

SYNCHRO-CHECK PROTECTOR TRIP RELAYS

KEY FEATURES

- LED fault indication
- Adjustable nominal voltages, trip points, time delay and differentials
- Compact DIN- rail
 enclosure
- Power on LED (Green)
- Designed to avoid nuisance tripping

TE Connectivity's (TE) Crompton Instruments synchro-check (paralleling) protector trip relay compares the voltage, frequency and phase angle of two supplies and operates a relay according to the state of synchronization of the supplies, If the two supplies are not synchronized, the relay operates to provide a control output. The relay output can be used for alarm or control purposes.

As part of an automatic synchronizing arrangement, the synchrocheck (paralleling) trip relay can be used as an independent backup or checking device to ensure the two systems are suitably matched before the breaker can close.

The relay is fitted with a selectable Dead Bus detection function. If there is a requirement for a continuous supply or emergency power, then the generator can be connected without synchronizing, thus ensuring continuity of supply. The absence of the bus voltage will cause the relay to energize.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.





SPECIFICATION					
Technical parameters	PLL/D- 100/120	PLL/D- 173/240	PLL/D- 380/480	PLL/D- 277/500	
Phase angle and voltage dead bus option (energise on trip):	•	•	٠	•	
System type:	1-phase (1-), 3-phase 4-wire (3-)				
Input terminals (generator):	A1, A2				
Input terminals (busbar):	A3, A4				
Rated voltage Un (V nom) L-N:	57.7, 63.5, 69.3	100, 110, 115, 120, 127, 139	220, 230, 240, 254, 265, 277	277, 300, 380, 400, 415, 440, 480, 500	
Operating frequency:	45-65 Hz				
Supply input burden (max):	2VA/1.6W approx	2.7VA/1.7W approx	4VA/2.2W approx	5 VA/2.8W approx	
Dead bus on Udbon:	25% Uon				
Dead bus off Udboff:	50% Uon				
Sync tolerance adjustable:	10-30% volts				
Overload capacity -continuous: -max. 10s:	87V 104V	174V 209V	346V 416V	600V 700V	
Opening level (Uopen):	35V	60V	132V	166V	
Output relay-contact:	2x change over (AgNi) plated				
Output relay-contact terminals:	15, 16, 18 & 25, 26, 28				
Load capacity AC:	250V/8A, max.2 kVA				
Load capacity DC:	30V/8A				
Mechanical life:	3x10 ⁶ by rated load				
Relay reset:	Automatic				
ANSI no.:	25				
Operating temperature:	-20 +55°C				
Storage temperature:	-30 +70°C				
Insulation:	4kV/1min.				
Overvoltage category:	111.				
Pollution degree:	2				
Enclosure integrity:	IP40 from the front panel/IP20 terminals				
Enclosure style:	DIN-rail, 6 module				
Case material:		Flame retardant polycarbonate			
Connecting conductors profile (mm ²):	max.2x1.5mm ² /1x2.5mm ²				
Dimensions:	H90xW105xD64mm				
Weight:	291g approx	335g approx	332g approx	335g approx	
Standards:	EN 60255-6, EN 60255-27, EN61000-6-2, EN6100-6-4				

PROTECTOR OVERVIEW PLL/D



CONNECTION PLL/D



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