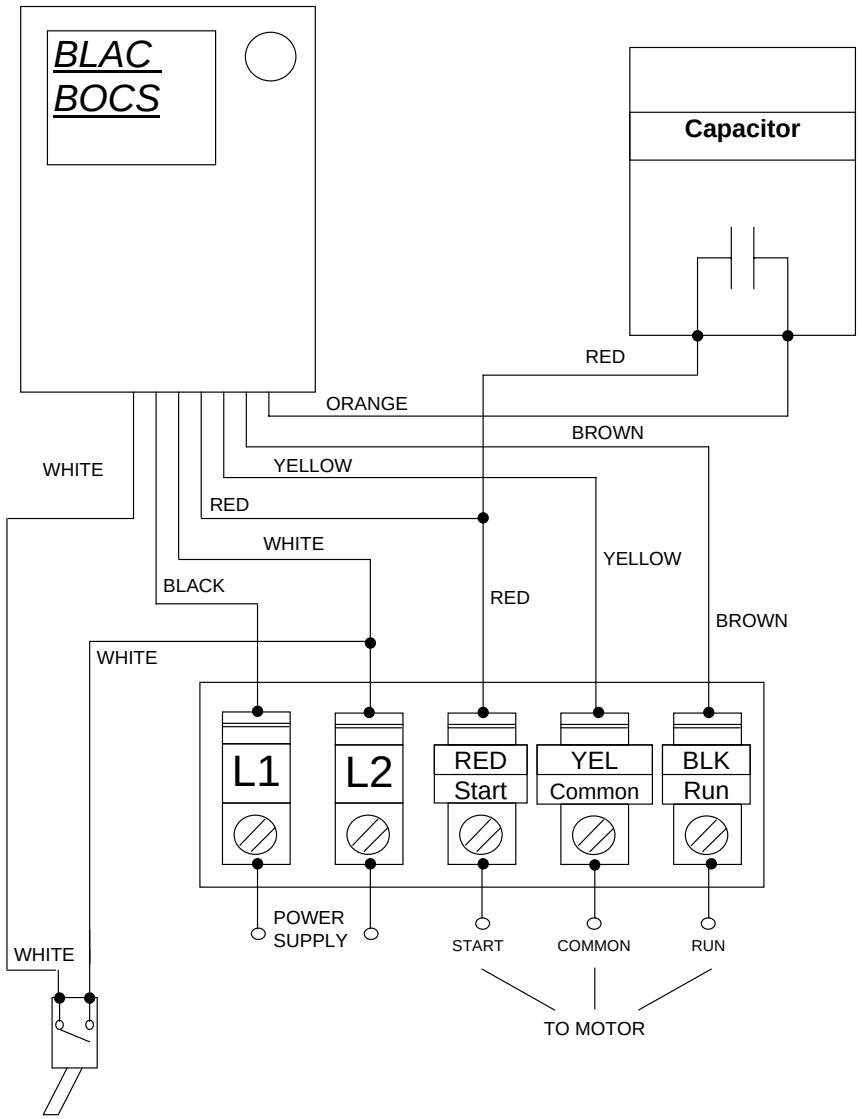
0.25 to 0.75 kW 230V CONTROL BOX PLUS INTERNAL WIRING DIAGRAM



IMPORTANT:

- INTENDED AS A WIRING GUIDE ONLY.
- FOR ELECTRICAL COMPLIANCE REFER TO LOCAL ELECTRICAL CODES SUCH AS SANS 0142 ETC.
- FOR DEVELOPMENT, MAINTENANCE AND MANAGEMENT OF GROUNDWATER RESOURCE COMPLIANCE REFER TO SANS 10299.
- FOR BLAC BOCS OPERATION AND LIGHT INDICATION REFER TO YOUR BLAC BOCS MANUAL OR FASP FIELD SERVICE GUIDE & ELECTRICAL INSTRUMENT KIT MANUAL.

CAPACITOR SIZES:

0.25 kW use a 43 - 53 Mfd 330V
0.37 kW use a 43 - 53 Mfd 330V
0.55 kW use a 59 - 71 Mfd 330V
0.75 kW use a 86 - 103 Mfd 330V

TECHNICAL SPECIFICATIONS

Voltage - Nominal	230VAC 50Hz
Voltage - Operating	185VAC to 265VAC 50Hz
Voltage - Starting	195VAC to 275VAC 50Hz
Operating Temperature	- 5 to + 60 degrees celsius
Overload Control	Trip time varies with severity of overload
Under Load Control	Approximate 70% of normal shaft power
Reset On Dry Run	Runtime is automatically matched to water available for pumping
Reset On Overload	Auto reset after first two overloads with 15 minute delay, then reset by power-up with 90 second delay
Switch Control	ISOLATOR: Used for applying power to control box only - not recommended for repeated on/off switching activity. ON/OFF, PRESSURE, FLOAT or other type of switch: Intermittent starting and stopping of the pump/motor unit.

Identification of Cables when Colour Code Is Unknown:

If the colours on the individual drop cable cannot be found, number each cable.
Measure with ohmmeter:
Cable 1 to Cable 2
Cable 2 to Cable 3
Cable 3 to Cable 1

Find the highest resistance reading.
The lead not used in the highest reading is the Common lead (Mark the lead). Use the Common lead and each of the other two leads to get two readings:

From these two readings the:
Highest is the Start (Mark the lead).
Lowest is the Run (Mark the lead).

Connect marked leads to Control Box as indicated

Franklin Electric
South Africa (Pty) Ltd

Revisions

Rev	Date	App	Description

Reference Drawings

Part Number	
0.25 kW	
2 9 0 3 5 3 0 1 1 5	
0.37 kW	
2 9 0 3 5 5 4 0 0 4	
0.56 kW	
2 9 0 3 5 7 4 0 0 4	
0.75 kW	
2 9 0 3 5 8 4 0 0 4	

Drawn	BE
Approved	LVDM
Date	23/09/2005
Drw Type	Schematic
Rev	0

BLAC BOCS
Single Phase 0.25 to 0.75 Kw
Manual On/Off