

Product designation	Automatic transfer switch controller for 2 power sources, three phase control, with LCD display, 110...240VAC supply and 12-24VDC, expandable ATL610		
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 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 220VAC	ms ms	≤50 ≤250
Immunity time for microbreakings (with EXP expansions)	110VAC 220VAC	ms ms	≤25 ≤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	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	105
Mechanical life	cycles	107

#### 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					
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	