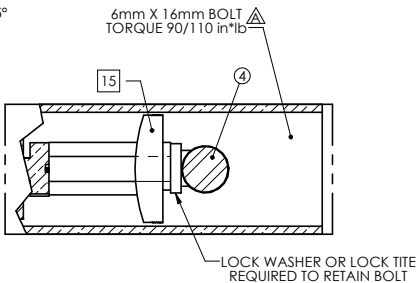
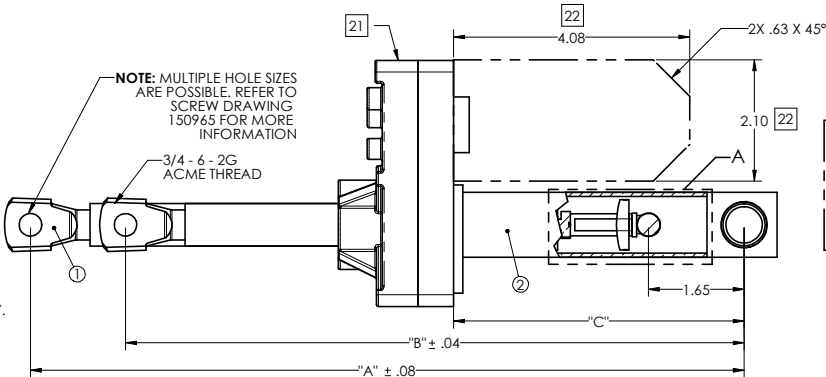


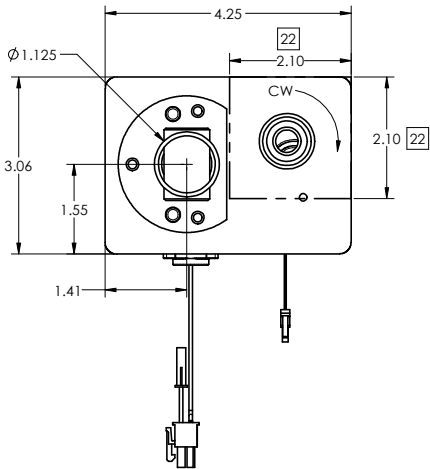
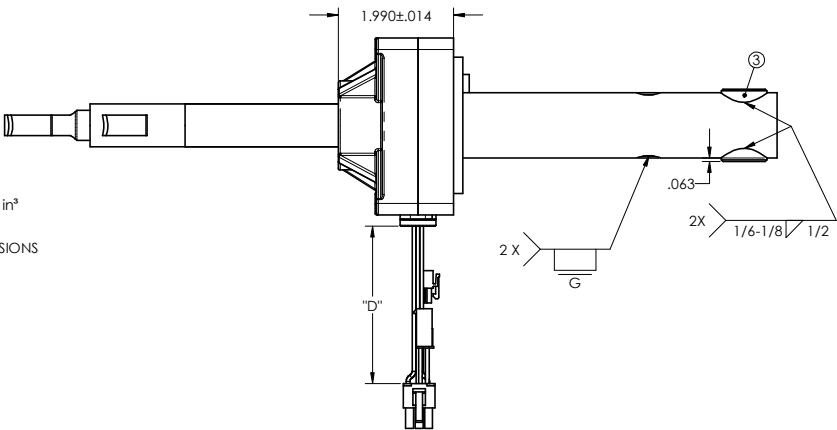
3D GEOM: 419474

NOTES:

1. RATED VOLTAGE: 36 VDC
2. EXTENDING AVERAGE SPEED WITH 400 lbs LOAD: 4.5 s/in $\pm 20\%$.
RETRACTING AVERAGE SPEED WITH 400 lbs LOAD: 4.5 s/in $\pm 20\%$.
3. 88% DUTY CYCLE: 350 lb MAX AIR-COOLED (SEE DWG ZE0248).
4. 72% DUTY CYCLE: 450 lb MAX
5. 50% DUTY CYCLE: 750 lb MAX
6. GEAR SPEC: 36:1 GEAR RATIO.
7. RMS CURRENT: 3.3 A MAX, STALL CURRENT: 6.0 A MAX
8. MINIMUM EXTENSION/RETRACTION FORCE: 750 lb
9. MINIMUM RETRACTING/EXTENSION FORCE: 900 lb
10. MINIMUM BRAKING CAPACITY: 900 lb
11. PART NUMBER MUST BE CLEARLY MARKED ON MOTOR.
12. THIS MOTOR HAS THRUST BEARINGS LOCATED ON BOTH SIDES OF DRIVE GEAR.
13. CLASS B INSULATION REQUIRED.
14. MOTOR WIRE TO 2-PIN RECEPTACLE: 18 AWG, RATED AT 105 °C, 300 V, UL AND CSA APPROVED. LENGTH = RECEPTACLE + WIRE. 3.0" < LENGTH < 9.0"
15. WASHER ASSEMBLED AS SHOWN WITH CURVED SIDE TOWARD GEAR HOUSING.
16. QUADRATURE SENSOR WIRE: 22 AWG, RATED AT 105 °C, 300 V, UL AND CSA APPROVED.
17. 6-PIN RECEPTACLE TO 2-PIN PLUG: 18 AWG, RATED AT 105 °C, 300 V, UL AND CSA APPROVED. LENGTH = PLUG + WIRE. 3.0" < LENGTH < 9.0"
18. QUADRATURE SPEC: 432 COUNTS/in.
RING MAGNET: 72 POLES, ~ 172 G/POLE
19. 0.025 MAX END PLAY WITH 50 lb LOAD, MEASURED BETWEEN MOUNTING HOLES AT APPROXIMATELY MID-STROKE WITH COMPRESSION AND TENSION.
20. LIFT MOTOR ASSEMBLY ON IQC TEST FIXTURE, TEST CRITERIA:
NOISE MEASURED WITH 411 lbs LOAD, AT 36in AWAY, AND A 40 dB AMBIENT NOISE WIEGHTED A: EXTENDED AND RETRACTED MUST MEASURE LESS THAN 55 dB WEIGHTED A.
21. HIGH PRESSURE GREASE REQUIRED (COASTAL PREMIUM MOLY EP OR EQUIVALENT WITH ICON APPROVAL) MINIMUM QTY REQUIRED: 2.0 in³ PACKED IN GEAR BOX, SCREW AND ACME NUT.
22. INDICATES MOTOR SIZE LIMITATIONS, MUST NOT EXCEED STATED DIMENSIONS
23. THIS MOTOR INCLUDES INTEGRATED STOP BRACKET PARTS AS INDICATED IN TABLE AND ON SECTION B-B



DETAIL A
SCALE 2:1



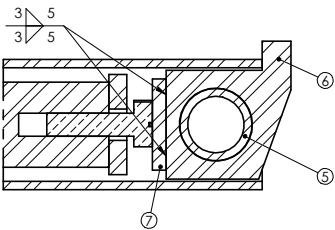
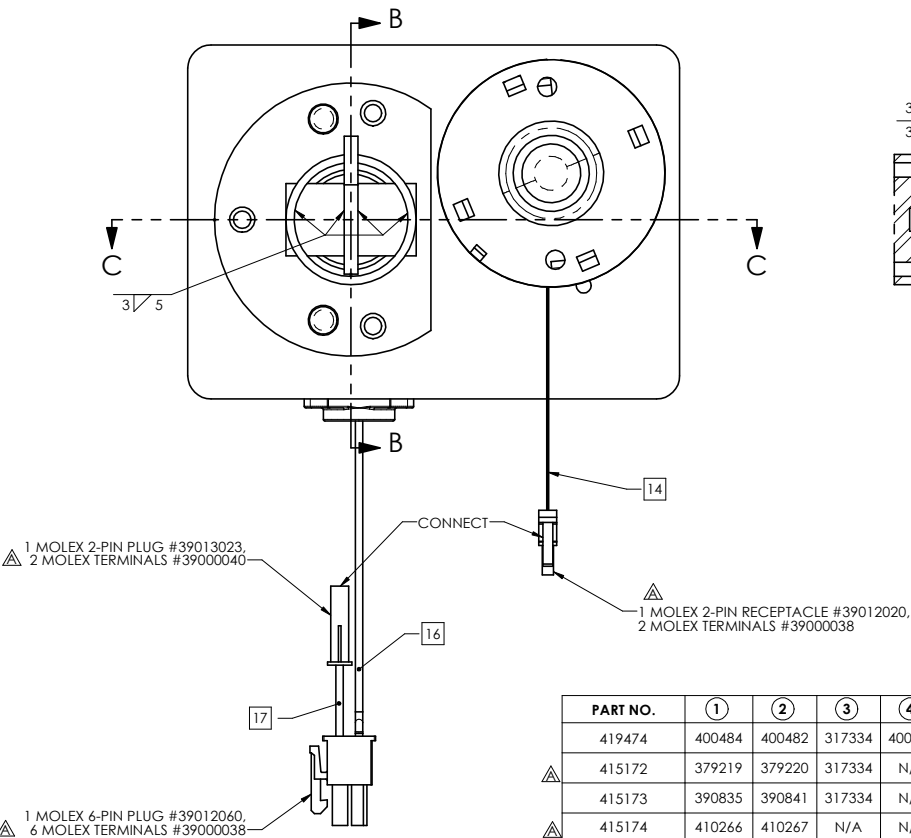
| RELEASE APPROVALS | | DATE | PRODUCTS | TOLERANCES | TITLE: MTR.DC.LIFT.PUSH/PULL.W/MOLEX |
|-------------------|-------------|---------|------------|------------------|--------------------------------------|
| DRAWN BY | R.SKAPPLE | 9/25/19 | ANAEROBIC | METRIC .XX ± .08 | BASE PRODUCT: MULTIPLE |
| CHECKED BY | E.TINNEY | 10/1/19 | ANAEROBIC | XX ± .05 | SCALE: 1:1 |
| ENG. APP. | E.TINNEY | 10/1/19 | TREADMILLS | XX ± .03 | SHEET: 1 OF 3 |
| MANUFACTURE | MANUFACTURE | 10/1/19 | OTHER | ANGLES ± | |

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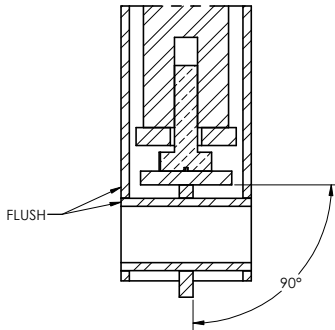
3D GEOM: 419474

| REV | | | | REVISIONS | | | |
|--|----|------|-------------|-----------|----|------|-------------|
| DRAWINGS PREVIOUS TO LAST REVISION DATE ARE OBSOLETE | | | | | | | |
| REV | BY | DATE | DESCRIPTION | REV | BY | DATE | DESCRIPTION |
| | | | | | | | |

23 INTEGRATED STOP BRACKET



SECTION B-B
SCALE 2 : 1



SECTION C-C
SCALE 2 : 1

| PART NO. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | EXTENDED "A" | RETRACTED "B" | LENGTH "C" | LENGTH "D" | STROKE | NOTES | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------------|---------------|------------|------------|--------|-------|---|---|-------|
| 419474 | 400484 | 400482 | 317334 | 400483 | N/A | N/A | N/A | 15.00 | 12.52 | 5.02 | 6.0 | 2.48 | 4 | 6 | 8 | 12 |
| 415172 | 379219 | 379220 | 317334 | N/A | N/A | N/A | N/A | 9.58 | 6.73 | 3.61 | 6.0 | 2.85 | 4 | 6 | 8 | 12 |
| 415173 | 390835 | 390841 | 317334 | N/A | N/A | N/A | N/A | 17.15 | 12.90 | 5.02 | 6.0 | 4.25 | 4 | 6 | 8 | 12 |
| 415174 | 410266 | 410267 | N/A | N/A | 410268 | 410269 | 379949 | 17.86 | 10.85 | 7.93 | 6.0 | 7.01 | 5 | 6 | 9 | 12 23 |
| 415904 | 416076 | 390841 | 317334 | N/A | N/A | N/A | N/A | 13.12 | 8.90 | 5.02 | 6.0 | 4.22 | 4 | 6 | 8 | 12 |
| 423419 | 318979 | 303583 | N/A | N/A | N/A | N/A | N/A | 16.28 | 9.93 | 7.48 | 6.0 | 6.35 | 5 | 6 | 9 | 12 |

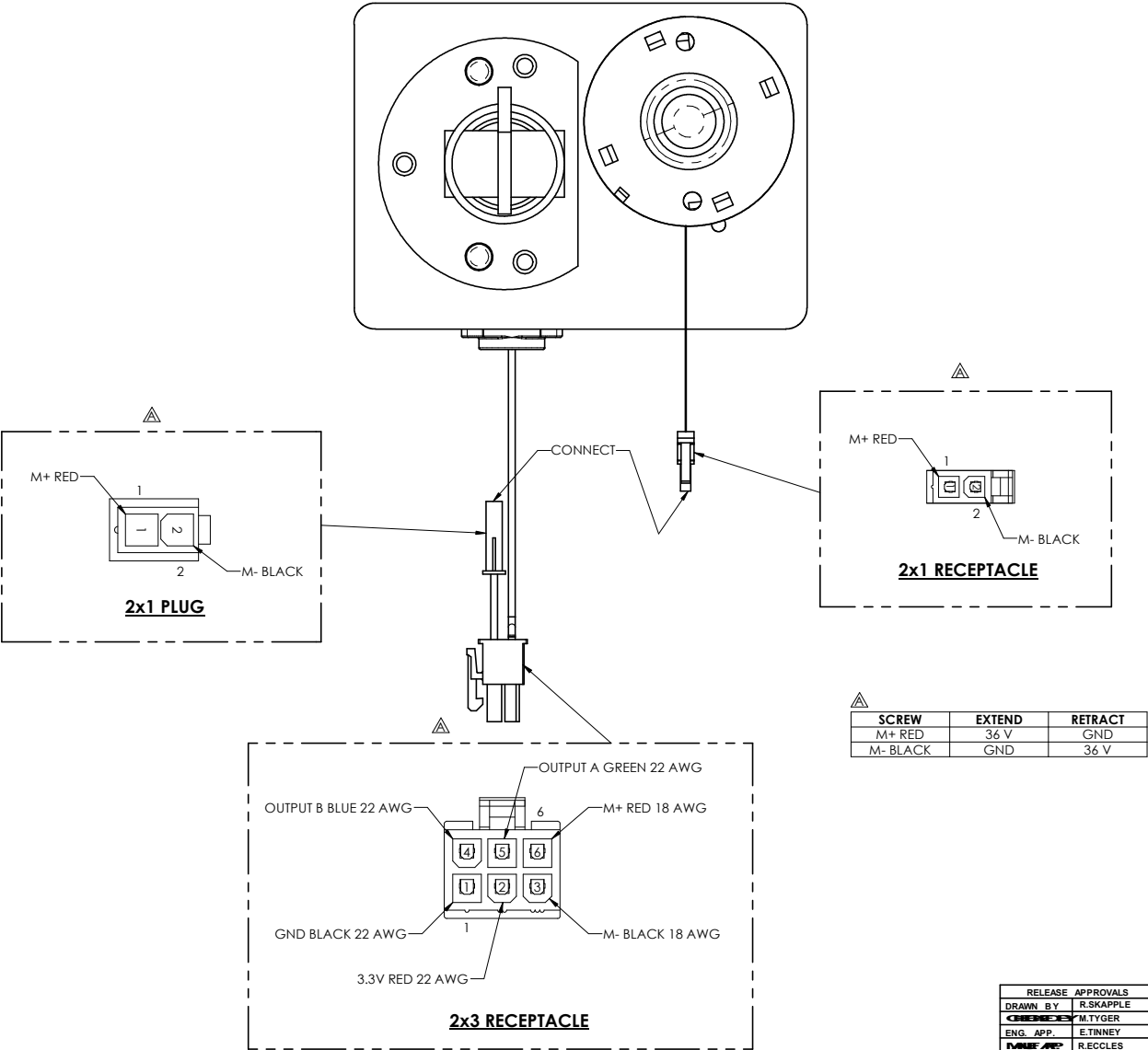
| RELEASE | | APPROVALS | | DATE | | PRODUCTS | | TOLERANCES | | TITLE | |
|-----------|--|-----------|--|---------|--|--------------|--|----------------|--|-------------------------------|--|
| DRAWN BY | | R.SKAPPL | | 9/25/19 | | X. AEROBIC | | METRIC X ± .08 | | MTR.DC.LIFT,PUSH/PULL,W/MOLEX | |
| ENG. APP. | | E.TINNEY | | 10/1/19 | | - ANAEROBIC | | .XX ± 0.250 | | BASE PRODUCT: MULTIPLE | |
| RECCLES | | R.ECCLES | | 10/1/19 | | - TREADMILLS | | .XX ± 0.03 | | SCALE: 1:1 | |
| | | | | | | OTHER | | .XXX ± 0.010 | | SHEET: 2 OF 3 | |
| | | | | | | | | ANGLES ± | | | |

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D

3D GEOM: 419474

| REVISIONS | | | |
|--|----|-------------|------|
| DRAWINGS PREVIOUS TO LAST REVISION DATE ARE OBSOLETE | | | |
| REV | EN | DESCRIPTION | DATE |
| | | | |



| RELEASE | APPROVALS | DATE | PRODUCTS | TOLERANCES | TITLE |
|--|-----------|---------|--------------|----------------|-------------------------------|
| DRAWN BY | R.SKAPPLE | 9/25/19 | X. AEROBIC | METRIC X ± .08 | MTR.DC.LIFT,PUSH/PULL,W/MOLEX |
| ENGINEER | M.TYGER | 10/1/19 | - ANAEROBIC | .XX ± 0.250 | BASE PRODUCT: MULTIPLE |
| ENG. APP. | E.TINNEY | 10/1/19 | - TREADMILLS | .XX ± 0.03 | SCALE: 1:1 |
| REVISION | R.ECCLES | 10/1/19 | OTHER | .XXX ± 0.010 | SHEET: 3 OF 3 |
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