

ELECTRICAL PANEL – DIRECT ONLINE STARTER

Product Overview: The Direct Online Starter Panel is designed for the safe and efficient starting of three-phase induction motors by applying full line voltage directly to the motor terminals. It is one of the simplest and most cost-effective motor starting solutions, ideal for low to medium horsepower motors where high starting current is acceptable.

The panel is equipped with short-circuit and overload protection, automatic/manual operation, and user-friendly controls, ensuring reliable operation in demanding industrial and commercial applications.

Manufactured from 16 SWG CRCA sheet steel with powder coating, the enclosure ensures durability, corrosion resistance, and long service life in tough environments.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Electrical Panel – Direct Online Starter
Model No.	PSS - DOL

2. TECHNICAL SPECIFICATIONS :-

Operating Voltage Range	440V AC $\pm$ 10%, 50Hz, 3-phase
Motor Compatibility	Suitable for motors up to 10HP – 25HP
Rated Current Capacity	10A – 63A (depending on motor rating)
Starting Method	Direct application on full line voltage (DOL)
Control Circuit Voltage	230V AC
Protection Devices	- Thermal overload relay - MCB/MCCB short-circuit protection - Fuse protection
Switchgear Components	- Heavy-duty contactor - Push buttons (Start, Stop, Reset) - ON/OFF selector switch
Indications	R, Y, B phase indication lamps and ON lamp
Enclosure Construction	16 SWG CRCA sheet steel, epoxy/polyester powder coated
Dimensions (H x W x D)	350 x 300 x 175 mm
Weight	7.7kg (approx.)
Ingress Protection	IP 42 standard
Cooling Method	Natural air-cooled
Colour	Standard Red
Mounting	Wall-mounted



3. ELECTRICAL & FUNCTIONAL CHARACTERISTICS :-

- Dielectric Strength : 2.5kV for 1 min between live parts and earth
- Insulation Resistance : > 100 M Ω at 500 V DC
- Short-Circuit withstand capacity : Up to 10kV (with MCCB/MCB)
- Switching Life of Contactor : >1 million mechanical operations
- Power Loss (Contactor) : $\leq$ 3W per pole at rated current
- Operating Frequency : 50Hz

4. MECHANICAL CHARACTERISTICS :-

- Enclosure Material : Cold Rolled Close Annealed (CRCA) sheet steel
- Sheet Thickness : 16 SWG (1.6mm)
- Surface Treatment : Seven-tank phosphating with epoxy/polyester powder coating
- Operating Temperature Range : -10°C to +55°C
- Storage Temperature Range : -20°C to +70°C
- Relative Humidity : Up to 95% RH, non-condensing

5. FEATURES :-

- Operates on 440V AC, 50Hz three-phase supply
- Phase Indication Lamps: R, Y, B for monitoring incoming supply
- ON Indication Lamp for operational status
- Protection : Short-circuit and overload protection with MCB/MCCB and thermal overload relays
- Modes of Operation : Automatic and manual selection
- Push-button Control : Start, Stop, Reset functions
- Compact & Rugged Design for reliable operation
- High Performance : Efficient and long service life
- Easy Installation, wiring, and maintenance
- Wall-mounted with compact dimensions

6. SAFETY & PROTECTION :-

- Overload Protection : Adjustable overload relay
- Short-Circuit Protection : MCB/MCCB as per motor rating
- Phase Monitoring : R, Y, B lamps for supply presence monitoring
- Earth Leakage Protection : Optional (ELCB/RCB)
- Emergency Stop : Push-button option for critical applications

7. APPLICATIONS :-

- Industrial : Pumps, compressors, conveyors, fans, blowers
- Agriculture : Irrigation Pump motors
- Commercial : HVAC motors, small machinery
- Utility & Infrastructure : Small DG set auxiliary motors, building services

8. WARRANTY :-

12 months from date of supply against manufacturing defects

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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