



Automatic transfer switch controller for 2 power sources, three phase control, with LCD display, 110... 240VAC supply and 12-24VDC, expandable ATL610

Product designation

Product type designation

General characteristics

| | | |
|------------------------------------|-----|--|
| Number of controlled power sources | Nr. | 2 |
| Display | | Backlit LCD graphic display 128x80 pixel |
| Languages | Nr. | 5 |
| Expandability | | 2 expansion slot 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 | ≤50 |
| | 220VAC | ms | ≤250 |

| | | | |
|--|--------|----|------|
| Immunity time for microbreakings (with EXP expansions) | 110VAC | ms | ≤25 |
| | 220VAC | ms | ≤120 |

| | | |
|----------------------------|----|-----|
| Power consumption AC (Max) | VA | 9.5 |
|----------------------------|----|-----|

DC Power supply

| | | |
|-----------------------------------|-----|----------|
| Rated supply voltage DC | VDC | 12-24 |
| Operating supply voltage range DC | VDC | 7.5...33 |

| | | |
|-------------------------|----|--------------------------------|
| Current consumption Max | mA | 230mA at 12VDC, 120mA at 24VDC |
|-------------------------|----|--------------------------------|

| | | |
|---|---|-----|
| Maximum power consumption / dissipation | W | 2.9 |
|---|---|-----|

Voltage inputs

| | | |
|--------------------------|----|-------------------------------|
| Maximum rated voltage Ue | | 100...480VAC L-L (277VAC L-N) |
| Measurement range | V | 50...576VAC L-L (333VAC L-N) |
| Frequency range | Hz | 45...65 |
| Measurement method | | True root mean square (TRMS) |

| | | |
|--|------------------------------|--|
| Input impedance | phase-phase phase-neutral | >1.0MΩ >0.5MΩ |
| 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. | 6 |
| 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 | | 5 min approximately |
| Relay outputs | | |
| Number of relay output | Nr. | 7 |
| Contact arrangement | | 6 x 1NO-SPST + 1 x C/O-SPDT |
| Electrical life | cycles | 10 ⁵ |
| Mechanical life | cycles | 10 ⁷ |
| Interface | | |
| 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 | | EXP1012 (optional) |
| Ethernet communication | | EXP1013 (optional) |
| Profibus communication | | EXP1014 (optional) |
| Functions | | |
| Programmable source type | | Single-phase, two-phase, three- phase with or without neutral |
| User alarms | | Yes |
| Limits | | Yes |
| Event logging | | 100 |
| Real time clock with backup reserve energy | | Yes |

Ambient conditions

Temperature

Operating temperature

| | | |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +70 |

Storage temperature

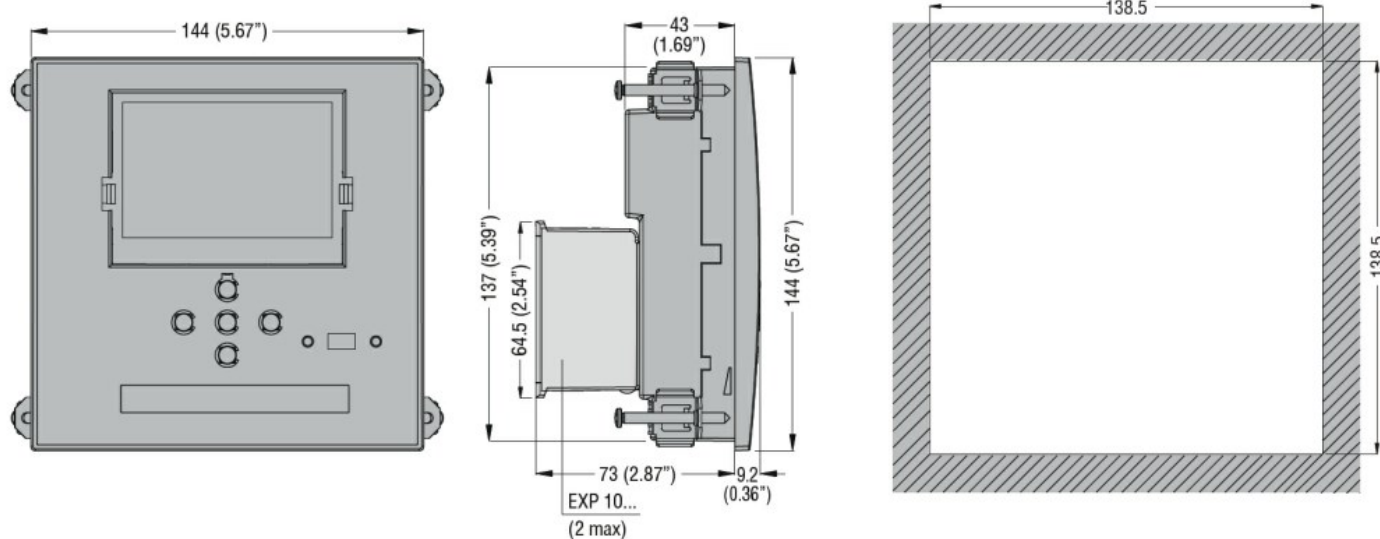
| | | |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +80 |

| | | |
|--------------------------|---|----------------------------|
| 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 60068-2-6) |

Housing

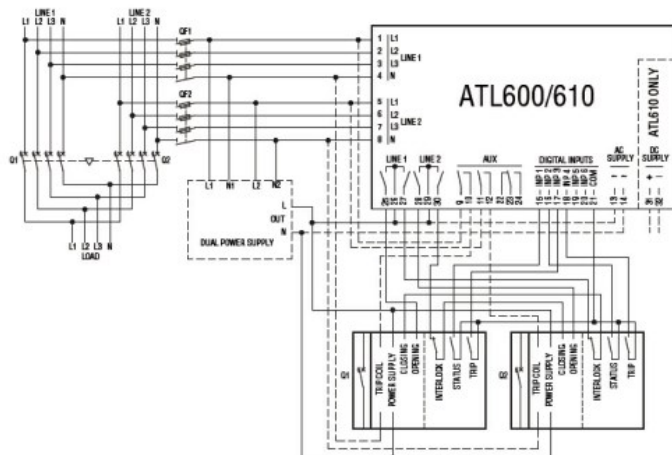
| | | |
|------------------------|----|--|
| Execution | | Flush mount |
| Material | | Polycarbonate |
| Mounting | | Flush mount - panel cut-out 138x138 mm |
| Degree of protection | | IP40 on front, IP65 with optional gasket code EXP8001, IP20 on terminals |
| Dimensions (W x H x D) | mm | 144 x 144 x 52.2 |
| Weight | g | 680 |

Dimensions

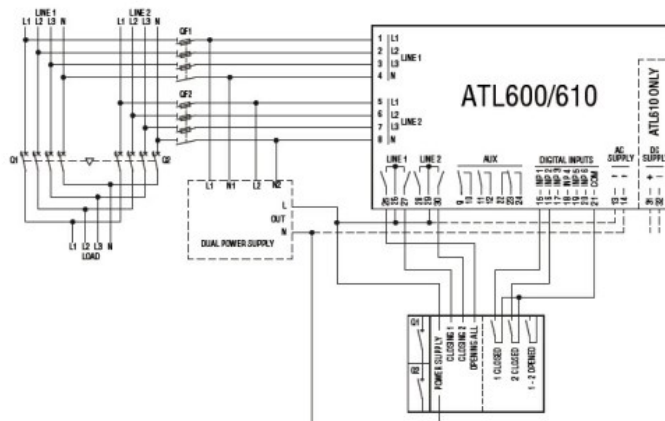


Wiring diagrams

Connection diagrams
Motorised breaker control



Connection diagrams
Motorised changeover switches control



Certifications and compliance

Compliance

CSA C22.2 n°14
IEC/EN 60947-1
IEC/EN 60947-6-1
IEC/EN 61000-6-2
IEC/EN 61000-6-3
UL508

Certificates

cULus
EAC
RCM

ETIM classification

ETIM 8.0

EC000236 - PLC
CPU-module