



DIRECT ON LINE MOTOR STARTER

Type PK-1

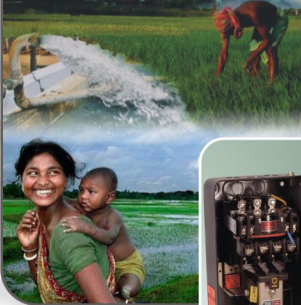
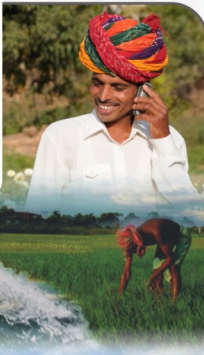
STAR-DELTA MOTOR STARTER

Type - PK 1FASD & PK 1 SASD

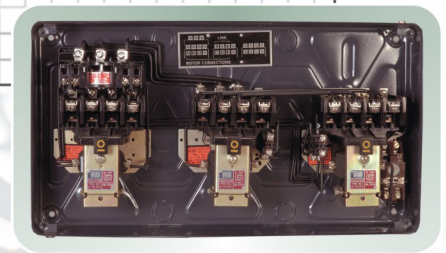
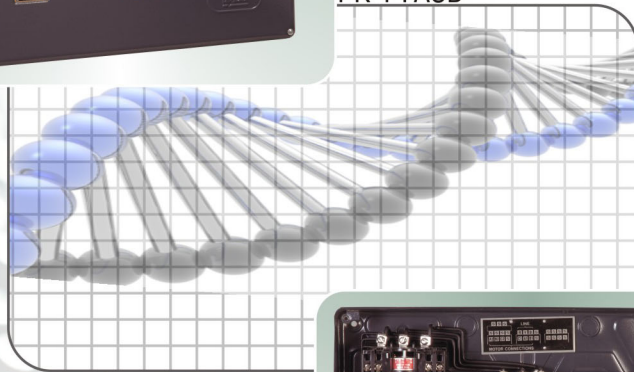
WITH ISI MARKED CONTACTORS & O/L RELAYS



PK-1DOL



PK-1 FASD

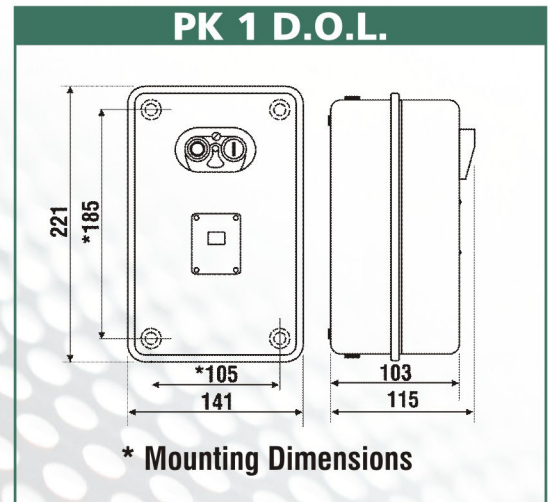
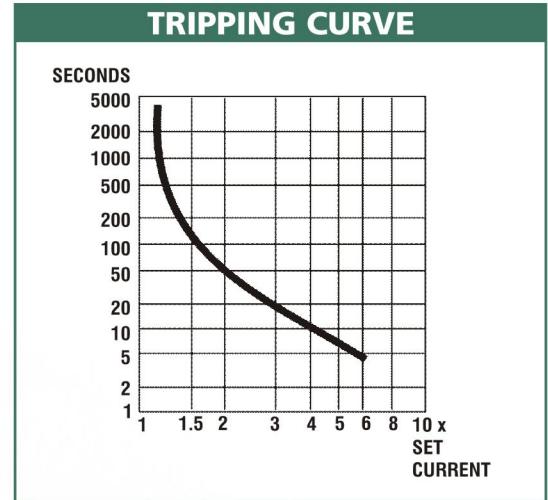


SALIENT FEATURES

- Most Reliable and suitable motor protection for industrial & Agriculture applications.
- Popular design well accepted by industrial and Agricultural users.
- Exceptionally long contact life due to silver alloy contact tips and smart operation.
- It also acts as under voltage release and protects motor from the effects of low voltage operations.
- Ambient temperature compensated for 5 C to 50 C
- Wide range of Thermal relays available 1-1.6A,1.5-2.5A,2.5-4A,4A-6.5A,6A-10A,9A-14A,11A-18A,&13A-22A.
- OFF push button can be latched OFF position to prevent accident starting.
- Degree of protection –IP 42.
- Remotely controlled operation possible
- 2 Nos. Earthing screws provided for protection.
- Sheet steel Enclosure specially designing, Fabricated and powder coated.
- Wide range of coil voltage available 240,360,415V AC
- Star delta starter are available in fully automatic type –PK-1 FASD & Semi automatic type PK-1 SASD.

TECHNICAL DETAILS OF CONTACTOR TYPE-PK1 USED IN DOL AND STAR-DELTA MOTOR STARTERS

| CONTACTOR TYPE | | PK 1 |
|--|---|------|
| Cat. No. | PC21425 | |
| Main Contacts : | | |
| No. of poles | 3 | |
| Thermal rating | 15A | |
| Operating current Ie For AC-3 at 415 V; 50 Hz | 11A | |
| Motor Duty; 3 Ø 415V; 50 Hz: AC3 Duty | 5.5kW/7.5hp/11A | |
| Making capacity at 415 V; Cos ϕ -0.45; 50 Hz | 110A | |
| Breaking capacity at 415 V Cos ϕ -0.45; 50 Hz | 88A | |
| Capacitor switching Δ connected, 415V, 50 Hz: | - | |
| Terminal capacity : wires up to lugs up to | 6 mm ² | |
| Coil : | | |
| Voltagess available | 240, 360, 415 V AC | |
| Consumption : | | |
| Pick up | 60 VA | |
| Hold-on | 14 VA (6W) | |
| Other Details : | | |
| Insulation voltage | 500 V | |
| Weight (Open Execution) | 775 gm | |
| Spares kit : | | |
| Cat. No. | SPR 114 | |
| Contents | 8 fixed contacts, 4 moving contacts, screws and washers, M.C.Spring | |
| Impulse withstand Vol Uimp | 6 KV | |

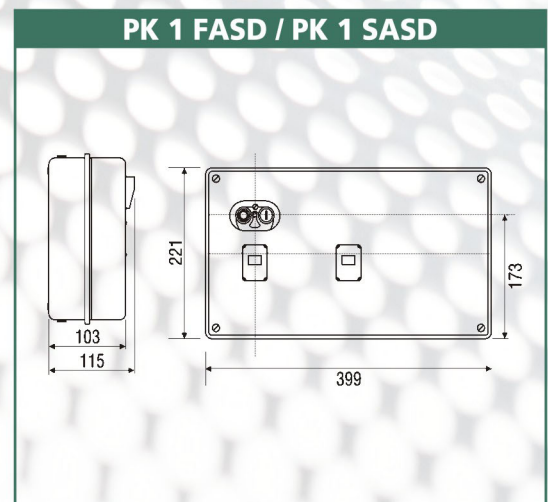


PK 1 DOL

| Motor Rating 415V, 3 Phase | | Full Load Current (Approx) | Relay Range | Back-up Fuse (Amp) |
|----------------------------|------|----------------------------|-------------|--------------------|
| hp | KW | AMPS. | | HRC |
| 1.50 | 1.10 | 2.6 | 2.5 - 4.0 | 10 |
| 1.75 | 1.30 | 3.0 | 2.5 - 4.0 | 16 |
| 2.00 | 1.50 | 3.5 | 2.5 - 4.0 | 16 |
| 2.50 | 1.80 | 4.8 | 4.0 - 6.5 | 16 |
| 3.00 | 2.20 | 5.0 | 4.0 - 6.5 | 16 |
| 4.00 | 3.00 | 6.2 | 4.0 - 6.5 | 20 |
| 5.00 | 3.70 | 7.5 | 6.0 - 10.0 | 20 |
| 6.00 | 4.50 | 9.0 | 6.0 - 10.0 | 25 |
| 7.25 | 5.50 | 11.0 | 9.0 - 14.0 | 25 |

PK 1 FASD & PK1SASD

| Motor Rating 400/415V, 3 Phase hp | Full Load Line Current (Amp) | $I_n / \sqrt{3}$ | Relay Range (Amp) | Back-up HRP Fuse Rating (Amp) | |
|-----------------------------------|------------------------------|------------------|-------------------|-------------------------------|-------|
| | | | | Max. | Mini. |
| 1 | 1.8 | 1.04 | 1 - 1.6 | 6 | 4 |
| 1.5 | 2.6 | 1.5 | 1 - 1.6 | 6 | 4 |
| 2 | 3.5 | 2.02 | 1.5 - 2.5 | 15 | 6 |
| 3 | 5.0 | 2.88 | 2.5 - 4 | 25 | 6 |
| 4 | 6.2 | 3.58 | 2.5 - 4 | 25 | 10 |
| 5 | 7.5 | 4.32 | 4 - 6.5 | 25 | 10 |
| 6 | 9.0 | 5.2 | 4 - 6.5 | 25 | 10 |
| 7.5 | 11.0 | 6.34 | 6 - 10 | 35 | 15 |
| 10 | 14.0 | 8.08 | 6 - 10 | 35 | 15 |
| 12.5 | 18.0 | 10.4 | 9 - 14 | 35 | 20 |
| 15 | 21 | 12.2 | 11 - 18 | 63 | - |
| 15 | 21 | 12.2 | 13 - 22 | 63 | - |



Note: For wiring diagram refer diary supplied along with starter.



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