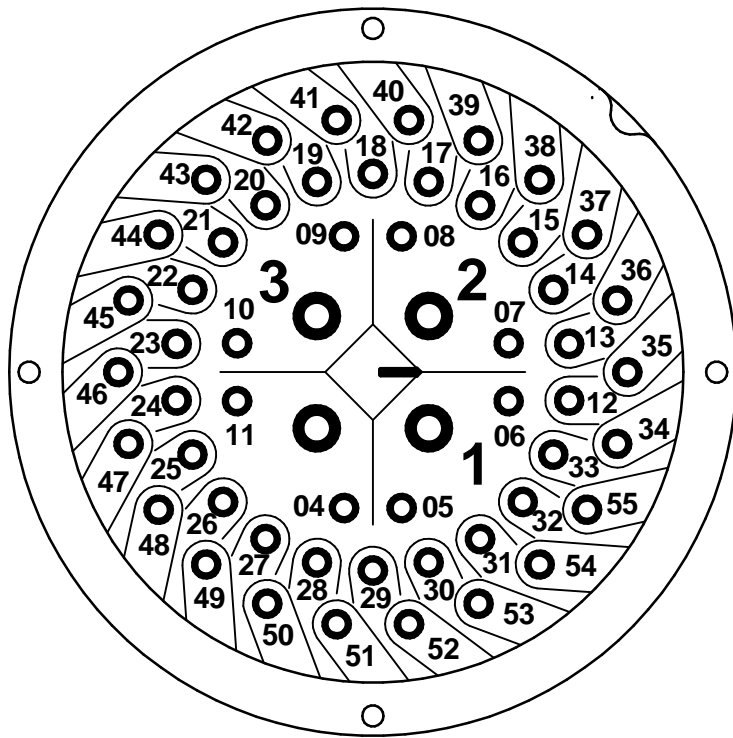


PLUG-AND-SOCKET CONNECTOR LAYOUT



LEGENDS:

- M1** ELECTRIC MOTOR
- CTS** CLOSE TORQUE SWITCH
- OTS** OPEN TORQUE SWITCH
- CLS** CLOSE LIMIT SWITCH
- OLS** OPEN LIMIT SWITCH
- TRM** THERMAL PROTECTION DEVICE (MOTOR WIND).
- HT** ANTI-CONDENSATION HEATER
- BLK** BLINKER SWITCH
- POT** POTENTIOMETER (VALVE POSITION SIGNAL)
- CPT** CURRENT POSITION TRANSMITTER (VALVE POSITION SIGNAL)
- ACTS** AUXILIARY CLOSE TORQUE SWITCH
- AOTS** AUXILIARY OPEN TORQUE SWITCH
- ACLS** AUXILIARY CLOSE LIMIT SWITCH
- AOLS** AUXILIARY OPEN LIMIT SWITCH

NOTES:

1. THE TERMINAL PLAN SHOWS THE QUARTER-TURN ELECTRIC ACTUATOR IN INTERMEDIATE POSITION, ACTUATOR CLOSES VALVE CLOCKWISE.
2. SEE ACTUATOR USER MANUAL AND DATASHEETS FOR TECHNICAL DATA, PARAMETERS AND DESCRIPTION OF THE ACTUATOR ELECTRIC AND ELECTRONIC EQUIPMENT.
3. IF THE ACTUATOR IS CONFIGURED TO BYPASS THE MOTOR PROTECTION THERMOSTAT (TRM), THE ACTUATOR WILL NO LONGER COMPLY WITH THE ESSENTIAL SAFETY REQUIREMENTS.
4. THE USER MUST FIT A OVERLOAD RELAY. THE RELAY MUST BE SIZED ACCORDING TO THE OVERCURRENT PROT. DEVICE SETTING VALUE FOR THE MOTOR.
5. REFER TO THE MOTOR DATA SHEET FOR THIS VALUE. THE OVERLOAD RELAY MUST BE SIZED TO ENSURE THAT IT TRIPS WITHIN 10 SECONDS IN A FAULT CONDITION.
6. THE USER MUST COMPLETE A RISK ASSESSMENT AND IMPLEMENT WHATEVER MEASURES ARE REQUIRED TO ENSURE THAT THE RESULTANT SYSTEM COMPLIES WITH ALL APPLICABLE LEGISLATION.

PARAMETER	VALUE	DESCRIPTION
TYPE	G	QUARTER-TURN ELECTRIC ACTUATOR, STANDARD UNIT (SYNERSET), MECHANICAL SWITCH MECH
MAIN POWER SUPPLY	0	A.C. THREE PHASE
FEEDBACK ANALOG POS. SIG.	1	0/4-20 mA CPT CURRENT POSITION TRANSMITTER, 2 WIRES
HEATER	3	ANTI-CONDENSATION HEATER, 110-120VAC
LIMIT SWITCHES	1	STANDARD+ EXTRA LIMIT SWITCHES: 2 OPEN AND 2 CLOSE LIMIT SWITCHES (DPDT)
TORQUE SWITCHES	1	STANDARD+ EXTRA TORQUE SWITCHES: 2 OPEN AND 2 CLOSE TORQUE SWITCHES (DPDT)

ISSUE	DESCRIPTION	DATE	ISSUE	DESCRIPTION	DATE
1	FIRST PRODUCTION RELEASE	17-08-21			

SHEET 1/2	DATE	SIGN.	TERMINAL PLAN WD CKQ STD, MSM, 3PH, 2WCPT, HT115, LIM+ALS, TOR+ATS	This drawing and the information it contains are property of Rotork Controls Limited, and they will not be reproduced or disclosed, in whole or in part, without the prior written consent of Rotork.
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SWITCH CONTACT DIAGRAM

SWITCH	CLOSED	← INTERMEDIATE →	OPEN
*CTS	4-5	=====	=====
	6-7	=====	=====
*OTS	8-9	=====	=====
	10-11	=====	=====
CLS	12-13	=====	=====
	14-15	=====	=====
OLS	16-17	=====	=====
	18-19	=====	=====
BLK	24-25	-----	-----

* CTS & OTS FEEDBACK IS PROVIDED BY CONSIDERING THE TQ. OPERATIONS.

NOTES:


1. DPDT TORQUEN(CTS, OTS, ACTS, AOTS) AND LIMIT MICROSWITCHES (CLS, OLS, ACLS, AOLS) HAVE 1NO+1NC CONTACTS, ONLY SAME POTENTIAL CAN BE CONNECTED THROUGH BOTH CIRCUITS. STANDARD 250AVC/5A, 24VDC 3A. GOLD CONTACT SWITCHES (LOW ENER. CIRCUITS) UNDER REQUEST
2. LIMIT SWITCH POSITIONS NO / NC CONTACT SETTABLE BY CAM (ACTUATOR)
3. EXTERNAL POWER SUPPLY FOR HEATER: HEATER MUST BE POWERED ACCORDING TO HEATER RATED VOLTAGE (SEE ACTUATOR ORDER FORM OR ORDER ACKNOWLEDGEMENT), A 250V 50mA QUICK BLOW FUSE MUST BE INSTALLED FOR 120V AND 240V RATED HEATERS
4. CPT ELECTRONIC POSITION TRANSMITTER: VOLTAGE/CURRENT 2, 3 AND 4 WIRES CONFIGURATIONS ARE POSSIBLE. CHECK PROPER TECHNICAL DATASHEET.
5. PRECISION POTENTIOMETER (POT): CHECK OHMIC VALUE

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ISSUE	DESCRIPTION	DATE	ISSUE	DESCRIPTION	DATE
1	FIRST PRODUCTION RELEASE	17-08-21			
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