

Product designation

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

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 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	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 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
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
ETIM classification				
ETIM 8.0				EC000236 - PLC CPU-module