

Simplifies Electrical Complexity

Prokdv's®
... a mark of quality
ISO 9001:2015



Total Reliability in Power System Protection & Monitoring

ACCL



**MICROPROCESSOR BASED
SINGLE PHASE AUTO SOURCE CHANGEOVER
CUM CURRENT LIMITER WITH DUAL SOURCE ENERGY**

FEATURES

- Current ratings 1Amps to 32Amps continuous duty when load on EB/DG
- While monitoring the Generator supply, it allows only a limited load and functions as Load limiter as per desired current (Factory set)
- Whenever Load Current exceeds the present limit, power is automatically switched off and on automatically after 9 seconds and trips again if the overload still exists this cycle(3sec ON & 6sec OFF) is repeated every 9 sec, ACCL enters LOCK OUT mode after 5 ON & OFF cycles if overloading of DG still exists.
- On resumption of the EB mains, ACCL automatically changes over from DG to EB and allows full current. ACCL comes out of LOCK OUT mode once EB resumes.
- The ON/OFF cycles can be set according to customer requirement(optional)
- The unit can be Reset manually by reset switch.
- If the unit has entered LOCK OUT mode due to OV/UV, the unit has to be Reset manually

BENEFITS

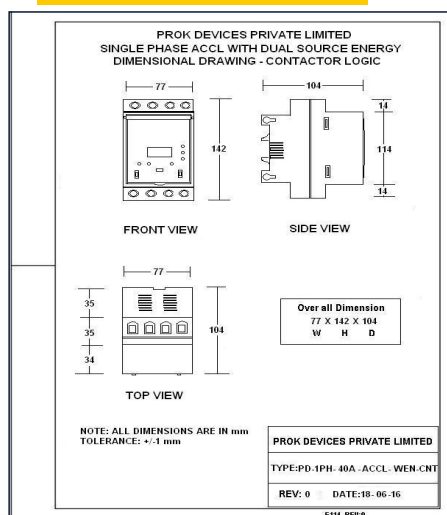
- Micro controller based True RMS measurement of load current. Hence, precise and accurate.
- Significant saving on wall space and wiring
- Tropicalized and rugged design
- LED/LCD indications for load on EB, load on DG & TRIP mode
- Different On time delays (while on DG) as per the client's requirements
- Fire Retardant Teflon wires having very high insulation levels are used in internal wiring of ACCL
- Wiring connection through highly reliable insulated feed through terminal blocks for EB mains, DG mains & Load.

SPECIFICATIONS

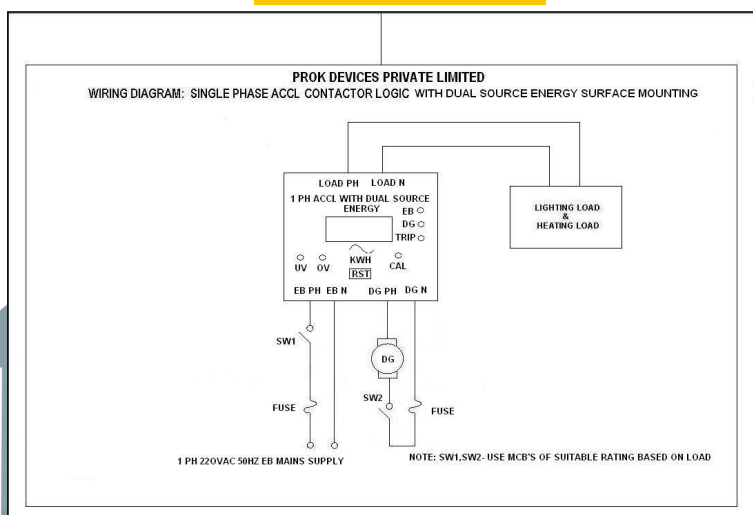
SINGLE PHASE AUTOMATIC CHANGEVER CUM CURRENT LIMITER (ACCL) WITH DUAL SOURCE ENERGY

| TECHNICAL SPECIFICATIONS | SINGLE PHASE ACCL WITH DUAL SOURCE ENERGY |
|-----------------------------------|--|
| State-of-The-Art | Microcontroller Based Design |
| Design standard | IEC 60947-6-1 |
| Logic incorporated | Contactor logic up to 32Amps |
| Dimensions (in mm) (WxHxD) | 77x142x104mm, +/- 1mm Tolerance |
| Mounting | Din |
| Load on DG | User specified Cut-off possible |
| Models | PACCL-1032AE: 1-Ph ACCL with Energy only PACCL-1032AERS: 1-Ph ACCL with Energy and RS 485 communication |
| Energy Consumption Indication | LED indications for Presence of EB, Presence of DG & Overload Trip/Lockout, Blinking of CAL LED for Energy consumption |
| Switching device | Contactor AC1 duty |
| No. of Electrical operational | 2.1million operations |
| No. of Mechanical operational | 10 million operations |
| Degree of Protection | Ip20 |
| Material used | ABS Fire Retardant Plastic |
| Conditional Short circuit current | 3kA |
| 1Terminal Wiring | upto 50sqmm |
| 2opetritional voltage range | 30% to +20% of Un |
| Tripping method | Whenever the load currents exceeds the Set Limit, power is instantaneously switched off and resets automatically after every 9sec. ACCL will enter into LOCK OUT mode after 5 ON & OFF cycles, if overload of the DG still persists, User has to manually Reset the ACCL. Note: However the tripping cycles can be configured according to user choice |
| Reset method | ACCL can be Reset through Reset key provided at the front fascia of 1Ph ACCL with dual source energy |
| Priority selection | EB Priority/DG Priority can configured at the factory EB priority: Default |
| Load Changeover | Automatically based on priority of Source Selection EB to DG and vice-versa |
| Display | 8x2 Alphanumeric Backlit LCD for displaying the Electrical Parameters |
| Display Parameter | <ol style="list-style-type: none"> 1. Line to Neutral Voltage in Volts, Phase current in Amps 2. Total Power in KW 3. Kilo watt Hour-EB,DG 4. Apparent Power in KVA-EB,DG 5. Power Factor-EB, DG |
| Warranty | 18months from the Date of Manufacture or 12months from the date of invoice |

DIMENSIONAL DETAILS



WIRING DIAGRAM



FOR FURTHER DETAILS PLEASE CONTACT:
PROK DEVICES PRIVATE LIMITED B-80,
2nd & 3rd Floor, KSSIDC Industrial Estate,
Bangalore-560010
Ph. No.:080-41480777 | 080-41157700

Authorised Delears: