ATL800

AUTOMATIC TRANSFER SWITCH CONTROLLER WITH OPTICAL PORT FOR 2 POWER SOURCES AND 1 TIE BREAKER (180X240MM), POWER SUPPLY 110...240VAC AND 12/24/48VDC, EXPANDABLE WITH EXP... EXPANSION MODULES MODULES, BUILT-IN RS485



Product designation			Automatic transfer switch controller for 2 power sources and one tie-breaker, three phase control, with LCD display, built-in RS485, expandable
Product type designation			ATL800
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 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	≤40
	220VAC	ms	≤200
Immunity time for microbreakings (with EXP expantions)			
	110VAC	ms	≤20
	220VAC	ms	≤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

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Measurement method			True root mean square (TRMS)
Input impedance			
	phase-phase		>1.10MΩ
	phase-neutral		>0.55MΩ
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.	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

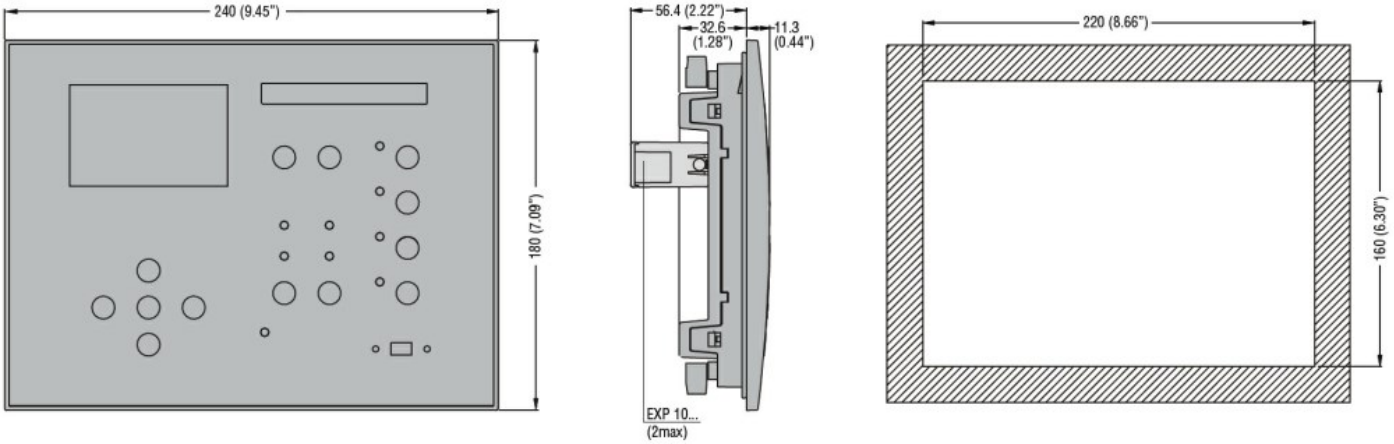
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Closed transition				Yes
Non-priority load management				Yes
PLC logic				Yes
Timer				Yes
System layout available on display				6
Custom system layouts				Yes
User alarms				Yes
Limits				Yes
Event logging				250
Real time clock with backup reserve 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
Dimensions				

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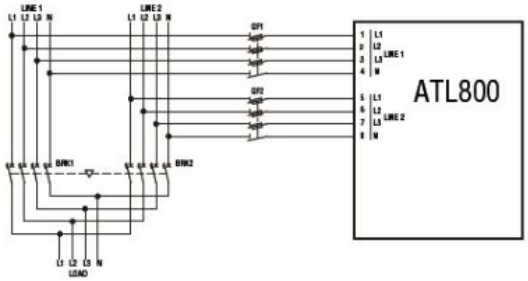
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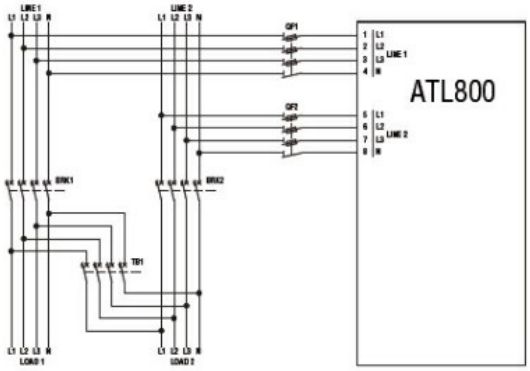


Wiring diagrams

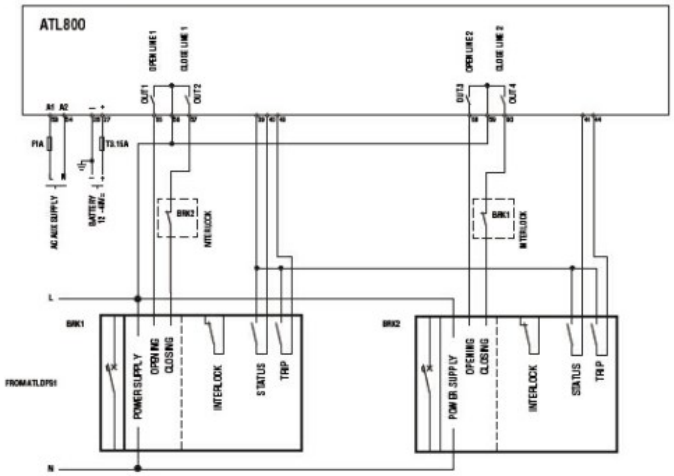
Power connection diagrams
Two breakers



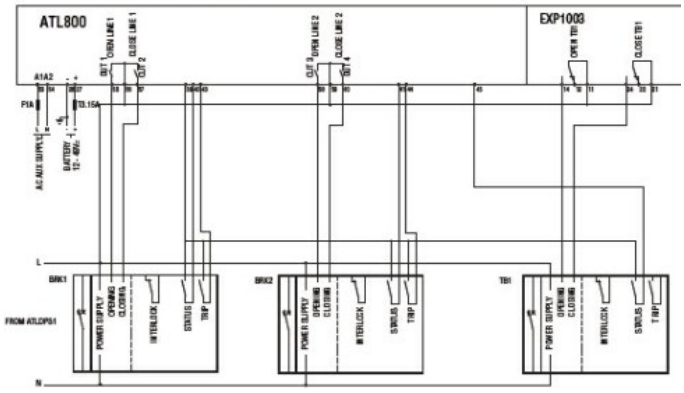
Power connection diagrams
Two breakers and a tie breaker



Control connection diagrams
Two breakers



Control connection diagrams
Two breakers and a tie breaker



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 61000-6-4
IEC/EN 61010-1
IEC/EN 61010-2
UL508

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Certificates

cULus
EAC
RCM

ETIM classification

ETIM 8.0	EC000236 - PLC CPU-module

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