



Automatic transfer switch controller for 2 power sources and one tie-breaker, three phase control, with LCD display, built-in RS485, expandable ATL800

## Product designation

## Product type designation

### 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 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 ≤40
	220VAC	ms ≤200

### Immunity time for microbreakings (with EXP expansions)

	110VAC 220VAC	ms ms	≤20 ≤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

Measurement method	True root mean square (TRMS)	
Input impedance	phase-phase phase-neutral	>1.10MΩ >0.55MΩ
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.	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 <sup>5</sup>
Mechanical life	cycles	10 <sup>7</sup>
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	

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

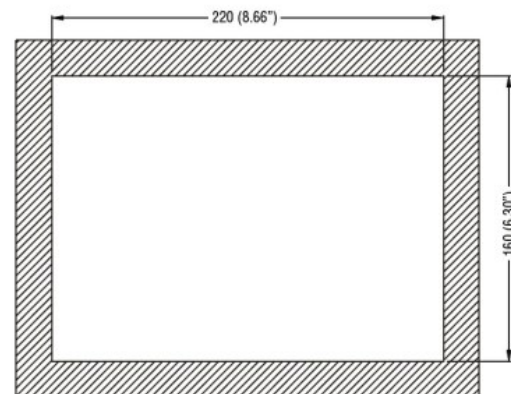
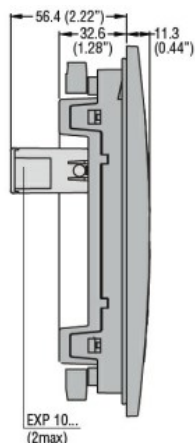
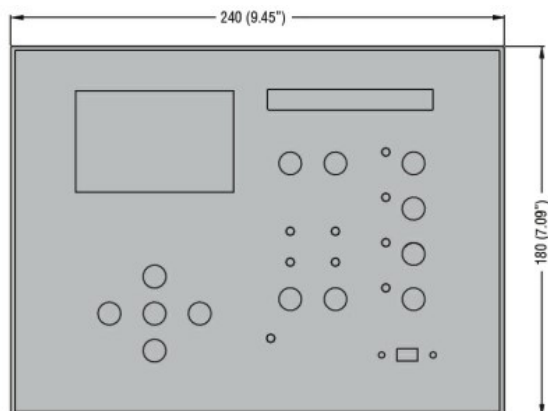
Relative humidity	%	<80%
Maximum Pollution degree		2
Overvoltage category		3
Measurement category		III
Climatic sequence		Z/ABDM (IEC/EN 60068-2-61)
Shock resistance		15g (IEC/EN 60068-2-27)
Vibration resistance		0.7g (IEC/EN 60058-2-6)

### 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

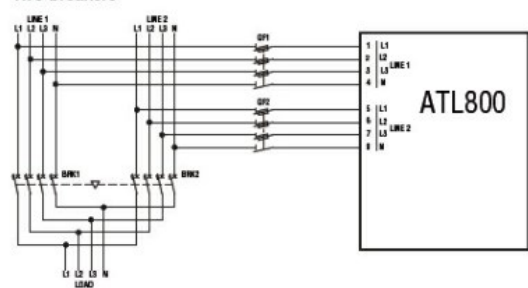
### Dimensions

INVERSOR DE SURSA AUTOMAT CU PORT OPTIC PENTRU 2 SURSE DE ALIMENTARE ȘI 1 CUPLA (180X240MM), ALIMENTARE 110 ... 240VAC ȘI 12/24/48VDC, EXPANDIBIL CU EXP ...

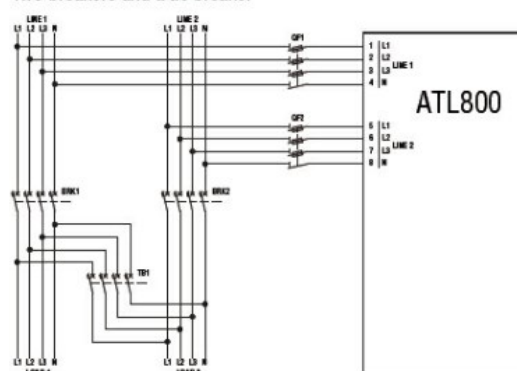


## Wiring diagrams

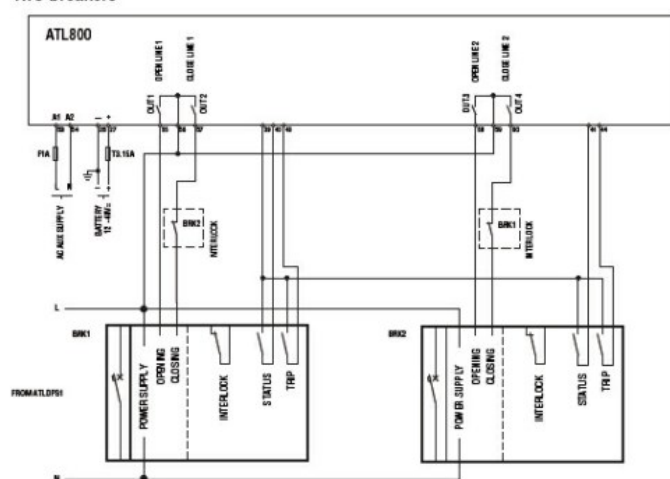
Power connection diagrams  
Two breakers



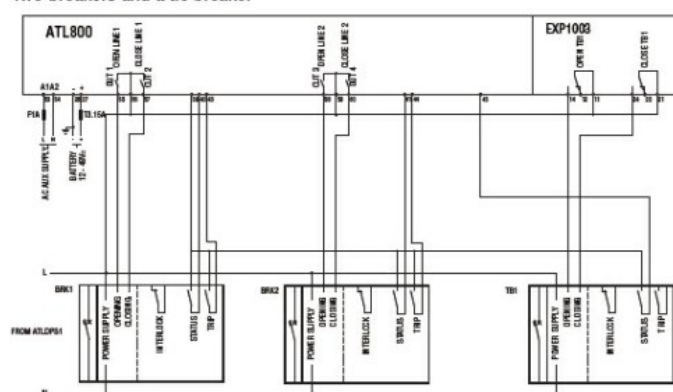
Power connection diagrams  
Two breakers and a tie breaker



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

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EAC

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RCM

ETIM classification

ETIM 8.0

EC000236 - PLC  
CPU-module