



Sinetrac®

Introduction

The equipment provides only proper three-phase supply and acts as a safety gadget to the loads connected through it from the erratic voltages, the phase sequence, single phasing over loading etc.

Installation

For good performance of any equipment, correct installation is perhaps one of the most important one. Hence correct positioning is essential, it should be installed as near to the Mains Supply Board as possible to maintain short cable length, neat & clean cabling.

Lay-Out

- i) Switch off the Mains Switch.
- ii) Now Connect with proper rating input cables Red, Yellow, Blue and Black of the Mains Box and input Terminals to the Three Phase Protector marked by R, Y, B, N respectively.
- iii) After this Connect output with a proper rating cables Red, Yellow, Blue, Black the load to be connected through the Three Phase Line Protector and output Terminals, marked by R, Y, B, N respectively.
- iv) After connections the Main Switch may be switched on at the desired time for one time initial start.

Operating Instructions

R Y B Pilot Lamps : Indicate the presence of three phases in input supply.

Healthy Mains : It states the presence of proper three phase supply i.e.

- i) Normal within range mains Voltages in all three phases.
- ii) Proper sequence of all the three phases.

Overload Indication : Provides the overload tripping facility. Over load indicator indicates that the equipment is tripped due to over loading.

Over load Reset : Once the equipment gets tripped, the load should be reduced and then reset. Pushbutton should be pressed to release the overload-tripped condition.

Timer On : The Three Phase Line Protector has the optional facility to work all by itself. So it can be installed at un-manned stations. As soon as the timer is switched on it starts giving the output for desired hours to the equipment and then switches off for desired time the output supply automatically, then again it restarts and remains

'ON' & 'OFF' automatically. This continues to work perfectly till the circuits are being fed voltage through mains or Battery. In case the time has to be rescheduled the system should be switched off by start switch in 'UP' position and again brought down at "the time of start".

The timer 'ON' & 'OFF' cycles can be adjusted on site or preset from factory as per order.

Available Models

A) TPP

B) TPPAC

C) TBES

D) ACES

A Model : TPP

Features

Available Capacities

		Models	Copper Cables	Models	Copper Cables
(i) Single Phasing protection(SPP)	--- No Output (Trips)	10kVA Loads upto 71hp, 16kVA Loads upto 10hp,	4 sq. mm 6 sq. mm	60kVA Loads upto 47hp, 75kVA Loads upto 55hp,	35 sq. mm 50 sq. mm
(ii) High/Low Voltage Protection(HLVC)	--- No Output (Trips)	25kVA Loads upto 20hp, 40kVA Loads upto 45hp,	16 sq. mm 25 sq. mm	100kVA Loads upto 125hp, 125kVA Loads upto 150hp,	70 sq. mm 120 sq. mm
(iii) Phase Reversal Protection(PR)	--- No Output (Trips)	50kVA Loads upto 55hp,	35 sq. mm	150kVA Loads upto 173hp,	150 sq. mm
(iv) Over Load Protection	--- No Output (Trips)				

B Model : TPPAC

Features

Available Capacities

		Models	Copper Cables	Models	Copper Cables
(i) Single Phasing protection(SPP)	--- No Output (Trips)	10kVA Loads upto 71hp, 16kVA Loads upto 10hp,	4 sq. mm 6 sq. mm	60kVA Loads upto 47hp, 75kVA Loads upto 55hp,	35 sq. mm 50 sq. mm
(ii) High/Low Voltage Protection(HLVC)	--- No Output (Trips)	25kVA Loads upto 20hp, 40kVA Loads upto 45hp,	16 sq. mm 25 sq. mm	100kVA Loads upto 125hp, 125kVA Loads upto 150hp,	70 sq. mm 120 sq. mm
(iii) Phase Reversal Protection(PR)	--- Corrected output of Phases in sequence available	50kVA Loads upto 55hp,	35 sq. mm	150kVA Loads upto 173hp,	150 sq. mm
(iv) Over Load Protection	--- No Output (Trips)				

C Model : TBES

Features

Available Capacities

		Models	Copper Cables	Models	Copper Cables
(i) Single Phasing protection(SPP)	--- No Output (Trips)	10kVA Loads upto 71hp, 16kVA Loads upto 10hp,	4 sq. mm 6 sq. mm	60kVA Loads upto 47hp, 75kVA Loads upto 55hp,	35 sq. mm 50 sq. mm
(ii) High/Low Voltage Protection(HLVC)	--- No Output (Trips)	25kVA Loads upto 20hp, 40kVA Loads upto 45hp,	16 sq. mm 25 sq. mm	100kVA Loads upto 125hp, 125kVA Loads upto 150hp,	70 sq. mm 120 sq. mm
(iii) Phase Reversal Protection(PR)	--- No Output (Trips)	50kVA Loads upto 55hp,	35 sq. mm	150kVA Loads upto 173hp,	150 sq. mm
(iv) Over Load Protection	--- No Output (Trips)				
(v) Different Setable times facility for	--- Connected load gets a automatic start and off in accordance with their settings On time & OFF time				
(vi) Built in Electronic Star Delta Starter Facility	--- Automatic Star Delta conversion in every cycle				

D Model : ACES

Features

Available Capacities

		Models	Copper Cables	Models	Copper Cables
(i) Single Phasing protection(SPP)	--- No Output (Trips)	10kVA Loads upto 71hp, 16kVA Loads upto 10hp,	4 sq. mm 6 sq. mm	60kVA Loads upto 47hp, 75kVA Loads upto 55hp,	35 sq. mm 50 sq. mm
(ii) High/Low Voltage Protection(HLVC)	--- No Output (Trips)	25kVA Loads upto 20hp, 40kVA Loads upto 45hp,	16 sq. mm 25 sq. mm	100kVA Loads upto 125hp, 125kVA Loads upto 150hp,	70 sq. mm 120 sq. mm
(iii) Phase Reversal Protection(PR)	--- Corrected output of Phases in sequence available	50kVA Loads upto 55hp,	35 sq. mm	150kVA Loads upto 173hp,	150 sq. mm
(iv) Over Load Protection	--- No Output (Trips)				
(v) Different Setable times facility for On time & OFF time	--- Connected load gets a automatic start and off in accordance with their settings				
(vi) Built in Electronic Star Delta Starter Facility	--- Automatic Star Delta conversion in every cycle				

Abbreviations :

SPP : Single Phase Protection ; TPP : Three Phase Protector ; TB : Timer Based ; HLVC : High & Low Voltage Cut ; PR : Phase reversal ; AC : Auto-Corrector ; TPPAC : Three phase protector Auto Corrector ; TBES : Timer Base Electronic Starter ; ACES : Auto-Corrector Electronic Starter ; DR : Dry Run Protection

Note:

- (i) Models TBES -10kVA, 16kVA & ACES 10kVA, 16kVA will have DOL starter. Remaining all TBES and ACES Models will have star-delta starters.
- (ii) Dry run Protection available with select models and is optional on an extra charge.

Due to continuous upgradation specifications may change without prior notice

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