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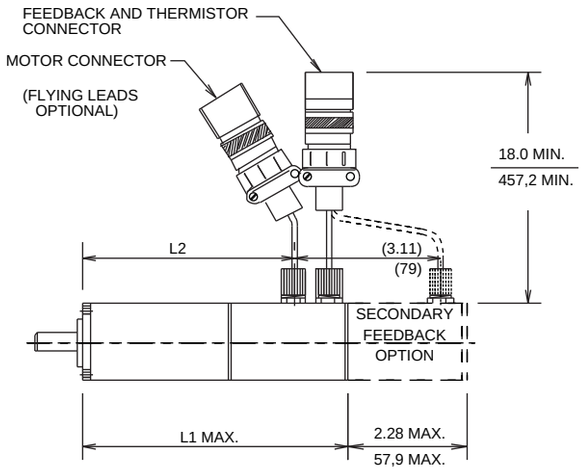
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## DIMENSIONS. . .R20 Series

### SIDE VIEW




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX. | L2 REF. |
|---|---|---|
| **R21** | 6.38 | (4.93) |
| **R22** | 7.38 | (5.93) |
| **R23** | 8.38 | (6.93) |
| **R24** | 9.38 | (7.93) |

Note: L1 includes primary feedback device.

### METRIC (MILLIMETERS)

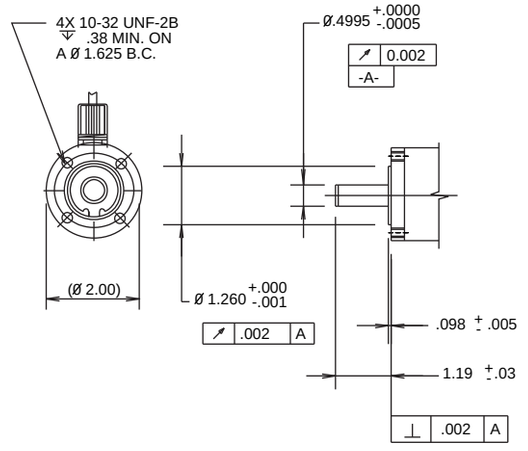
| MODEL NUMBER | L1 MAX. | L2 REF. |
|---|---|---|
| **R21** | 162.1 | (125.2) |
| **R22** | 187.5 | (150.6) |
| **R23** | 212.9 | (176.0) |
| **R24** | 238.3 | (201.4) |

Note: L1 includes primary feedback device.

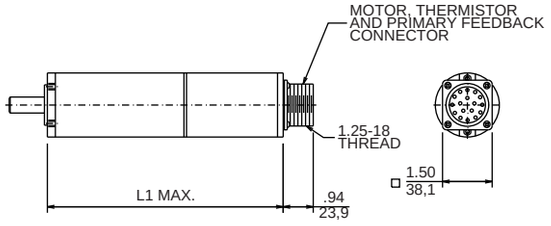
## MOUNTING AND SHAFT OPTIONS

### FRONT VIEW

### ENGLISH (INCHES)

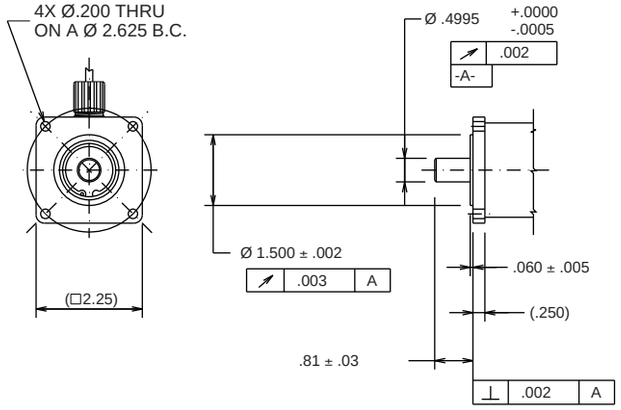



### REAR MOUNTED MS CONNECTOR OPTION




NOTE:
1. Available for motors with primary feedback only
2. MS connector is the same as used for the primary and secondary on square brushless motors.

### NEMA 23 (INCHES)




NOTE:

Ø.2500 SHAFT OPTION IS AVAILABLE. CONSULT APPLICATION ENGINEERING.

## CONNECTORS

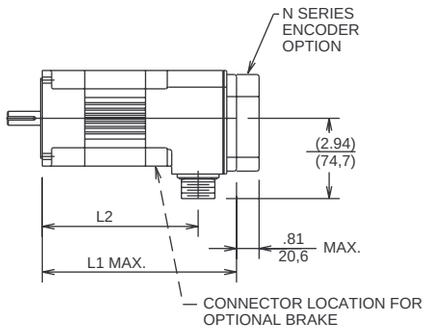
| R20 SERIES CONNECTORS | |
|---|---|
| **MOTOR** | MS3101A20-4P |
| **PRIMARY FEEDBACK** | MS3101A20-7P |
| **PRIMARY PLUS SECONDARY FEEDBACK** | MS3101A20-29P |



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# DIMENSIONS. . .R30 Series

SIDE VIEW




## ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R32** | 7.09 | (5.62) |
| **R33** | 8.09 | (6.62) |
| **R34** | 9.09 | (7.62) |
| **R35** | 10.09 | (8.62) |

Note: L1 includes primary feedback device.

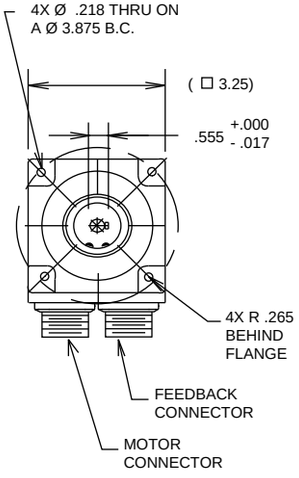
## METRIC (MILLIMETERS)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R32** | 180.1 | (142.7) |
| **R33** | 205.5 | (168.1) |
| **R34** | 230.9 | (193.5) |
| **R35** | 256.3 | (218.9) |

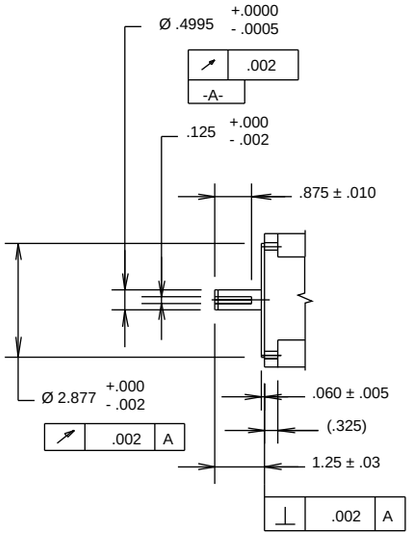
Note: L1 includes primary feedback device.
*Add 2.22 in/56.4 mm for brake option.

## MOUNTING AND SHAFT OPTIONS

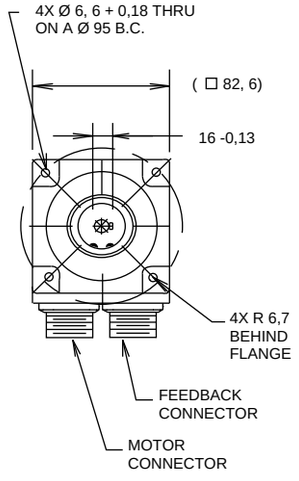
**FRONT VIEW**

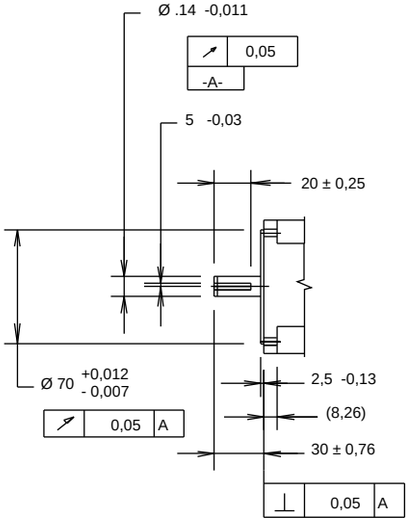



**ENGLISH (INCHES)**




**METRIC (MILLIMETERS)**



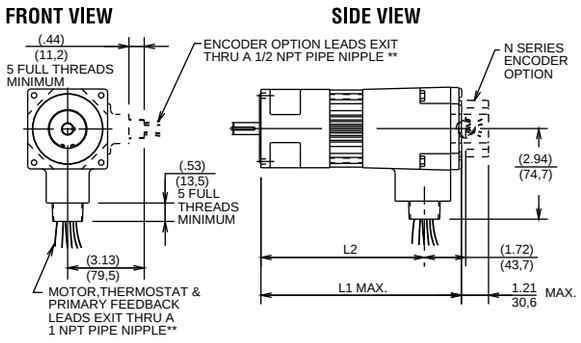

## CONNECTORS

| R30 SERIES CONNECTORS | |
|---|---|
| **MOTOR** | MS3102E20-4P |
| **PRIMARY FEEDBACK** | MS3102E20-7P |
| **PRIMARY PLUS BRAKE** | MS3102E14S-9P |



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## DIMENSIONS. . .R30P SERIES




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R32** | 8.45 | (6.81) |
| **R33** | 9.45 | (7.81) |
| **R34** | 10.45 | (8.81) |
| **R35** | 11.45 | (9.81) |

Note: L1 includes primary feedback device.

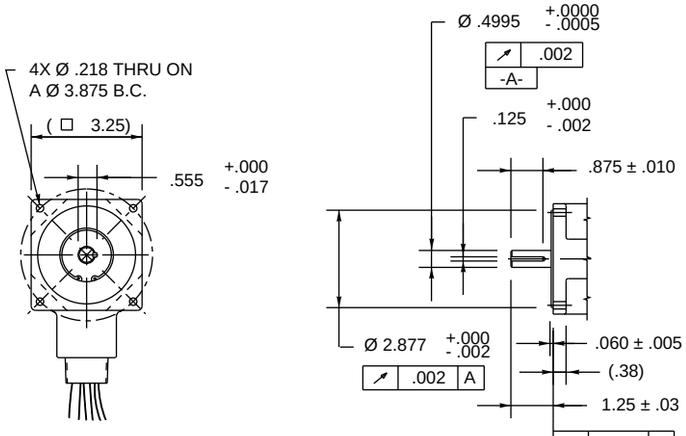
### METRIC (MILLIMETERS)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R32** | 214,4 | (173,5) |
| **R33** | 239,8 | (198,9) |
| **R34** | 265,7 | (224,3) |
| **R35** | 290,6 | (249,7) |

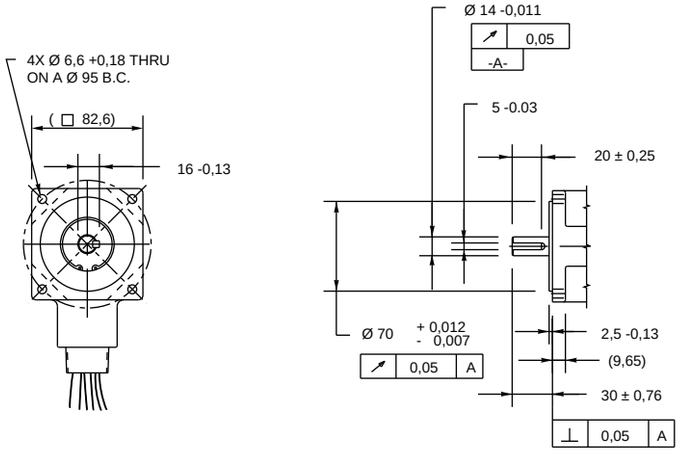
Note: L1 includes primary feedback device.
*Add 2.14 in/54,4 mm for brake option.
**Standard lead length is 36 in./914,4 mm.

## MOUNTING AND SHAFT OPTIONS

### ENGLISH (INCHES)




### METRIC (MILLIMETERS)

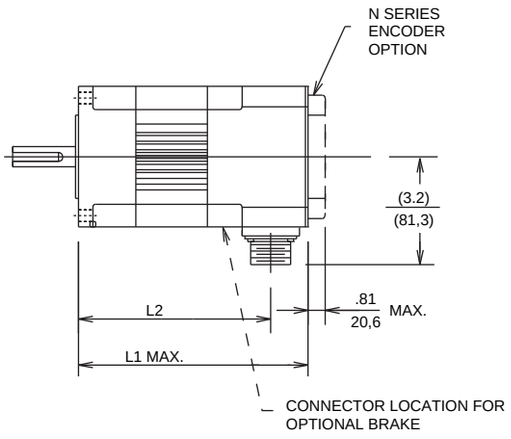





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## DIMENSIONS. . .R40 Series

### SIDE VIEW




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R43** | 8.4 | (7.01) |
| **R45** | 9.9 | (8.51) |
| **R46** | 11.4 | (10.01) |

Note: L1 includes primary feedback device.

### METRIC (MILLIMETERS)

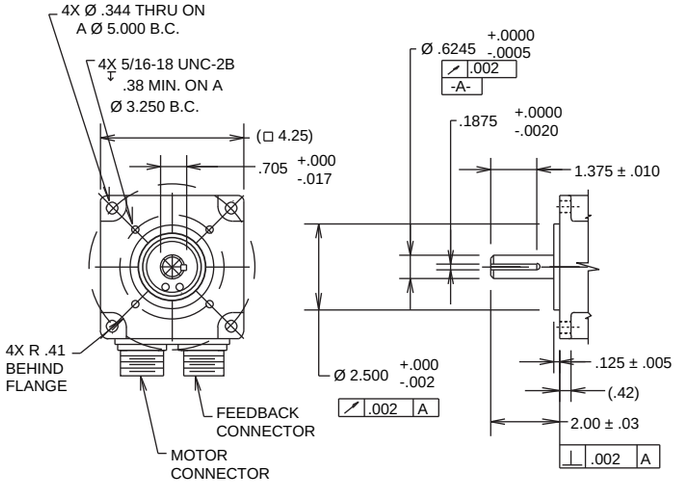
| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R43** | 213.4 | (178.1) |
| **R45** | 251.5 | (216.2) |
| **R46** | 289.6 | (254.3) |

Note: L1 includes primary feedback device.
*Add 2.44 in./62.0 mm for brake option.

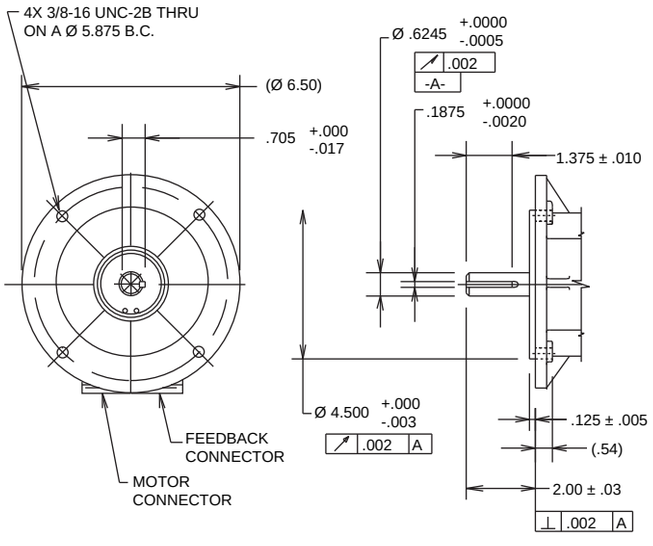
## MOUNTING AND SHAFT OPTIONS

### FRONT VIEW

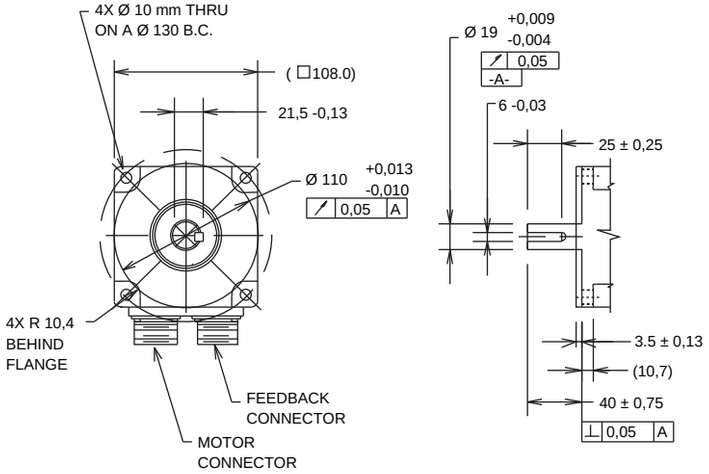
### ENGLISH (INCHES)




### NEMA 56C (INCHES)




### METRIC (MILLIMETERS)



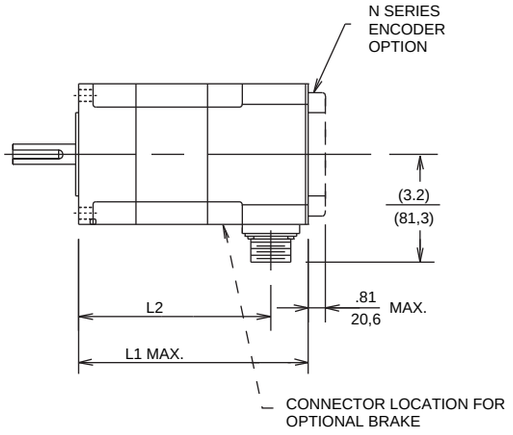

## CONNECTORS

| R40 SERIES CONNECTORS | |
|---|---|
| **MOTOR** | MS3102E20-4P |
| **PRIMARY FEEDBACK** | MS3102E20-7P |
| **PRIMARY PLUS SECONDARY FEEDBACK** | MS3102E20-29P |
| **BRAKE** | MS3102E14S-9P |



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### SIDE VIEW




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| F43 | 8.4 | (7.01) |
| F45 | 9.9 | (8.51) |
| F46 | 11.4 | (10.01) |

Note: L1 includes primary feedback device.

### METRIC (MILLIMETERS)

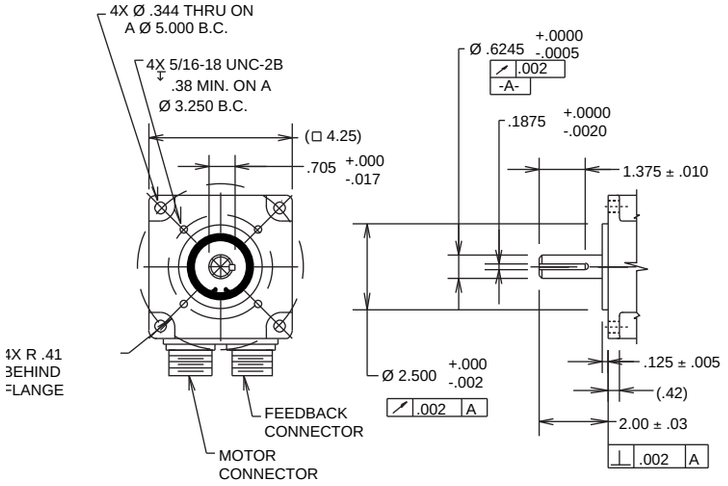
| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| F43 | 213.4 | (178.1) |
| F45 | 251.5 | (216.2) |
| F46 | 289.6 | (254.3 |

Note: L1 includes primary feedback device.
*Add 2.44 in./62.0 mm for brake option.

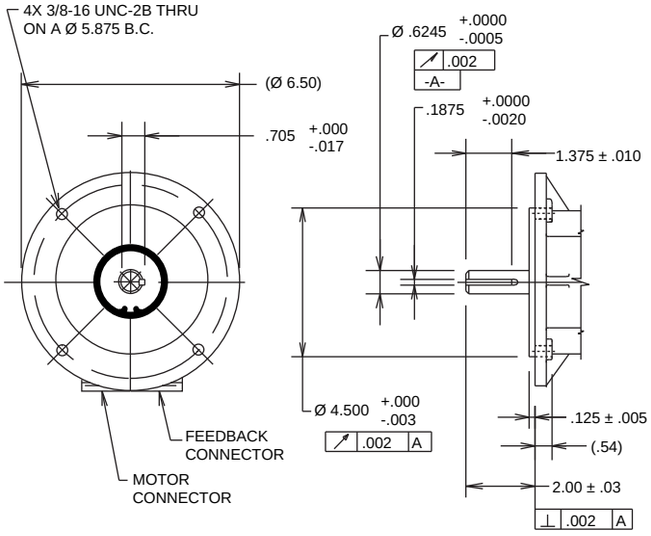
## MOUNTING AND SHAFT OPTIONS

### FRONT VIEW

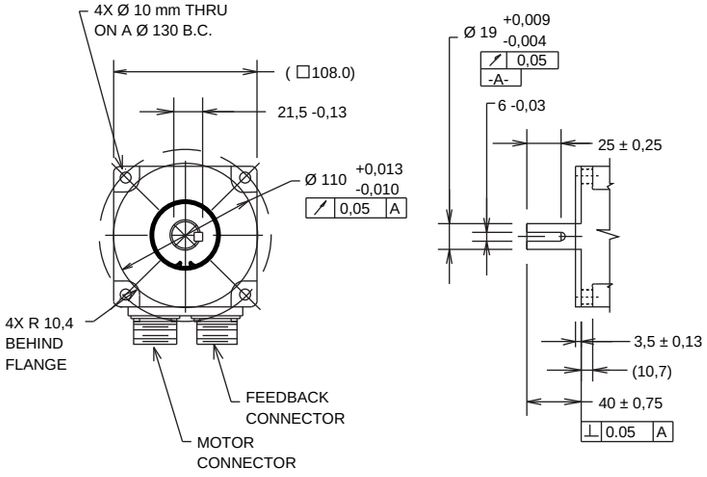
### ENGLISH (INCHES)




### NEMA 56C (INCHES)




### METRIC (MILLIMETERS)




## CONNECTORS

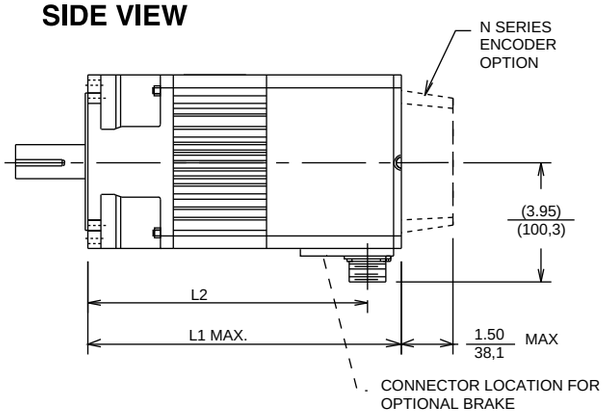
| F40 SERIES CONNECTORS | |
|---|---|
| MOTOR | MS3102E20-4P |
| PRIMARY FEEDBACK | MS3102E20-7P |
| PRIMARY PLUS SECONDARY FEEDBACK | MS3102E20-29P |
| BRAKE | MS3102E14S-9P |



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## DIMENSIONS. . .R60 SERIES

### SIDE VIEW




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R63** | 9.36 | (8.12) |
| **R65** | 11.36 | (10.12) |
| **R67** | 13.36 | (12.12) |

Note: L1 includes primary feedback device.

### METRIC (MILLIMETERS)

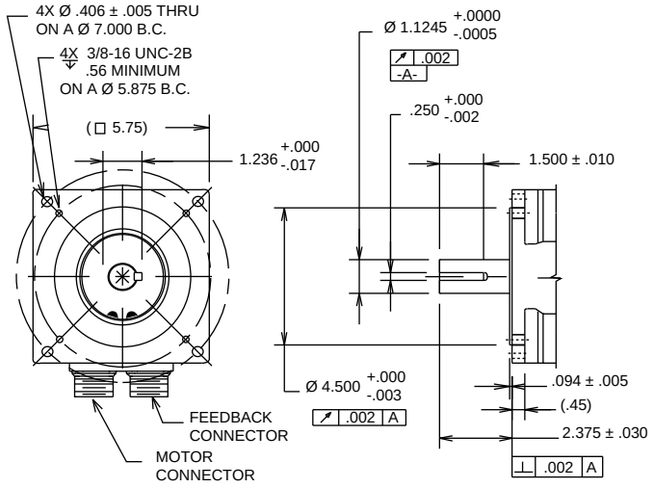
| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R63** | 237.7 | (206.2) |
| **R65** | 288.5 | (257.0) |
| **R67** | 339.3 | (307.8) |

Note: L1 includes primary feedback device.
*Add 2.66 in./67.6 mm for brake option.

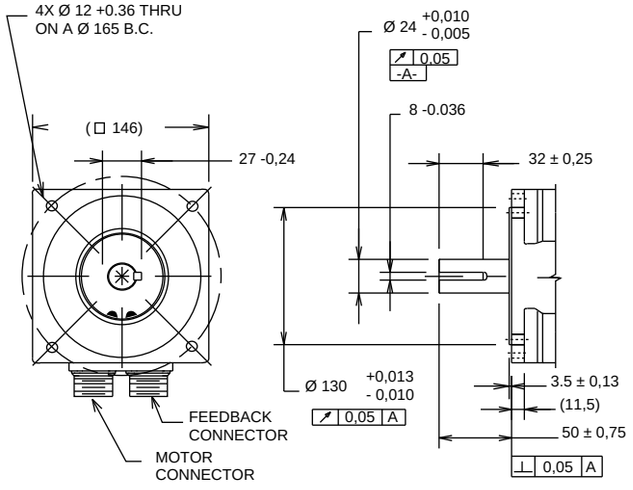
## MOUNTING AND SHAFT OPTIONS

### FRONT VIEW

### ENGLISH (INCHES)




### METRIC (MILLIMETERS)



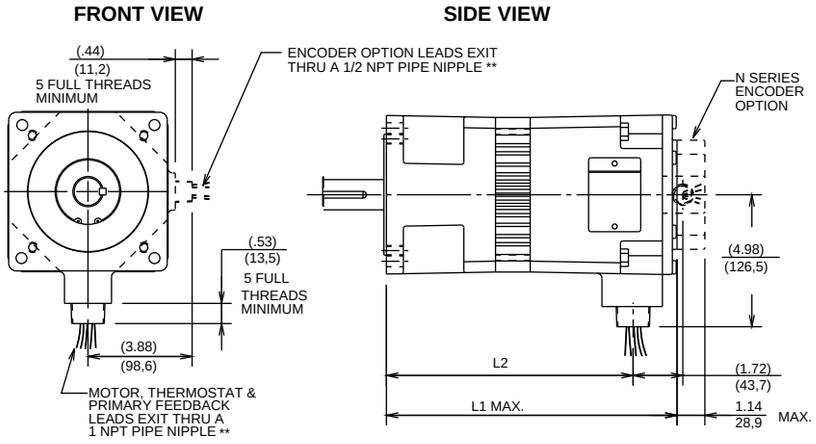

## CONNECTORS

| R60 SERIES CONNECTORS | |
|---|---|
| **MOTOR** | MS3102E20-4P |
| **PRIMARY FEEDBACK** | MS3102E20-7P |
| **PRIMARY PLUS SECONDARY FEEDBACK** | MS3102E20-29P |
| **BRAKE** | MS3102E14S-9P |



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## DIMENSIONS . . . R60P SERIES




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R63** | 10.03 | (8.33) |
| **R65** | 12.03 | (10.33) |
| **R67** | 14.03 | (12.33) |

Note: L1 includes primary feedback device.

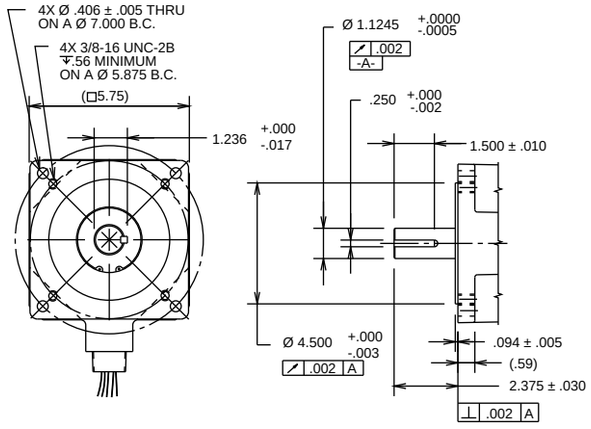
### METRIC (MILLIMETERS)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R63** | 254,8 | (211,6) |
| **R65** | 305,6 | (262,4) |
| **R67** | 356,4 | (313,2) |

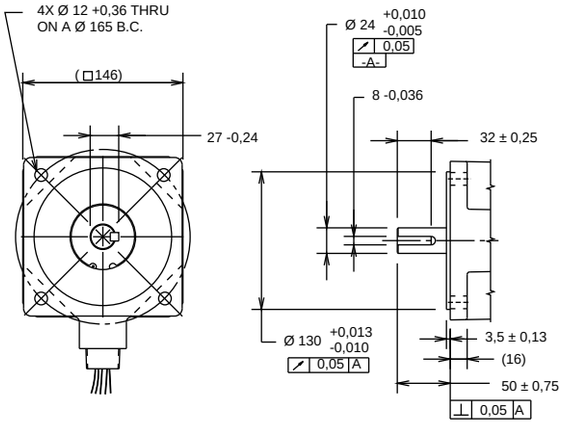
Note: L1 includes primary feedback device.
*Add 3.11 in./79,0 mm for brake option.
**Standard lead length is 36 in.914,4 mm.

## MOUNTING AND SHAFT OPTIONS

### ENGLISH (INCHES)




### METRIC (MILLIMETERS)

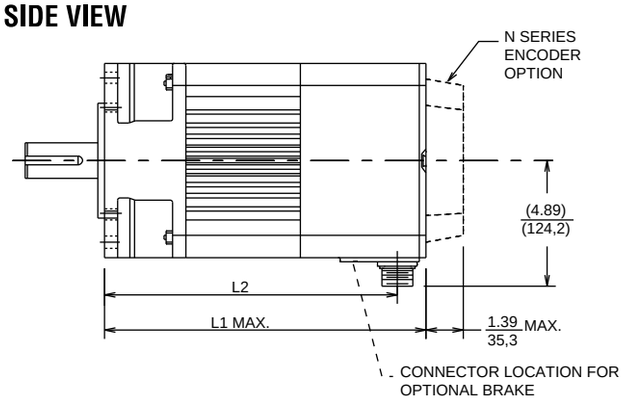





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## DIMENSIONS. . .R80 Series

### SIDE VIEW




### ENGLISH (INCHES)

| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R84** | 10.93 | (9.56) |
| **R86** | 12.93 | (11.56) |
| **R88** | 14.93 | (13.56) |
| **R8A** | 16.93 | (15.56) |

Note: L1 includes primary feedback device.

### METRIC (MILLIMETERS)

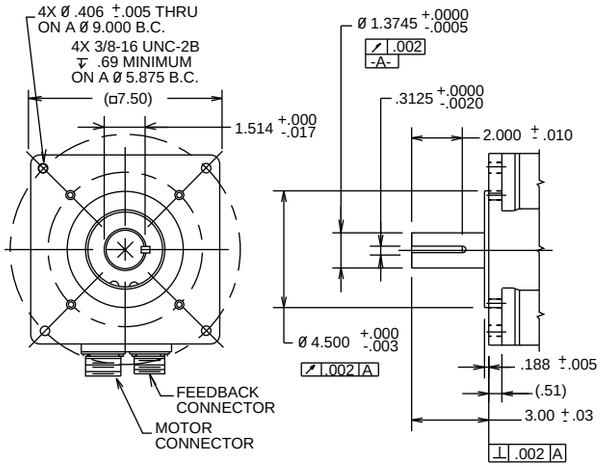
| MODEL NUMBER | L1 MAX.* | L2 REF.* |
|---|---|---|
| **R84** | 277.6 | (242.8) |
| **R86** | 328.4 | (293.6) |
| **R88** | 379.2 | (344.4) |
| **R8A** | 430.0 | (395.2) |

Note: L1 includes primary feedback device.
*Add 2.88 in/73.1 mm for brake option.

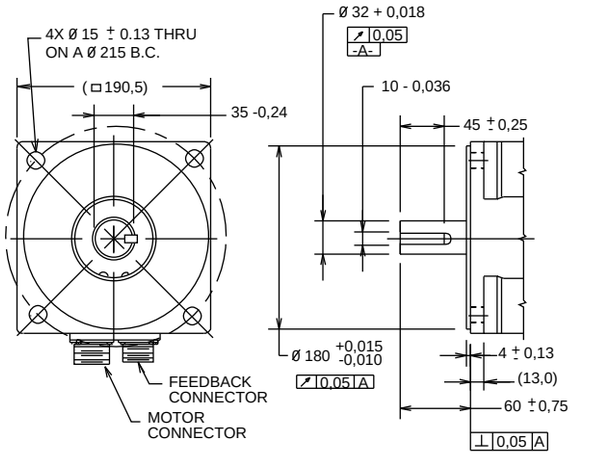
## MOUNTING AND SHAFT OPTIONS

### FRONT VIEW

### ENGLISH (INCHES)




### METRIC (MILLIMETERS)




## CONNECTORS

| R80 SERIES CONNECTORS | |
|---|---|
| **MOTOR** | MS3102E24-22P |
| **PRIMARY FEEDBACK** | MS3102E20-7P |
| **PRIMARY PLUS SECONDARY FEEDBACK** | MS3102E20-29P |
| **BRAKE** | MS3102E14S-9P |



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