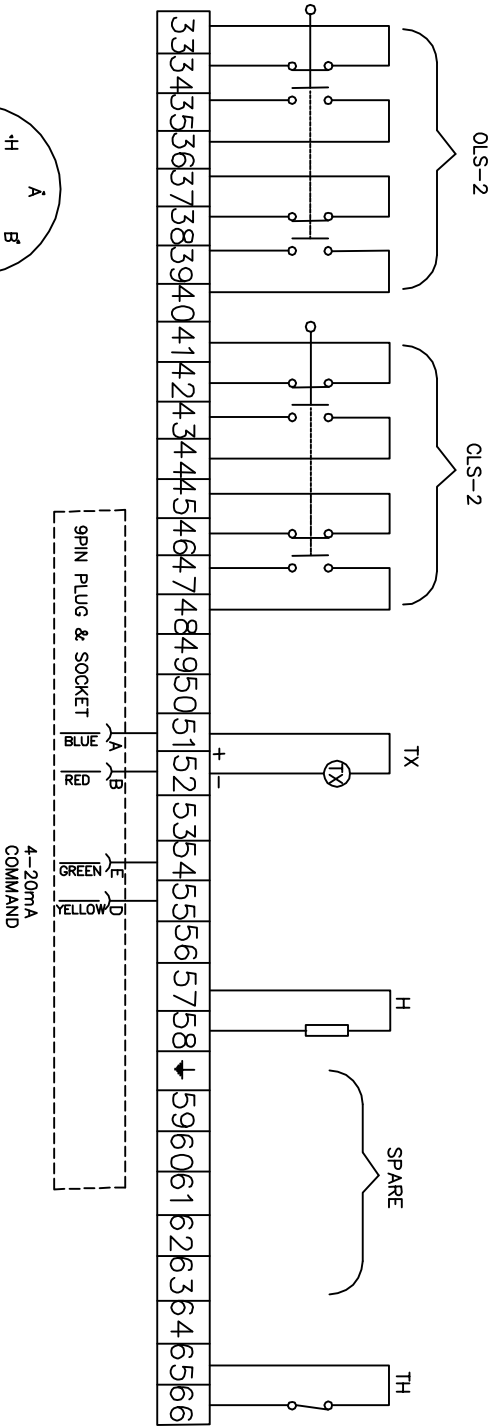
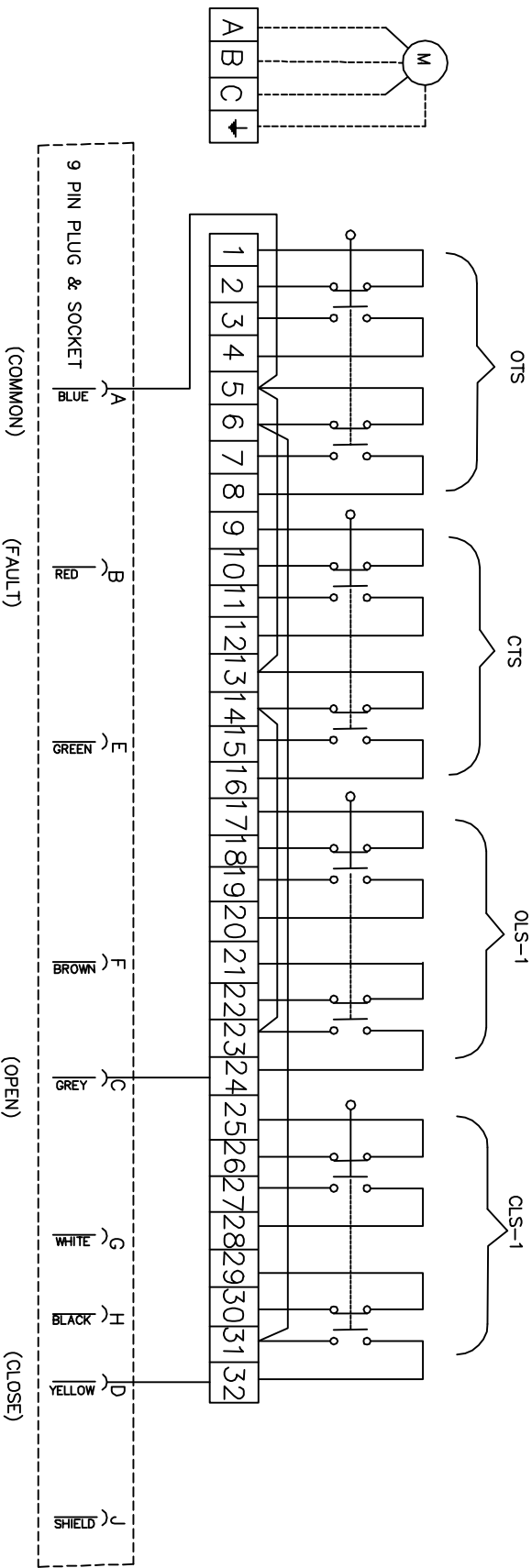


9 PIN PLUG & SOCKET
ARRANGEMENT (3 NOS.)

LEGEND

- OTS – TORQUE SWITCH FOR C.C.W ROTATION (OPEN)
- CTS – TORQUE SWITCH FOR C.W ROTATION (CLOSE)
- OLS-1 – LIMIT SWITCHES FOR POSITION OPEN
- OLS-2 – LIMIT SWITCHES FOR POSITION OPEN
- CLS-1 – LIMIT SWITCHES FOR POSITION CLOSE
- CLS-2 – LIMIT SWITCHES FOR POSITION CLOSE
- H – HEATER, 25 WATTS (APPRX.), 240V AC, 1Ø, 50HZ
- TH – THERMOSTAT
- TX – TRANSMITTER

POSITION OF DAMPER				
CONTACT	LIMIT SWITCH CONTACT TERMINAL NO.	FULL OPEN	INTERMEDIATE	FULL CLOSE
OLS-1 & OLS-2	17-18 & 33-34	-	X	X
	19-20 & 35-36	X	-	-
	21-22 & 37-38	-	X	X
	23-24 & 39-40	X	-	-
CLS-1 & CLS-2	25-26 & 41-42	X	X	-
	27-28 & 43-44	-	-	X
	29-30 & 45-46	X	X	-
	31-32 & 47-48	-	-	X
OTS	1-2 & 5-6	-	X	X
	3-4 & 7-8	X	-	-
	9-10 & 13-14	X	X	-
	11-12 & 15-16	-	-	X
CTS				
'X' CONTACT CLOSED.		'-' CONTACT OPEN		
THESE LIMIT SWITCH CONTACTS ACT ON THE TORQUE SET BEING REACHED.				

NOTE

- ACTUATOR IS PROVIDED WITH INTEGRAL POSITIONER, THYRISTOR SWITCHING DEVICE & INTEGRAL STARTER.
- WINDING THERMOSTAT SHOULD BE CONNECTED TO MOTOR CONTROL CIRCUIT.
- ALL THE CONTROL TERMINALS SHALL BE SUITABLE FOR 2 NOS. 2.5 SQ.MM STRANDED COPPER FRLS CABLE
- CABLE GLANDS OF DOUBLE COMPRESSION TYPE, BRASS MATERIAL SHALL BE PROVIDED.
- NO. AND SIZE OF CABLE GLANDS/PLUG AND SOCKETS:
 - (i) POWER CABLE GLAND-1 No.
 - (ii) CONTROL CABLE GLAND-1 No.
 - (a) 1 X Pg21 [2CX2.5 SQ.MM, FRLS OUTER SHEATH CABLE 00 (MAX.) 18mm] FOR SPACE HEATER SUPPLY.
 - (iii) 3 Nos., 9PIN PLUG & SOCKET TO SUIT 4 PAIR X 0.5 SQ.MM, FRLS OUTER SHEATH CABLE TYPE-F INSTRUMENTATION CABLE (00-MAX., -18.5mm) MOUNTED ON THE LIMIT SWITCH COMPARTMENT ITSELF.
 - (PLUGS ARE SUPPLIED AS LOOSE)
- CONTACT RATING : 5A AT 240V AC, 0.5A (INDUCTIVE) AT 220V DC
- LIMIT SWITCHES CAN BE ADJUSTED TO SET 0-100% POSITION OF DAMPER
- ALL TORQUE & LIMIT SWITCHES(OTS, CTS, OLS-1, CLS-1, OLS-2, CLS-2) ARE WITH 2NO+2NC CONTACTS
- M-MOTOR 3PH, 415V, 50HZ AC POWER SUPPLY
- FOR COMMAND OR ELECTRONICS POSITION TRANSMITTER EITHER INTERNAL 24V DC OR EXTERNAL 24V DC POWER SUPPLY CAN BE USED.

NTPC Drg No : 9591-102-PVE-Y-012A

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		NATIONAL THERMAL POWER CORPORATION LTD. KARIMNAGAR TELANGANA STPP, PH-1 (2X800MW)	
Bharat Heavy Electricals Ltd UNIT: BOILER AUXILIARIES PLANT RANIPET-632406		DRN SATHYA.S SRAVANKUMAR APPD GSN	SIGNATURE DATE 25.10.17 25.10.17 -
DEPT : C & I	ALL DIMENSIONS ARE IN MM	SCALE WEIGHT(KG)	REF TO ASSY/OLD DWG
CODE : JB2			
TITLE INTERNAL WIRING DIAGRAM FOR REGULATING TYPE DAMPER ACTUATOR (DRAWN FOR INTERMEDIATE POSITION)		CARD CODE U 01	DRAWING NO : 3-00-114-40271
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