ATL900

AUTOMATIC TRANSFER SWITCH CONTROLLER WITH OPTICAL PORT FOR 3 POWER SOURCES AND 2 TIE BREAKERS (180X240MM), POWER SUPPLY 110...240VAC AND 12/24/48VDC, EXPANDABLE WITH EXP... EXPANSION MODULES, BUILT-IN RS485, 3PH+N CURRENT INPUTS



Product designation			Automatic transfer switch controller for 3 power sources and two tie-breakers, three phase control, with LCD display, built-in RS485, expandable
Product type designation			ATL900
General characteristics			
Number of controlled power sources		Nr.	3
Number of tie-breaker controlled		Nr.	2
Display			Backlit LCD graphic display 128x112 pixel
Languages		Nr.	8
Expandability			3 expansion slost for EXP... Modules
AC Power supply			
Rated supply voltage AC		VAC	100...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	16.5
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	510mA at 12VDC, 260mA at 24VDC, 135mA at 48VDC
Maximum power consumption / dissipation		W	6.5
Voltage inputs			
Maximum rated voltage Ue			100...600VAC L-L (346VAC L-N)
Measurement range		V	50...720VAC L-L (415VAC L-N)

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Frequency range		Hz	45...66Hz - 360…440Hz
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
Current inputs			
Measurement range			for scale 5A: 0.02 - 6A~ for scale 1A: 0.02 - 1.2A~
Type of input			Shunt supplied by external current transformer (low voltage) 5A max
Measurement method			True root mean square (TRMS)
Overload capacity			1.2 Ie
Overload peak		A	50A for 1 second
Burden per phase		W	<0.6VA
Digital inputs			
Number of digital input		Nr.	12
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.	10
Contact arrangement			6 x 1NO-SPST + 4 x C/O-SPDT
Electrical life		cycles	10^5
Mechanical life		cycles	10^7
Static Outputs			
Number of static output			1 (OUT8)
Static output type			NO
Operating voltage		V	10…30
Maximum current		mA	50
Interface			
NFC interf.			Yes

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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			2
Programmable source type			Yes
Closed transition			Yes
Non-priority load management			Yes
Switching management with power thresholds			Yes
PLC logic			Yes
Timer			Yes
System layout available on display			14
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)
Accessory for alarm remoting			RGKRR (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)

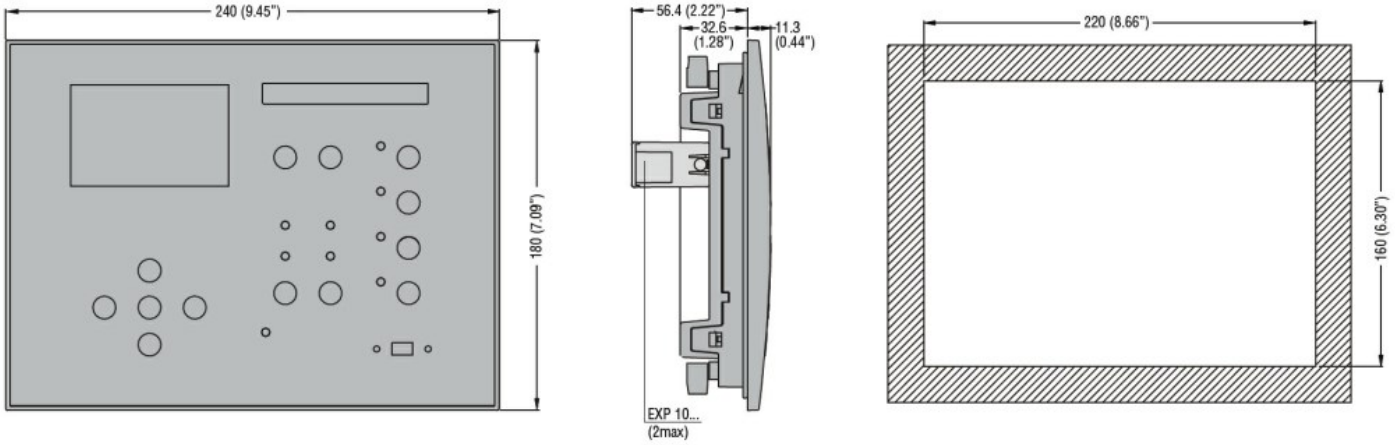
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Shock resistance		15g (IEC/EN 60068-2-27)
Vibration resistance		0.7g (IEC/EN 60058-2-6)

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	1800

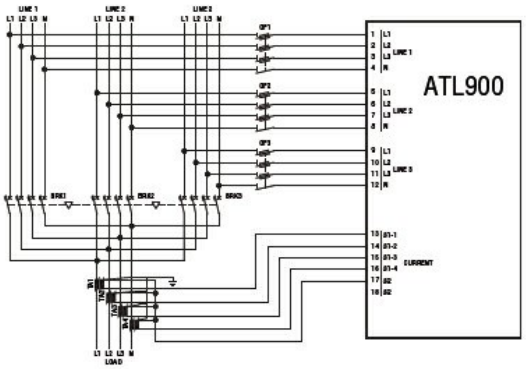
Dimensions



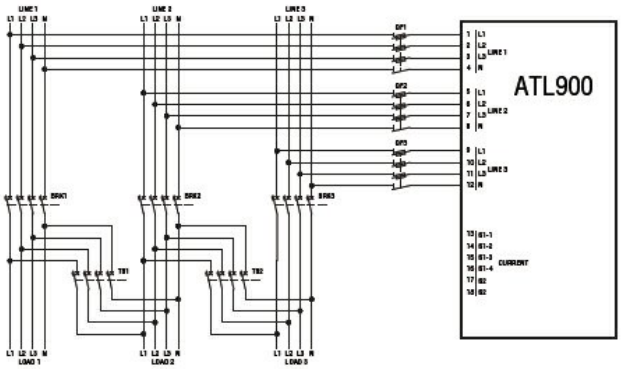
Wiring diagrams

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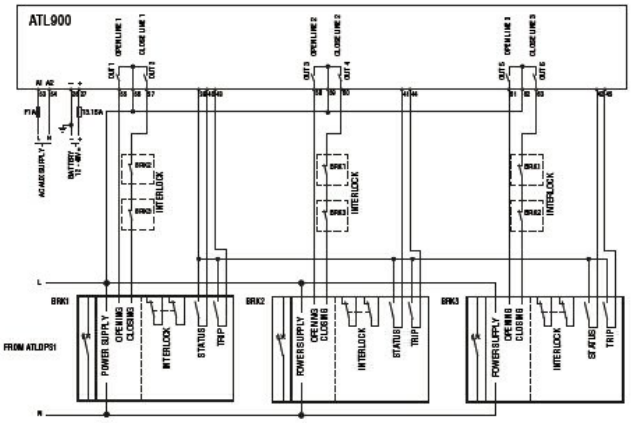
Power connection diagrams
Three breakers



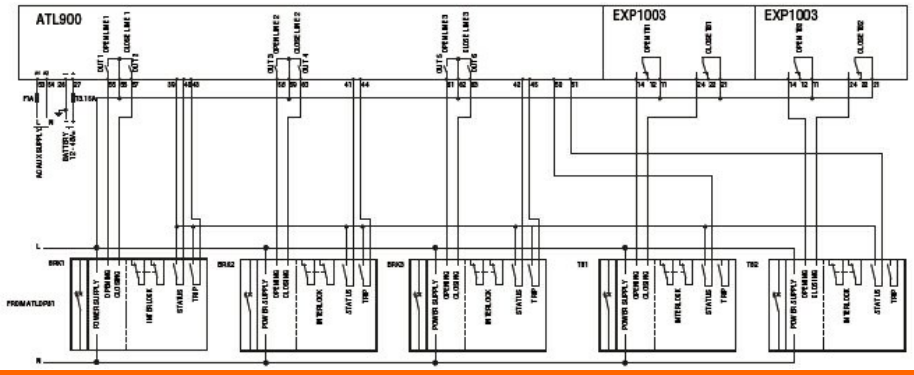
Power connection diagrams
Three breakers and two tie breakers



Control connection diagrams
Three breakers



Control connection diagrams
Three breakers and two tie breakers



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

Certificates

cULus
EAC
RCM

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ETIM classification

ETIM 8.0	EC000236 - PLC CPU-module

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