

D

C

B

A

| MODEL NUMBER | STACK DIM<br>in $\pm .025$<br>mm $\pm .64$ | LENGTH "A"<br>in $\pm .005$<br>mm $\pm .13$ | ROTOR DIM<br>in $\pm .005$<br>mm $\pm .13$ | LENGTH "B"<br>in $\pm .005$<br>mm $\pm .13$ |
|--------------|--------------------------------------------|---------------------------------------------|--------------------------------------------|---------------------------------------------|
| B23-13       | .500                                       | 12.70                                       | .505                                       | 12.83                                       |
| B23-25       | 1.000                                      | 25.40                                       | 1.010                                      | 25.65                                       |
| B23-38       | 1.500                                      | 38.10                                       | 1.515                                      | 38.48                                       |
| B23-51       | 2.000                                      | 50.80                                       | 2.020                                      | 51.31                                       |
| B23-64       | 2.500                                      | 63.50                                       | 2.525                                      | 64.14                                       |
| B23-76       | 3.000                                      | 76.20                                       | 3.030                                      | 76.96                                       |
| B23-89       | 3.500                                      | 88.90                                       | 3.535                                      | 89.79                                       |
| B23-102      | 4.000                                      | 101.60                                      | 4.040                                      | 102.62                                      |
| B23-114      | 4.500                                      | 114.30                                      | 4.545                                      | 115.14                                      |
| B23-127      | 5.000                                      | 127.00                                      | 5.050                                      | 128.27                                      |
| B23-140      | 5.500                                      | 139.70                                      | 5.555                                      | 141.10                                      |
| B23-152      | 6.000                                      | 152.40                                      | 6.060                                      | 153.92                                      |
| B23-165      | 6.500                                      | 165.10                                      | 6.565                                      | 166.75                                      |
| B23-178      | 7.000                                      | 177.80                                      | 7.070                                      | 179.58                                      |
| B23-191      | 7.500                                      | 190.50                                      | 7.575                                      | 192.41                                      |
| B23-203      | 8.000                                      | 203.20                                      | 8.080                                      | 205.23                                      |
| B23-216      | 8.500                                      | 215.90                                      | 8.585                                      | 218.06                                      |
| B23-229      | 9.000                                      | 228.60                                      | 9.090                                      | 230.89                                      |
| B23-241      | 9.500                                      | 241.30                                      | 9.595                                      | 243.71                                      |
| B23-254      | 10.000                                     | 254.00                                      | 10.100                                     | 256.54                                      |
| B23-267      | 10.500                                     | 266.70                                      | 10.605                                     | 269.37                                      |
| B23-279      | 11.000                                     | 279.40                                      | 11.110                                     | 282.19                                      |
| B23-292      | 11.500                                     | 292.10                                      | 11.615                                     | 295.02                                      |
| B23-305      | 12.000                                     | 304.80                                      | 12.120                                     | 307.85                                      |

ROTOR SHOULD BE MOUNTED CONCENTRIC WITHIN .004 WITH RESPECT TO STATOR OD

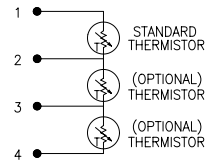
MOTOR DIMENSIONS SHOWN APPLY ONLY IN A MACHINING OR TEST FIXTURE AND NOT IN THE FREE OR UNRESTRICTED STATE

DETAILS OF MOTOR SHOWN ARE GENERIC ACTUAL MOTOR MAY DIFFER IN APPEARANCE

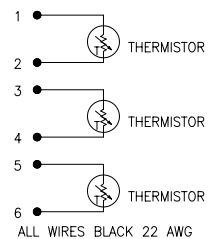
OFFSET SHOULD EQUAL (B-A)/2  $\pm 0.025$  IN

MOTOR ROTATION WILL BE IN THE CLOCKWISE DIRECTION AS VIEWED FROM THE LEAD SIDE WHEN ENERGIZED IN THE SEQUENCE WHITE-BLACK-RED

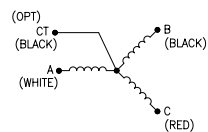
ONE THERMISTOR IS STANDARD



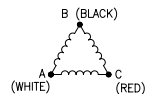
OPTIONAL 3 THERMISTOR CONFIG



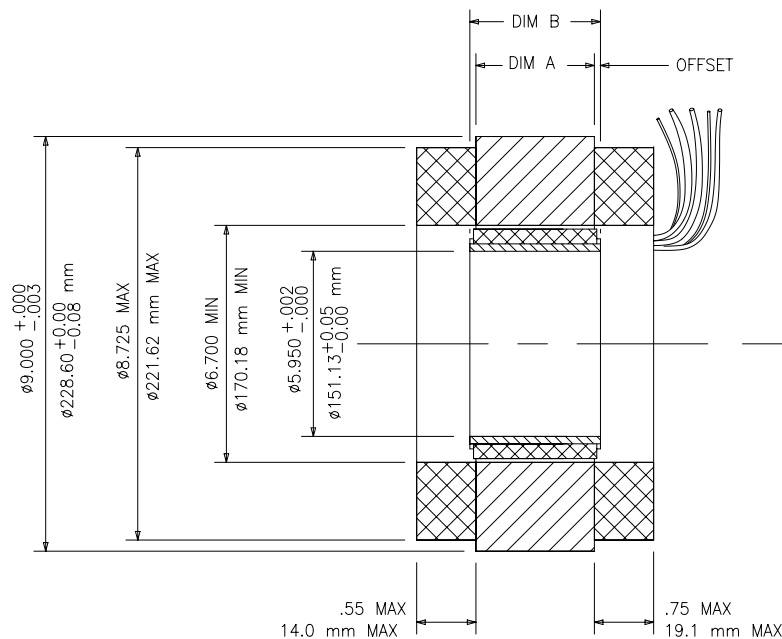
WYE CONFIGURATION



DELTA CONFIGURATION



CONSULT FACTORY FOR SIX LEAD CONFIGURATION



SECTION AA

LEAD LENGTH 16 in MIN  
MOTOR WIRE GAUGE  
DETERMINED BY WINDING

LEAD SIDE

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:

FRACTIONS  $\pm 1/64$  DECIMALS  $\pm .01$  ANGLES  $\pm 1^\circ$   
.XX =  $\pm .01$   
.XXX =  $\pm .005$

MATERIAL N/A

FINISH N/A

DO NOT SCALE DRAWING

MOTION CONTROL SYSTEMS, INC.  
New River, Virginia 24129

FRAMELESS MOTOR PHYSICAL SPECIFICATION  
B23-XXX WITH VARNISHED WINDINGS  
(5.950 ID)

| SIZE      | SCALE      | DWG NO.                | REV.         |
|-----------|------------|------------------------|--------------|
| B         | NONE       | 2027174                | A            |
| CHKD DATE | TD 11-8-01 | DWG DATE : DC 10-16-01 | SHEET 1 OF 1 |