 90...264 |
| Rated frequency | Hz | 50/60 |
| Operating frequency range | Hz | 45...66 |
| Immunity time for microbreakings | | |
| | 110VAC | ms ≤40 |
| | 220VAC | ms ≤200 |

Immunity time for microbreakings (with EXP expansions)

| | | | |
|----------------------------|------------------|----------|-------------|
| | 110VAC 220VAC | ms ms | ≤20 ≤100 |
| Power consumption AC (Max) | VA | | 12.5 |

DC Power supply

| | | |
|---|-----|--|
| Rated supply voltage DC | VDC | 12-24-48 |
| Operating supply voltage range DC | VDC | 7.5...57.6 |
| Current consumption Max | mA | 400mA at 12VDC, 220mA at 24VDC, 100mA at 48VDC |
| Maximum power consumption / dissipation | W | 4.8 |

Voltage inputs

| | | |
|--------------------------|------------------------------|-------------------------------|
| Maximum rated voltage Ue | | 100...600VAC L-L (346VAC L-N) |
| Measurement range | V | 50...720VAC L-L (415VAC L-N) |
| Frequency range | Hz | 45...66 |
| Measurement method | | True root mean square (TRMS) |
| Input impedance | phase-phase phase-neutral | >1.10MΩ >0.55MΩ |
| Measuring accuracy | | ±0.25% f.s. ±1 digit |

Wiring mode

Single-phase,
two-phase, three-
phase line with or
without neutral
and balanced
three-phase
system

Digital inputs

| | | |
|-------------------------|-----|----------|
| Number of digital input | Nr. | 8 |
| Type of digital input | | Negative |
| Digital current inputs | mA | ≤8 |
| Low input signal | VDC | ≤2.2 |
| High input signal | VDC | ≥3.4 |
| Input signal delay | ms | ≥50 |

Calendar clock

| | |
|---------------------------------|--------------------------|
| Backup reserve power | Backup capacitor |
| Operating without power voltage | 14 days approximately |

Relay outputs

| | | |
|------------------------|--------|--------------------------------|
| Number of relay output | Nr. | 7 |
| Contact arrangement | | 4 x 1NO-SPST + 3 x C/O-SPDT |
| Electrical life | cycles | 10 ⁵ |
| Mechanical life | cycles | 10 ⁷ |

Interface

| | |
|--|--|
| NFC interf. | Yes |
| Front optical USB communication port | Yes, with CX01 USB dongle (optional) |
| Front optical Wi-Fi communication port | Yes, with CX02 Wi-Fi dongle (optional) |
| USB communication | EXP1010 (optional) |
| RS232 communication | EXP1011 (optional) |
| RS485 communication | Built-in or EXP1012 (optional) |
| Ethernet communication | EXP1013 (optional) |
| Profibus communication | EXP1014 (optional) |
| Communication via Modem | EXP1015 (optional) |

Functions

| | |
|--|-----|
| Number of tie breakers that can be managed | 1 |
| Programmable source type | Yes |
| Closed transition | Yes |
| Non-priority load management | Yes |
| PLC logic | Yes |
| Timer | Yes |
| System layout available on display | 6 |
| Custom system layouts | Yes |
| User alarms | Yes |

| | |
|--|--|
| Limits | Yes |
| Event logging | 250 |
| Real time clock with backup reserve energy | Yes |
| Acoustic alarms | Yes |
| Analogue inputs | EXP1004 (optional) |
| Analogue outputs | EXP1005 (optional) |
| Ambient conditions | |
| Temperature | |
| Operating temperature | |
| | min °C -30 |
| | max °C +70 |
| Storage temperature | |
| | min °C -30 |
| | max °C +80 |
| Relative humidity | % <80% |
| Maximum Pollution degree | 2 |
| Overvoltage category | 3 |
| Measurement category | III |
| Climatic sequence | Z/ABDM (IEC/EN 60068-2-61) |
| Shock resistance | 15g (IEC/EN 60068-2-27) |
| Vibration resistance | 0.7g (IEC/EN 60058-2-6) |
| Housing | |
| Execution | Flush mount |
| Material | Polycarbonate |
| Mounting | Flush mount - panel cut-out 220x160 mm |
| Degree of protection | IP65 on front, IP20 on terminals |
| Dimensions (W x H x D) | mm 240 x 180 x 43.9 |
| Weight | g 1000 |
| ETIM classification | |
| ETIM 8.0 | EC000236 - PLC CPU-module |