



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
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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
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Maximum power consumption / dissipation	W	2.9
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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	kΩ kΩ	>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

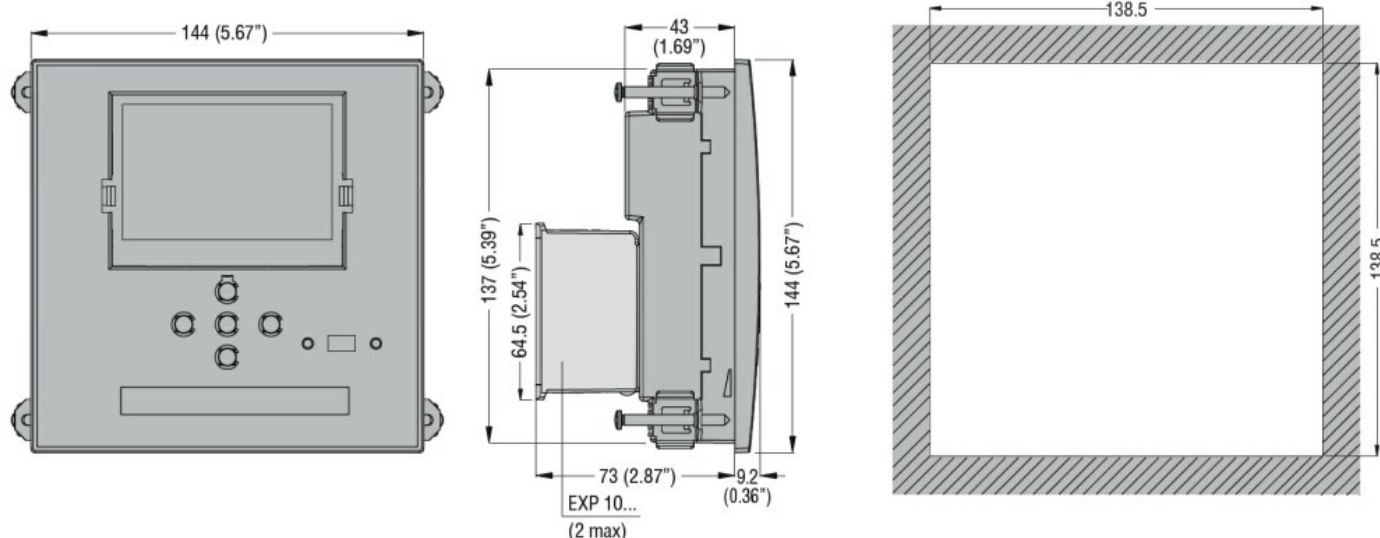
min	°C	-30
max	°C	+80

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

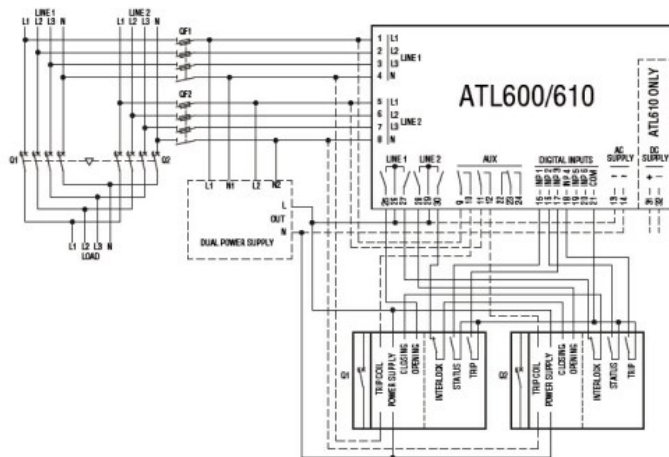
Execution		Flush mount
Material		Polycarbonate
Mounting		Flush mount - panel cut-out 138x138 mm
Degree of protection		IP40 on front, IP65 with optional gasket code EXP8001, IP20 on terminals
Dimensions (W x H x D)	mm	144 x 144 x 52.2
Weight	g	680

Dimensions

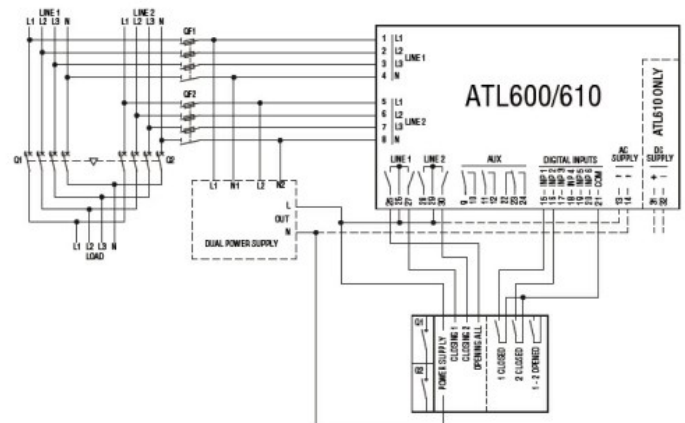


Wiring diagrams

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