

PHASE SELECTORS

SELBLUOUT301 SERIES



Description

The series of outdoor phase selectors SELBLUOUT301 of BLUNERY are a complete and fully integrated solution to increase redundancy for AC single phase loads (i.e.: UPS for HFC networks). It is a very convenient way to reduce the use of the UPS' batteries if one phase shuts down.

The SELNVTPEF301 intelligent module included in this units, allows for the connection of single phase AC loads into three phases AC lines.

Protection devices, AC & DC distribution, status signaling, etc. are included in the unit for a quick and easy deployment in the field.

The installation requires only two steps: the connection of the AC source to the input terminal block and the load to the output terminal block.

The powerfull firmware embedded in the SELNVTPEF301 intelligent modules allows monitoring all the AC source waveform parameters for each phase, connecting the best one to its output.

Main Features

- Up to 3.5KW loads can be safely connected to its output.
- Outside status indicators for AC line, AC output and fail.
- Adjustable parameters such as: transfer to main phase, high and low line voltage, transfer delay, etc.
- High current DIN terminal blocks for a quick AC (line & load) wiring.
- By-pass switch for service and maintenance.
- Field replaceable SELNVTPEF301 intelligent module.
- Compatible with worlwide line standards: voltage and frequency.

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SPECIFICATIONS

SPECIFICATIONS		SELBLUOUT3012STD	SELBLUOUT3012CV	SELBLUOUT3011STD	SELBLUOUT3011CV
ELECTRICAL					
MAIN					
Nominal Voltage [VAC]	3 x 220 + N		3 x 120 + N		
Frequency [Hz]	45 - 55		57 - 63		
Input Phases	3	2	3	2	
Auxiliary Genset Connection	No	Yes	No	Yes	
Maximum Phases Voltage [VAC]	450		240		
Maximum Phase Current & Output [Amps]	16				
Minimum Operation Voltage - Before Shutdown	90		70		
Phase Selector Module Model	SELNVTPEF301220		SELNVTPEF301120		
EXTENDED					
“Vmax” High Voltage Transfer - Adjustable Range [VAC]	230 - 280		130 - 155		
“Vmin” Low Voltage Transfer - Adjustable Range [VAC]	160 - 210		90 - 110		
“Vmax” & “Vmin” Histeresys [VAC]	10		5 - 7		
“Ton” - Reconnection Time After Shutdown [seg]	5 - 200		1 - 500		
“Tr” - Transfer to Main Phase Adjustable Delay Range Phase has to be Active [seg]	5 - to stays in current phase				
Transfer Time Phase to Phase [mseg]	< = 20				
OTHERS					
Protection Devices per Phase	Fuse	Thermomagnetic Circuit Breaker	Fuse	Thermomagnetic Circuit Breaker	
Connection for the UPS	20Amps DIN Terminal Block				
Outbox Active Phase Indicator	Yes (3 x RED)				
Outbox Active Output Indicator	Yes (1 x GREEN)				
Outbox Faulty Output Indicator	Yes (1 x RED)				
Modular TVSS Surge Suppressors	Optional				
MECHANICAL					
Dimensions: H x W x D [mm/inches]	293 x 276 x 140 / 11.53 x 10.86 x 5.51				
Weight [Kg/Lbs]	2.40 / 5.30				
Mount	Pole or Wall				
Box IP grade	IP67				
ENVIRONMENTAL					
Working Temperature [°C/°F]	-35 / +55 to -31 / +131				
Storage Temperature [°C/°F]	-45 / +70 to -49 / +158				
Relative Humidity - Non Condensing [%]	95				
Altitude [masl]	4000				
INTERNATIONAL STANDARDS (applies to model SELNVTPEF301)					
IEC 60947-1: 2004					
IEC 60947-1: 1992					
CISPR 11:2004					
IEC 61000-4-2:2001					