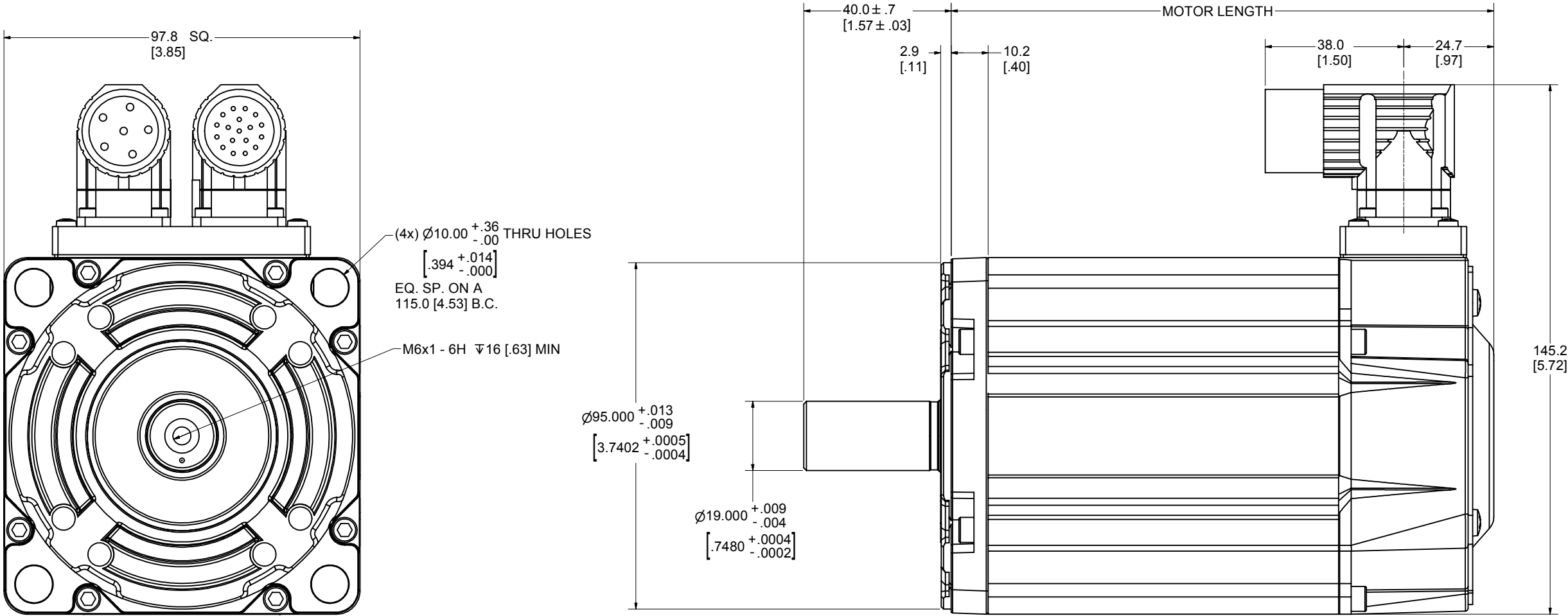


NOTES:

1. DIMENSIONS IN MM (IN).
2. MOTOR DIMENSIONS, TOLERANCES, MOUNTING AND MEASUREMENT TECHNIQUE COMPLIANT TO INTERNATIONAL STANDARD "IEC 72-1, SIXTH EDITION."

| REVISIONS |             |          |      |
|-----------|-------------|----------|------|
| REV       | DESCRIPTION | DATE     | NAME |
| A         | ER #2017    | 06/20/05 | JME  |
| B         | ECO-1269    | 04/18/07 | JME  |



| MOTOR LENGTH |         |            |            |
|--------------|---------|------------|------------|
| MODEL        |         | STANDARD   | BRAKE      |
| MPP1002      |         | 149 [5.87] | 198 [7.78] |
| MPP1003      | MPJ1002 | 174 [6.87] | 223 [8.78] |

KEY OPTION

|                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                         |           |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|
| NAME                                                                                                                                                                                                                                               | DATE      | UNLESS OTHERWISE SPECIFIED:                                                                                                                                                             | MATERIAL: | <b>PARKER HANNIFIN CORP.</b><br>EMN AUTOMATION DIVISION            |
| DRAWN JME                                                                                                                                                                                                                                          | 2/15/2005 | DIMENSIONS ARE IN INCHES                                                                                                                                                                | FINISH:   |                                                                    |
| CHECKED                                                                                                                                                                                                                                            |           | TOLERANCES:                                                                                                                                                                             | COMMENTS: |                                                                    |
| ENG APR                                                                                                                                                                                                                                            |           | FRACTIONAL $\pm 1/64$<br>ANGULAR $\pm 5^\circ$<br>ONE PLACE DECIMAL $\pm .02$<br>TWO PLACE DECIMAL $\pm .01$<br>THREE PLACE DECIMAL $\pm .005$<br>DO NOT SCALE DRAWING<br>SCALE: 1.50:1 |           |                                                                    |
| PROPRIETARY AND CONFIDENTIAL<br>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PARKER HANNIFIN CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PARKER HANNIFIN CORPORATION IS PROHIBITED. |           |                                                                                                                                                                                         |           | DRAWING, DIMENSIONAL<br>SIZE 100, MPP/MPJ<br>BRUSHLESS SERVO MOTOR |
| SHEET 1 OF 1                                                                                                                                                                                                                                       |           |                                                                                                                                                                                         |           | SHEET SIZE: PART NUMBER:<br>D 88-025446-01                         |