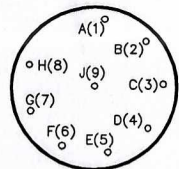
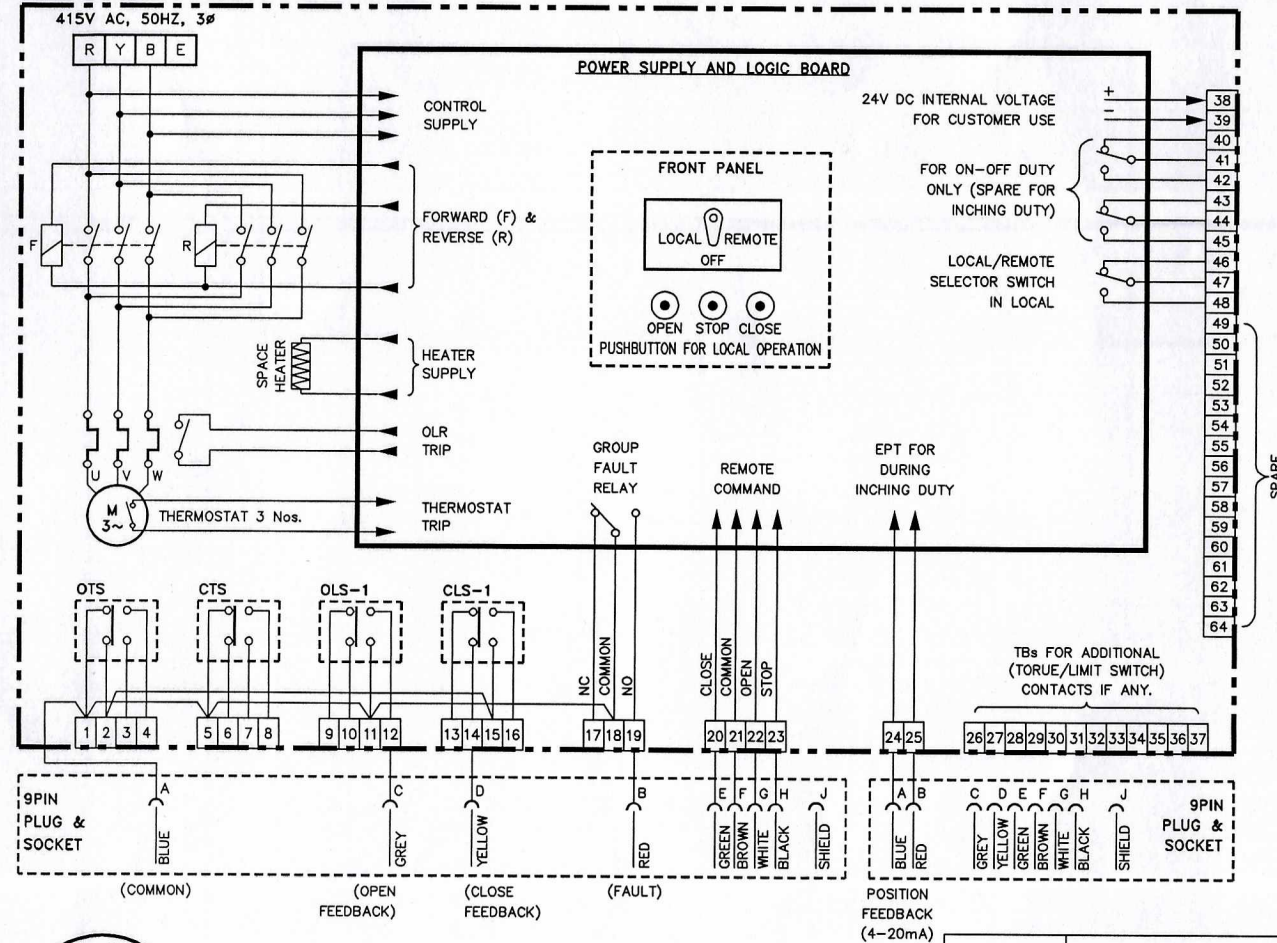


16021-885-96-3

DRAWING NO.



9 PIN PLUG & SOCKET
ARRANGEMENT (3 Nos.)
(ONE SET IS SPARE)

REV	DATE	ALTERED :	REV	DATE	ALTERED :
02	140714	CHD./APPD. :	01	170710	CHD./APPD. : Sd./KRS-SRC
ZONE	REVISED TO CHANGE DESCRIPTION IN LEGEND.		ZONE	GENERAL REVISION	

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TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

STANDARD
(FOR NTPC PROJECT)



Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPPALLI - 620014

DEPT. : C & I

CODE : 392



ALL
DIMENSIONS
ARE IN MM

SCALE
NTS

WEIGHT (Kg)

REF TO ASSY / OLD DWG

ITEM
NO

No. OF
ITEMS

TITLE

WIRING DIAGRAM (TERMINAL PLAN) FOR
ELECTRICAL ACTUATOR WITH INTEGRAL STARTER

Sheet 01 of 01

CARD
CODE

U 01

DRAWING NO :

3-96-588-12091

REV

02

POSITION OF DAMPER				
CONTACT	LIMIT SWITCH CONTACT TERMINAL No.	FULL OPEN	INTER MEDIATE	FULL CLOSE
OLS-1	9-10	-	X	X
	11-12	X	-	-
CLS-1	13-14	X	X	-
	15-16	-	-	X
OTS	1-2	-	X	X
	3-4	X	-	-
CTS	5-6	X	X	-
	7-8	-	-	X

THESE LIMIT SWITCH
CONTACTS ACT ON
DAMPER REACHING
RESPECTIVE POSITION

THESE LIMIT SWITCH
CONTACTS ACT ON
THE TORQUE SET
BEING REACHED.

'X' CONTACT CLOSED,

'-' CONTACT OPEN

NOTE

- ALL TORQUE AND LIMIT SWITCHES (OTS, CTS, OLS1, CLS1) ARE WITH 2NO+2NC CONTACTS '1NO+1NC' IS TERMINATED IN TBS 1-16, REMAINING CONTACTS ARE FOR INTERNAL USE. ANY SPARE CONTACTS WHICH ARE NOT USED INTERNALLY ARE TO BE TERMINATED IN TBS 26-37
- CTS - CLOSE TORQUE SWITCH
- OTS - OPEN TORQUE SWITCH
- OLS-1 - LIMIT SWITCHES FOR POSITION OPEN.
- CLS-1 - LIMIT SWITCHES FOR POSITION CLOSE.
- EPT - 4-20mA FEEDBACK, LVDT TYPE ELECTRONIC POSITION TRANSMITTER (FOR INCHING DUTY)
- FOR COMMANDS & EPT EITHER INTERNALLY GENERATED 24V DC OR EXTERNAL SUPPLY OF 24V DC CAN BE USED.
- M - MOTOR 3φ 415V 50 Hz AC SUPPLY.
- NO. AND SIZE OF CABLE GLANDS/PLUG AND SOCKETS
 - POWER CABLE GLAND - 1 No.
 - 3 Nos. 9PIN PLUG & SOCKET TO SUIT 4PAIRx0.5SQ.MM TYPE-G INSTRUMENTATION CABLE (OD MAX. 18.5mm (FRLS OUTER SHEATH CABLE)) WITH SOCKETS MOUNTED ON THE LIMIT SWITCH COMPARTMENT ITSELF. (PLUGS ARE SUPPLIED AS LOOSE)
- TERMINAL BLOCK NOS. AND WIRING HAS TO BE MATCHED AS INDICATED IN THIS DRAWING.