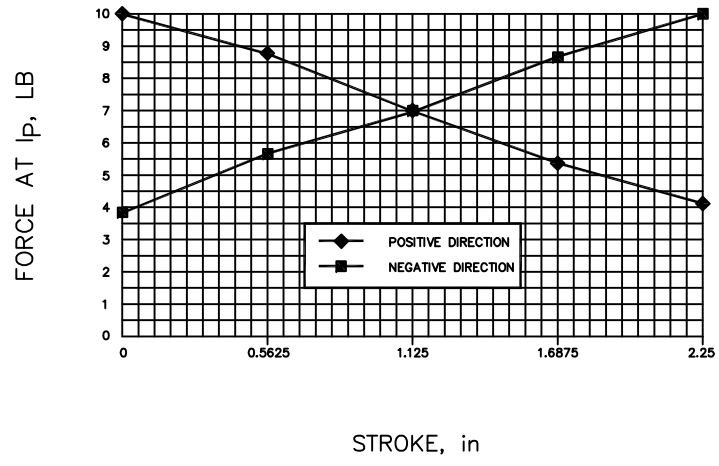


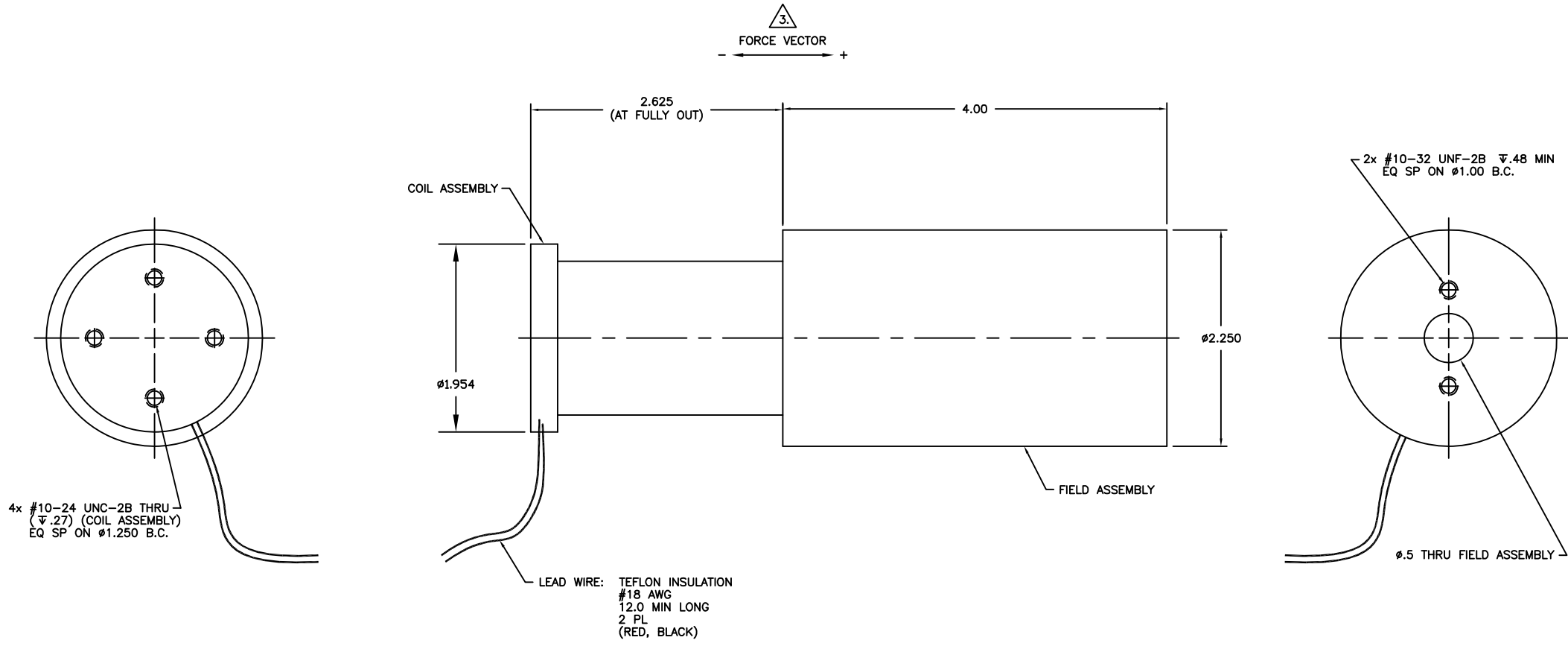
| WINDING CONSTANTS * | UNITS | TOL | SYM | WDG A |
|--------------------------|----------------|---------|----------------|-------|
| DC RESISTANCE | OHMS | ±12.5% | R | 0.91 |
| VOLTAGE @ F _P | VOLTS | NOMINAL | V _P | 11.8 |
| CURRENT @ F _P | AMPERES | NOMINAL | I _P | 13.0 |
| FORCE SENSITIVITY | LB/AMP | ±10% | K _F | 0.77 |
| BACK EMF CONSTANT | VOLTS/(FT/SEC) | ±10% | K _B | 1.04 |
| INDUCTANCE | MICRO-HENRY | ±30% | L | 160 |

| LTR | ECN NO. | DESCRIPTION | DRN | APP'D | DATE |
|-----|---------|-------------------|-----|-------|----------|
| A | 010716R | INITIAL RELEASE | RG | MG | 07/24/01 |
| B | 010978 | UPDATE PARAMETERS | RG | MG | 08/09/01 |
| C | 011353 | UPDATE PARAMETERS | RLE | MG | 11/08/01 |

| LINEAR ACTUATOR PARAMETERS * | UNITS | SYM | VALUE |
|---|-----------|-----------------|-------|
| PEAK FORCE ** | LB | F _P | 10.0 |
| CONTINUOUS STALL FORCE *** | LB | F _{CS} | 3.65 |
| ACTUATOR CONSTANT | LB/√WATT | K _A | 0.81 |
| ELECTRICAL TIME CONSTANT | MICRO-SEC | τ _E | 176 |
| MECHANICAL TIME CONSTANT | MILLI-SEC | τ _M | 7.06 |
| POWER I ² R @ F _P | WATTS | P _P | 154 |
| STROKE | INCH | | 2.25 |
| CLEARANCE ON EACH SIDE OF COIL | INCH | | 0.015 |
| THERMAL RESISTANCE OF COIL | °C/WATT | θ _{th} | 6.5 |
| MAX ALLOWABLE TEMP OF COIL | °C | TEMP | 155 |
| WEIGHT OF COIL ASSEMBLY | LBS | WT _c | 0.2 |
| WEIGHT OF FIELD ASSEMBLY | LBS | WT _f | 3.0 |



* @ FULLY OUT POSITION
 ** 10 SEC @ 25°C AMBIENT, 155°C COIL TEMP
 *** 25°C AMBIENT, 155°C COIL TEMP



3. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

2. MECHANICAL OVERTRAVEL IN THE POSITIVE (+) DIRECTION IS .050 MINIMUM.

1. INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1982.

NOTES: UNLESS OTHERWISE SPECIFIED

P.A.F.

| | |
|---|--|
| THIRD ANGLE PROJECTION | UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN INCHES -BREAK SHARP EDGES .015 MAX. -SURFACE ROUGHNESS √125 -DIMENSIONS APPLY AFTER FINISH -MAX FILLET R.010 |
| BEI/KIMCO Magnetics Division PROPRIETARY DOCUMENT | TOLERANCES: DECIMALS ANGULAR .X ± .03 ±0° 30' .XX ± .01 .XXX ± .005 DO NOT SCALE DRAWING |
| THIS DOCUMENT IS THE PROPERTY OF BEI/KIMCO Magnetics Division AND MAY NOT BE REPRODUCED WITHOUT PERMISSION, OR USED FOR OTHER THAN AUTHORIZED PURPOSES. | |

BEI KIMCO MAGNETICS DIVISION
 SAN MARCOS, CA 92069

| | | |
|---------------------------------|-------------------------|--------------------------|
| DRAWN R. GUERRERO | DATE 07/24/01 | TITLE LINEAR ACTUATOR |
| MECH CHECK MCGHEE | DATE 11/08/01 | |
| APPD M. GODKIN | DATE 07/24/01 | REV C |
| FILE NO. L:\TOP LEVEL\LA\... | SIZE C | FSCM NO. 55789 |
| | DWG NO. LA23-55-001A | SCALE 1/1 |
| | | SHEET 1 OF 1 |

LA23-55-001A