


SECO



POWER PACK - CAPACITOR BACKUP (STORED DC UNIT)

10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR,
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SAHYADRI (SECO) make **Power Pack with Capacitor Backup** (Stored DC) is designed with Transformer based capacitor backup technology used as a power source for Breakers & Control Relay Panels in substations where dedicated Station Batteries are not available. Internal Capacitor of the Power pack gets charged from AC Source and it will give DC Voltage output to the connected loads for operating close/trip coils and other essential loads such as auxiliary supplies to protection relays, Indicating Lamps and other circuits.

APPLICATION:-

During fault condition of the system, the protective Relays primarily operate and give an impulse to the tripping coil of the breaker. To energize the trip coil when this impulse is given, a most reliable auxiliary DC supply is required. The DC supply is obtained from Battery supply in majority of the installations. In unmanned substations or where there are one or two panels are installed, the provision of Battery becomes quit expensive or maintenance is also expensive. In such cases, POWER PACK can be used for obtaining DC supply for tripping. Maximum of One trip can be made in absence of AC supply.

FEATURES:-

- Transformer step down Rectifier type
- Adequate energy stored to energize the Trip coil
- Suitable output fuse provided to protect the output short
- Metal Box enclosure

TECHNICAL SPECIFICATIONS:-

- **Input Voltage:** 110V / 230V AC 50 Hz.
- **Output voltage:** 24V, 30V & 110V DC
- **Output Load Power:** 100W Sec
- **No. of operation:** One Trip - in absence of AC input
- **Indications:** Input AC ON & Output DC ON

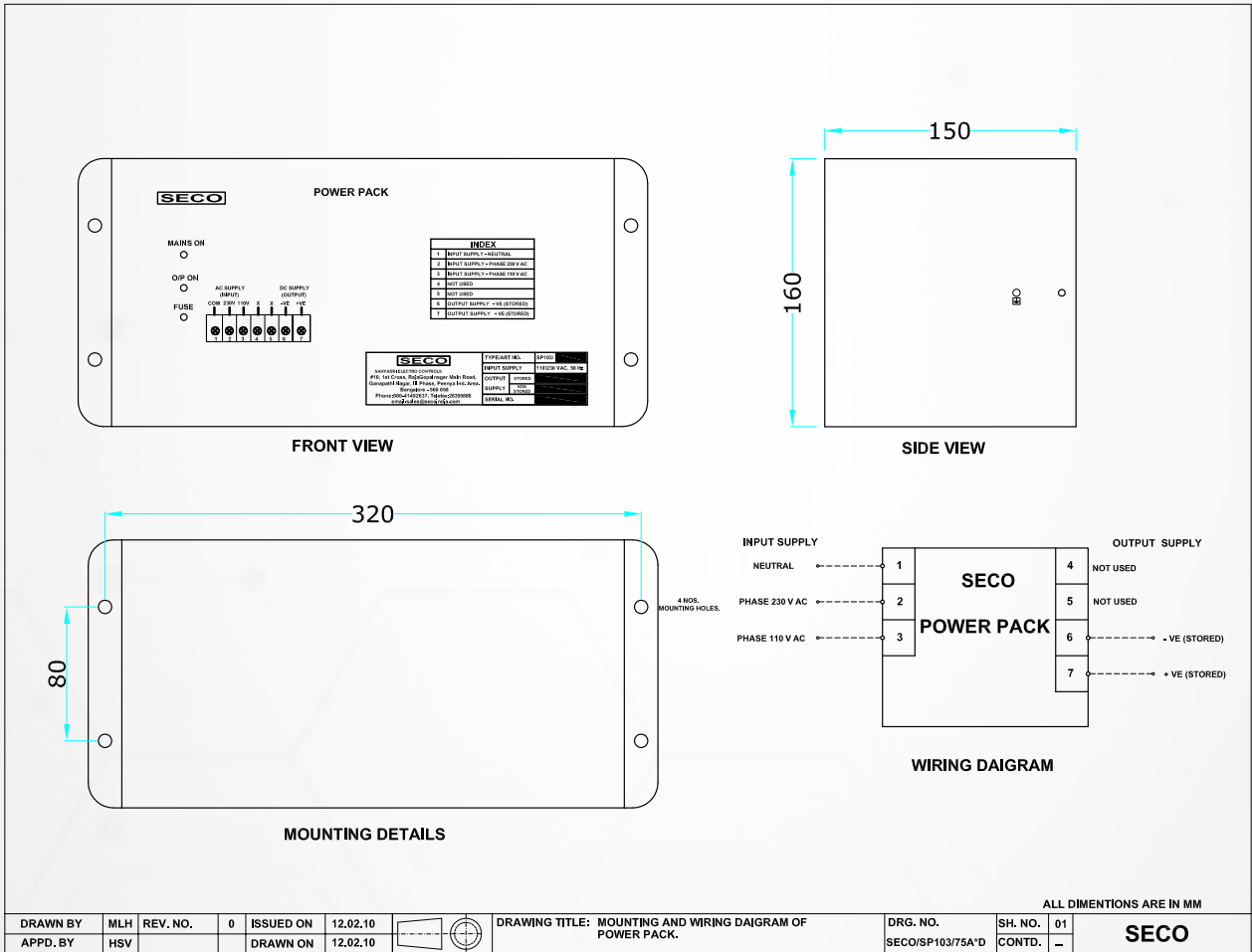
STANDARD COMPLIANCE :-

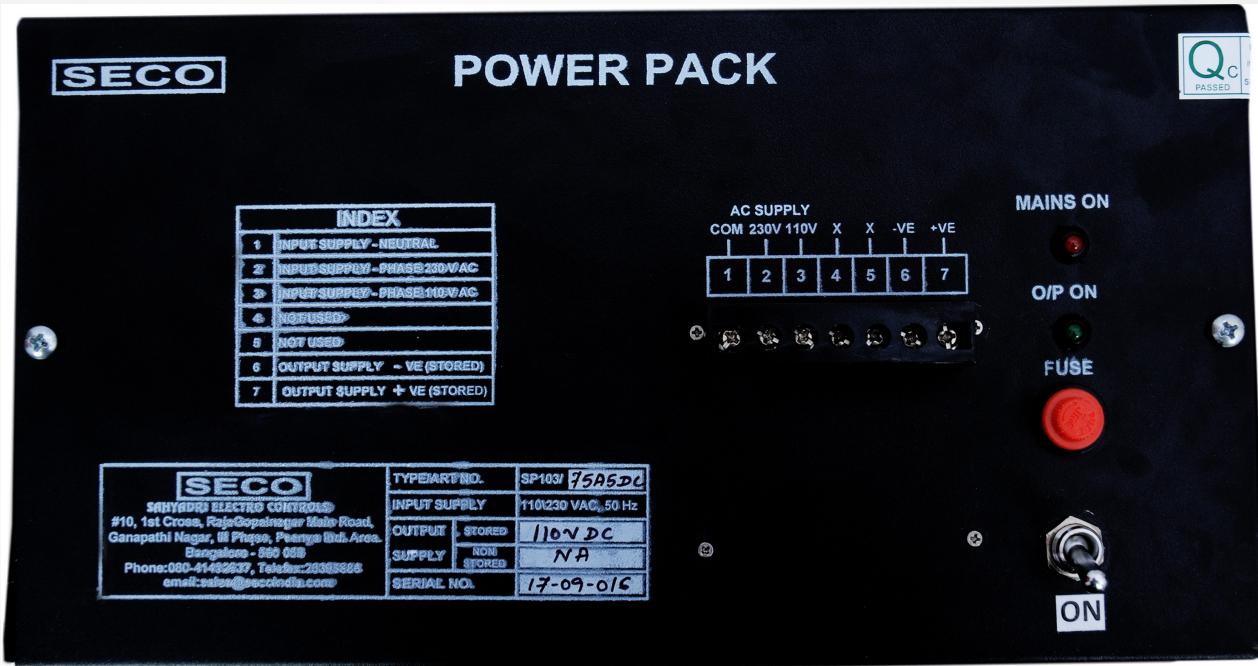
- Insulation: IEC 60255-5
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Note:

- Power Pack unit contains Electrolytic Capacitor (can type) which has its own Shelf Life factor. When Power Pack unit is stored/unused more than 2 weeks, pre conditioning of Capacitors by applying rated voltage for 2 to 3 hours is essential to ensure homogenous distribution of electrolyte inside the capacitor and thereby enabling the power pack to charge and deliver rated output.
- The glow of DC Healthy Test LED indicates only the presence of output DC voltage but not the quantum of stored DC voltage or magnitude of rated Dc output voltage.
- Watt-sec rating of power pack = wattage of shunt Trip coil of Beaker x Operating time of shunt Trip coil x No. of shunt Trip operations required.

WIRING AND DIMENSIONAL DRAWING





SAHYADRI®

ISO 9001:2015 Certified



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