



NOTES:

- PRINTED CIRCUIT ASSEMBLY TO BE BUILT USING TENNANT QPL BILL OF MATERIALS: **BOM1218382revN**.
- WORKMANSHIP STANDARD PER: IPC-J-STD-001E, IPC-A-610E CLASS 2, SOLDERING AND ELECTRICAL COMNETIONS: IPC-S-815B, OR MORE CURRENT VERSIONS OF THESE STANDARDS.
- APPLY LABEL/LABELS WITH THE FOLLOWING INFORMATION:
TENNANT PART NUMBER AND REVISION [EXAMPLE **1218382-05**]
(NUMBER AND REV MUST MATCH THIS DRAWING)
MANUFACTURER'S LABEL WITH SERIAL NUMBER
PLACE LABELS SO THEY ARE VISIBLE FROM THE TOP OF ASSEMBLY.
- CONFORMAL COATING APPLIED TO TOP AND BOTTOM SIDES OF PCB.
TOPSIDE NOTES: NO COATING ON CONNECTOR MATING SURFACES.
NO COATING IN 12MM DIAMETER AROUND MOUNTING HOLES.
BOTTOM SIDE NOTES: NO COATING IN DEFINED HEATSINK AREA, AND IN 12MM DIAMETER AROUND MOUNTING HOLES.
COATING MFR: HUMISEAL 1B73
- EACH ASSEMBLY TO BE ICT AND FUNCTIONALLY TESTED.
- MANUFACTURED PER ROHS/LEAD FREE STANDARDS.
- DIMENSIONS ARE FOR REFERENCE ONLY.
- APPLY NON-CORROSIVE PCB-SAFE RTV AROUND AND BETWEEN THE SEVEN LARGE CAPACITORS SHOWN, AND COMPONENTS C152, C24, L1 AND L2.
- USE MOMENTIVE RTV108 OR EQUIVALENT.
- MINIMUM BEAD DIA - 3MM
- HEATSINK MOUNTING AREA: THIS AREA ON BACK SIDE TO BE FREE OF SOLDER BUMPS. THE SOLDER PROCESS MUST PREVENT A BUILDUP OF SOLDER IN THIS AREA.
- PCB MANUFACTURING NOTES ARE FOUND ON THE DRILL DRAWING LAYER OF THE GERBERS.
- HEATSINK HARDWARE:
(2) SCREW, PAN HEAD, 316 SS, DIN 7985, M3 X 0.5 X 8MM. McMASTER CARR #92000A118 OR EQUIVALENT.
(2) WASHERS, M4, FLAT, PHENOLIC, GENERIC.
TORQUE SCREWS TO 4-5 INCH-LBS.
- U6 TO BE PROGRAMMED WITH FIRMWARE:
Q30072-002: (LIGHTNING_MAIN_SWEEP_PRODUCTION_IMAGE_1_04.BIN).

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SEE NOTE #1.	CIRCUITBOARD, MAIN SWEEP [M17/LIGHTNING]	1
2	SEE NOTE #11.	SCREW, PAN HEAD, SS, M3 X 0.5 X 8MM	2
3	SEE NOTE #11.	WASHER, M3, FLAT, PHENOLIC.	2
4	1222537-00	PAD, SIL, CIRCUITBOARD [M17, MAIN SWEEP]	1
5	1222536-01	HEATSINK, CIRCUITBOARD [M17, MAIN SWEEP]	1

REV-04 CHANGES:
1) CHANGE THE TWO HEATSINK SCREWS FROM 10MM TO 8MM LONG. THE 10MM LONG SCREWS WERE EXTENDING OUT OF THE HEATSINK.
NOTE: NO SOFTWARE OR QPL BOM CHANGES WERE MADE.

REV-05 CHANGES:
1) CHANGE QPL BILL OF MATERIAL TO: BOM1218382revN. CHANGED TO NON-USB MICRO.

MATERIAL SPECIFICATIONS: NOTED				OTHER TREATMENTS AND FINISHES				PAINT - COLOR				CHANGED BY: JOHN HAEG				REV				ECO				WELDING NOTATION IN ACCORDANCE WITH AWS A2.4-15: UNLESS OTHERWISE SPECIFIED DIMENSION TOLERANCING IN ACCORDANCE WITH ASME Y14.5-2009 ALL UNTOLERANCED DIMENSIONS ARE CONTROLLED BY: X.X ±1.5 ±[.06] X.XX ±0.75 ±[.030] X.XXX ±0.250 ±[.0098] ANGLES ±20°				GENERAL NOTES PRIMARY DIMENSIONS ARE METRIC. REFERENCE DIMENSIONS WITH BRACKETS ARE INCH. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES. PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY.											
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PART NAME: CIRCUITBOARD ASSY [M17, MAIN SWEEP]				GLOSS				PERFORMANCE				ACCEPTANCE				DATE:				09/08/2022				SHEET 1 OF 1								DWG D SIZE				PART NUMBER 1218382			
																07/11/2017				MDR:																			