



Electronic Control Box - ELCON Series

Electronic Control Box

C.R.I. Elcon Control Boxes are reliable control devices to protect your pumps against overloading, unbalanced voltages, Dry run, Phase reversal & Phase failures. The inbuilt micro controller gives complete protection to both single & three phase pumps. These control boxes are also available with float option to control the water level in storage tank.

ELCON - Single Phase

TECHNICAL SPECIFICATION

Power Range	: 0.37 to 1.1 kW (CSCR type)
	0.37 to 2.2 kW (CSR type)
Operating Voltage	: 130 - 300V, Single Phase
Frequency	: 50Hz & 60Hz
Protection	: IP 53
Voltage sensing	: Isolated linear sensing
Current sensing	: Current transformer
Max. Current Rating	: 30Amps

PROGRAM LIMITS

Overload current	: 0-30A
Dry run current	: 0-30A
High cut-off voltage	: 180-300V
Low cut-off voltage	: 180-300V
Overload cut-off time	: 3-100sec.
Dry run cut-off time	: 3-200sec.
High/Low Volt cut-off time	: 3-100sec.
Auto stop timer	: 0-99min.

FEATURES

- Digital Volt & Ammeter
- Electronic Overload Relay
- Electronic Dry run Prevention
- High / Low Voltage Protection
- User Friendly LED Indications
- Auto stop timer
- Pump failure data log
- Float switch provision to control water level (Optional)

CONNECTION DETAILS

POWER INPUT

- L – Phase
- N – Neutral

MOTOR CONNECTION

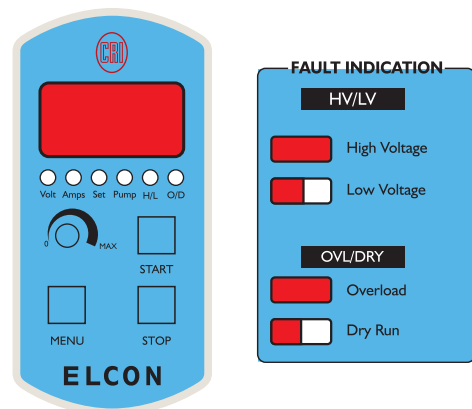
- Blue – Main winding
- Brown – Auxiliary winding
- Black – Neutral

LED INDICATION

- Volt : Voltage Display mode
- Amps : Current Display mode (Reads zero when pump OFF)
- Set : Indicates ELCON in Parameter view / edit mode
- Pump : Glows when Pump ON
- H/L : Glows when High Volt & Blinks if Low volt
- O/D : Glows if overload & Blinks if dry run



DISPLAY PANEL & INDICATIONS



ELCON Series

ELCON - Three Phase

TECHNICAL SPECIFICATION

Power range	: 0.37 to 7.5 kW
Operating Voltage	: 200 - 600V, Three Phase
Frequency	: 50Hz & 60Hz
Connection	: D.O.L.
Protection	: IP 53
Voltage sensing	: Isolated linear sensing
Current sensing	: Current transformer
Max. Current Rating	: 30Amps

PROGRAM LIMITS

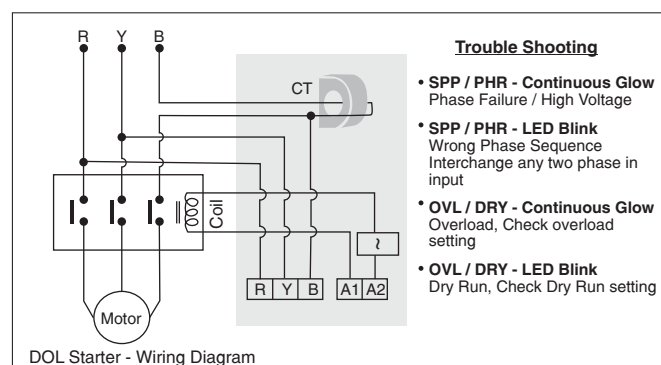
Overload current	: 0-20A
Dry run current	: 0-20A
High cut-off voltage	: 470V
Low cut-off voltage	: 260V
Overload cut-off time	: 15sec.
Dry run cut-off time	: 10sec.
High/Low Volt cut-off time	: 10sec.
Auto start	: 45sec.
Dry run Auto re-start	: 60min.

FEATURES

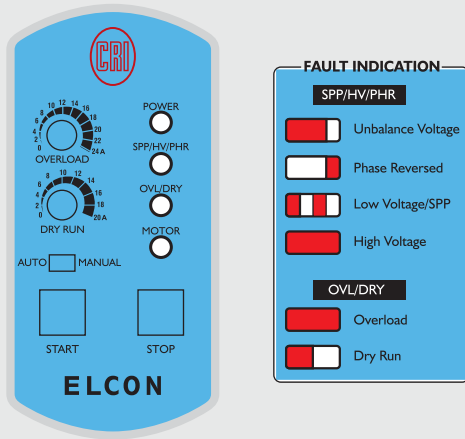
- Integrated three phase motor starter / controller
- Inbuilt overload & dry run protection
- Wide operating voltage range
- Single phase prevention
- Phase reversal cut-off
- High / Low voltage cut-off
- Unbalance voltage cut-off @70V
- Overload & dry run cut-off
- Phase failure cut-off
- Auto start & Dry run auto restart
- Auto / Manual switching
- Float switch provision to control water level (Optional)



CONNECTION DIAGRAM - 3 Phase



DISPLAY PANEL & INDICATIONS



LED	INDICATION	LED FUNCTION
POWER	Power ON LED. (RED)	When the input voltage is applied, Power ON LED starts glowing.
SPP / HV / PHR	Single Phase Prevention (RED)	When unbalanced voltage exists, LED starts blinking (Long ON time & short OFF time)
	High Voltage (RED)	When low voltage cut-off occurs, LED glows continuously
	Low Voltage (RED)	When low voltage cut-off occurs, LED starts blinking continuously (Equal interval of ON / OFF).
	Phase Reversal (RED)	When phase reversal occurs, LED starts blinking (Long OFF time & short ON time)
OVL / DRY	Overload (RED)	When overload occurs the LED Glow continuously.
	Dry Run (RED)	LED blinks continuously.
MOTOR	Motor ON (GREEN)	When the motor On and the LED Glow continuously

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

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