Product designation		Automatic transfer switch controller for 2 power sources, three phase control, with LCD display, 110…240VAC supply and 12-24VDC, expandable
Product type designation		ATL610
General characteristics		
Number of controlled power sources	Nr.	2
Display		Backlit LCD graphic display 128x80 pixel
Languages	Nr.	5
Expandability		2 expansion slost 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 expantions)		
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)

ATL610

AUTOMATIC TRANSFER SWITCH CONTROLLER WITH OPTICAL PORT FOR 2 POWER SOURCES (144X144MM/5.7X5.7"), POWER SUPPLY 110...240VAC AND 12/24VDC, EXPANDABLE WITH EXP... EXPANSION MODULES

Input impedance		
	phase-phase	>1.0MΩ
	phase-neutral	>0.5MΩ
Measuring accurancy		±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

ATL610

AUTOMATIC TRANSFER SWITCH CONTROLLER WITH OPTICAL PORT FOR 2 POWER SOURCES (144X144MM/5.7X5.7"), POWER SUPPLY 110...240VAC AND 12/24VDC, EXPANDABLE WITH EXP... EXPANSION MODULES

Ambient conditions

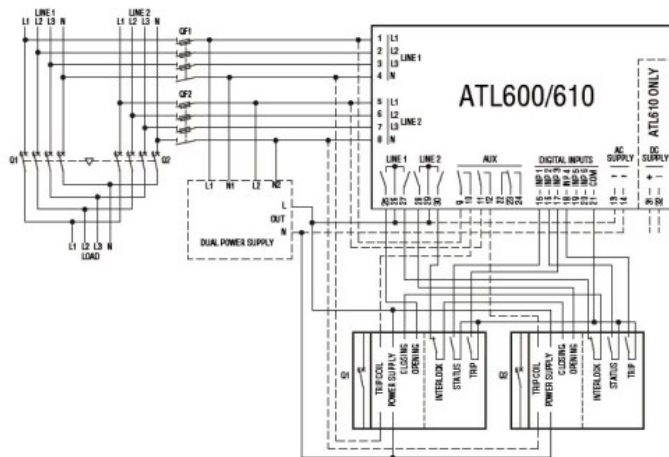| Temperature				
	Operating temperature			
		min	°C	-30
		max	°C	+70
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution degree				2
Overvoltage category				3
Measurement category				III
Climatic sequence				Z/ABDM (IEC/EN 60068-2-61)
Shock resistance				15g (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

ATL610
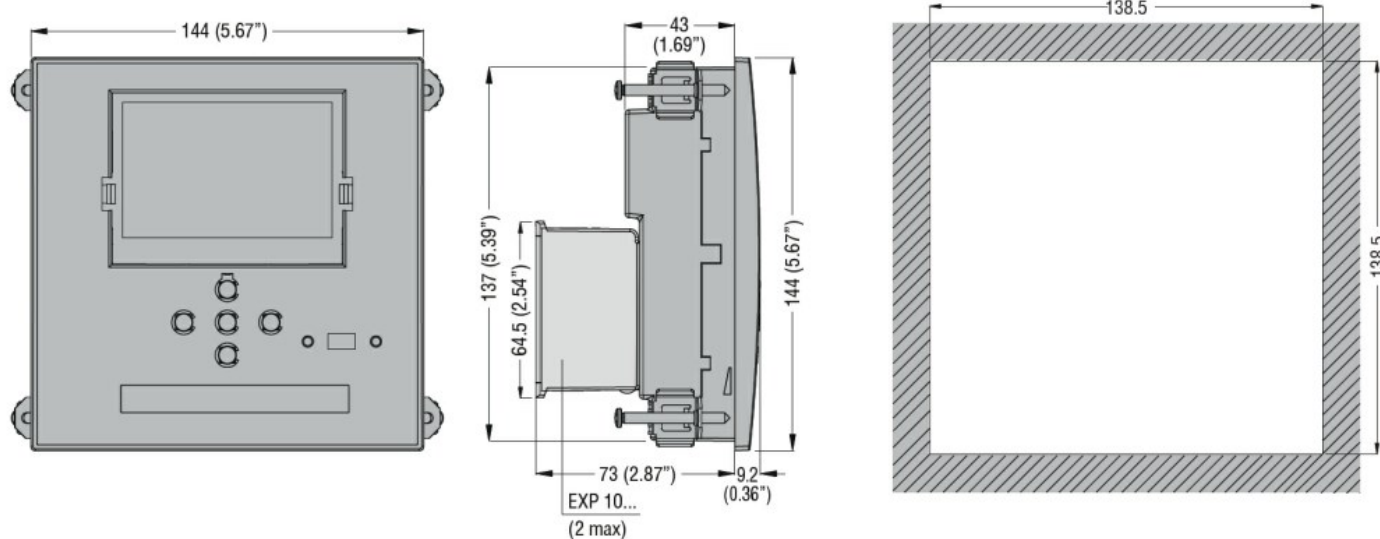
AUTOMATIC TRANSFER SWITCH CONTROLLER WITH OPTICAL PORT FOR 2 POWER SOURCES (144X144MM/5.7X5.7"), POWER SUPPLY 110...240VAC AND 12/24VDC, EXPANDABLE WITH EXP... EXPANSION MODULES
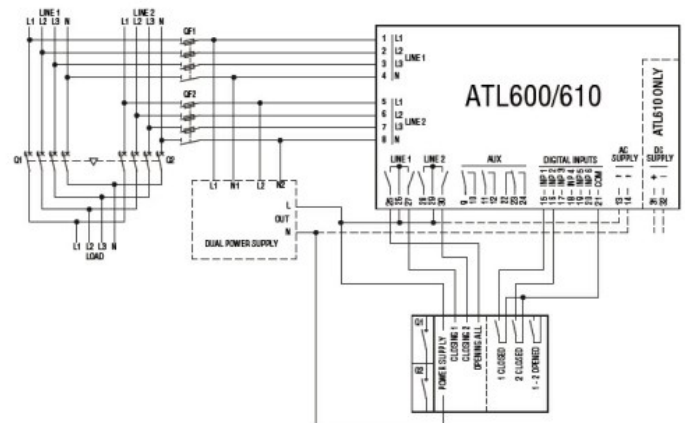
Connection diagrams
Motorised breaker control

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