



Customer Document title:

## Motor Outline Drawing

Flowserve Document title: **Motor Typical Outline Drawing**

Flowserve Document No.: **1400944-002-5920-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP002A/D**

Pump Type/Size: **MARK 3 STANDARD / 2K4X3-100P**

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

PROJECT - WORPAR

ITEM NBR - PW502.1/1-PW502.1/2

PW502.2/1-PW502.2/2

TYPE - ASSY

eB NBR - 100212858.001

DATE - 09.02.2022

Customer Tag No: **DESMET TAG#: PW502.1/1, WORLD ENERGY TAG#: 19-P-754A, DESMET TAG#: PW502.1/2, WORLD ENERGY TAG #: 19-P-754B, DESMET TAG#: PW502.2/1, WORLD ENERGY TAG#: 19-P-854A, DESMET TAG#: PW502.2/2, WORLD ENERGY TAG#: 19-P-854B**

Customer PO No.: **28493**

End User: **DESMET BALLESTRA NORTH AMERICA**

### Please complete and return:

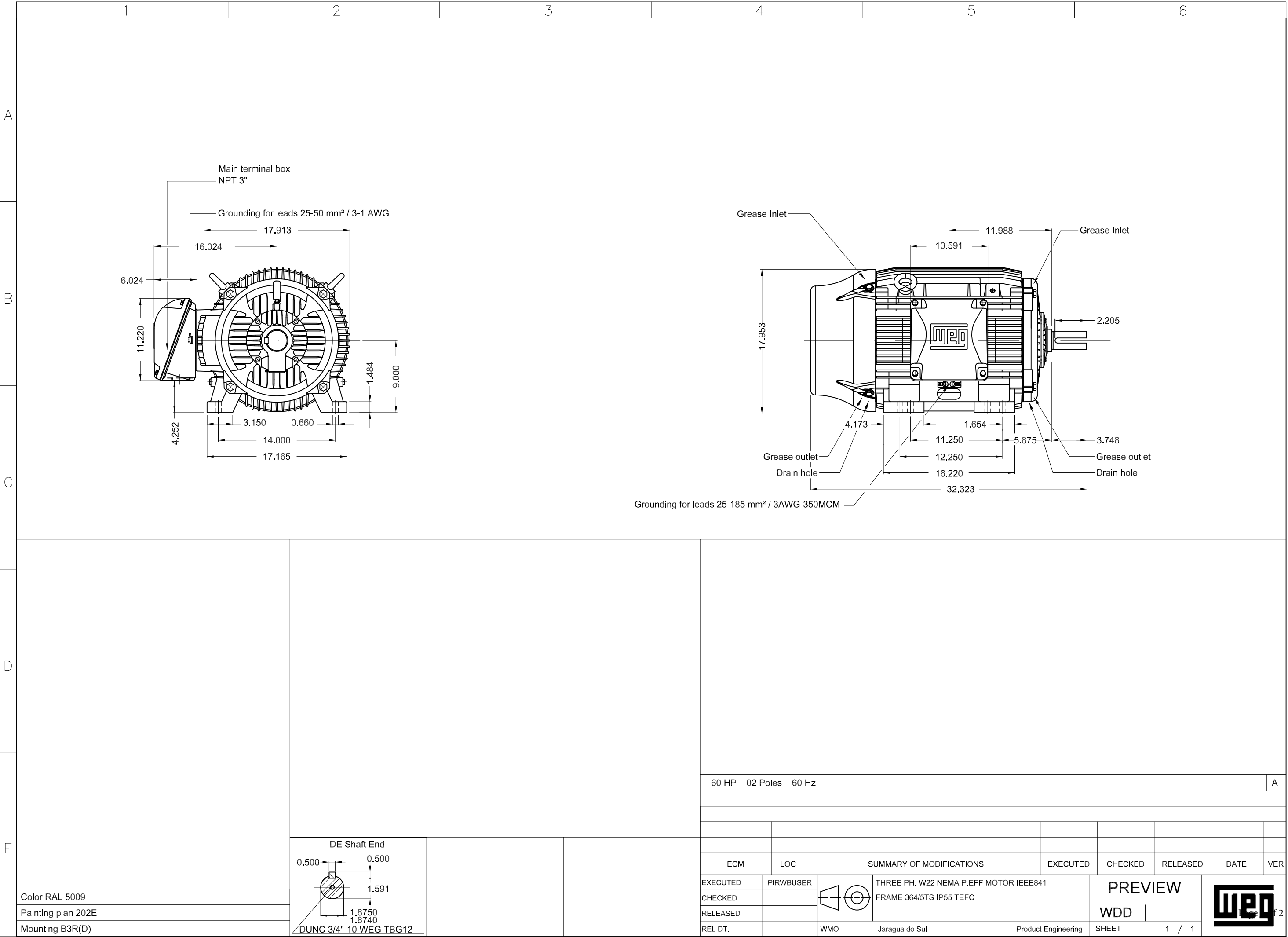
Document Reviewed by:

Document Reviewed date:

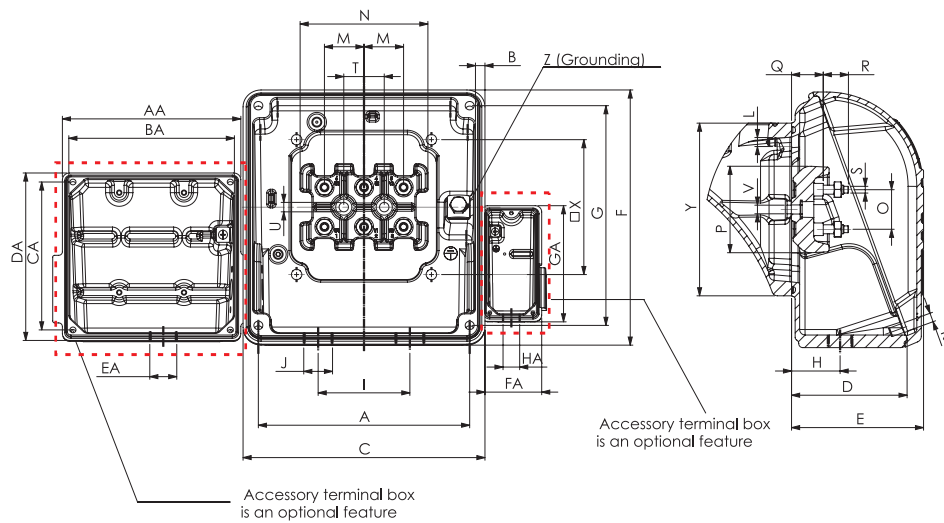
- ☐ **APPROVED. NO ACTION REQUIRED**
- ☐ **APPROVED. RE-SUBMIT AS FINAL**
- ☐ **APPROVED WITH COMMENTS.** DOCUMENT WILL BE MODIFIED AND RESUBMITTED AS FINAL.
- ☐ **REJECTED.** CORRECT AND RE-SUBMIT FOR APPROVAL.
- ☐ **FOR INFORMATION.** REVIEW NOT REQUIRED
- ☐ **AS-BUILT**

- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document submitted by Flowserve Corp. and returned.
- Corrections, alterations, additions and/or modifications outside scope of contract or made after first submittal may require an additional engineering service charge.
- Items conditionally approved or with deferred approval by purchaser must be specifically stated otherwise delivery may be affected.

| Rev | Revision Description | Released       | Release Date |
|-----|----------------------|----------------|--------------|
|     | For Review           | Morris, Tamika | 14-Dec-21    |



## 16. Terminal Box Drawing



| Frames  | A      | B     | C                | D                | E                | F                 | G                | H                | I                | J          | K          | L          | M                | N                | O                | P                | Q                | R                | S                    | T                | U                |
|---------|--------|-------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------|------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|
| 143/5T  | 3.858  |       | 4.528            | 2.283            | 2.638            | 4.094             | 3.583            | 1.220            | 1.654            | NPT 3/4"   | M5 x 0.8   | M5 x 0.8   | 0.630            | 2.087            | 0.630            | 1.378            | 0.610            | 0.472            | <del>M4 x 0.7</del>  | <del>0.787</del> | <del>0.228</del> |
| 182/4T  | 4.606  | 0.276 | 5.512            | 2.717            | 3.150            | 5.236             | 4.606            | 1.417            | 2.126            | NPT 1"     | M6 x 1.0   | M6 x 1.0   | 0.906            | 2.953            | 0.906            | 2.047            | 0.669            | 0.630            | M5 x 0.8             | 0.906            | 0.256            |
| 213/5T  |        |       |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  |                  |
| 254/6T  | 6.890  | 0.335 | <del>7.815</del> | <del>3.386</del> | <del>3.976</del> | <del>7.480</del>  | <del>6.890</del> | <del>1.811</del> | <del>3.307</del> | NPT 1 1/2" | M8 x 1.25  | M8 x 1.25  | 1.102            | 3.543            | 1.102            | 2.362            | 0.846            | <del>0.807</del> | <del>M6 x 1.0</del>  | 1.102            | 0.260            |
| 284/6T  |        |       |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  |                  |
| 324/6T  | 8.031  | 0.374 | 9.055            | 3.996            | 4.705            | <del>8.661</del>  | <del>8.031</del> | <del>2.205</del> | <del>3.701</del> | NPT 2"     |            |            | <del>1.378</del> | <del>4.409</del> | <del>1.378</del> | <del>2.913</del> | <del>0.945</del> | <del>0.945</del> | <del>M8 x 1.25</del> | <del>1.378</del> | <del>0.374</del> |
| 364/5T  | 9.252  | 0.492 | 10.591           | 5.000            | 6.024            | 11.267            | 10.236           | 2.677            | 4.331            | NPT 3"     | M10 x 1.5  | M10 x 1.5  | 1.732            | 5.512            | 1.732            | 3.701            | 1.280            | 1.102            | M10 x 1.5            |                  |                  |
| 404/5T  |        |       |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  |                  |
| 444/5T  | 10.827 | 0.531 | 12.362           | 5.118            | 5.970            | 12.283            | 10.827           |                  | 4.961            |            |            |            |                  |                  |                  |                  |                  |                  |                      | 1.772            |                  |
| 445/7T  |        |       |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  | 0.413            |
| 447/9T  | 13.386 |       | 14.921           | 6.142            | 6.929            | 15.039            | 13.583           | 3.228            | 6.299            | 2xNPT 3"   | M12 x 1.75 | M12 x 1.75 | 1.772            | <del>6.024</del> | 1.772            | 4.252            | 1.398            | 1.575            | M12 x 1.75           |                  |                  |
| 504/5T  |        | 0.571 |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  |                  |
| L447/9T | 14.370 |       | 15.906           | 7.697            | 8.661            | <del>17.165</del> | 15.354           | 3.819            | 7.874            |            |            | M14 x 2.0  | <del>2.559</del> | <del>8.268</del> | 2.559            | 5.748            | 2.008            | 1.772            | M16 x 2.0            | <del>2.559</del> |                  |
| 586/7T  |        |       |                  |                  |                  |                   |                  |                  |                  |            |            |            |                  |                  |                  |                  |                  |                  |                      |                  |                  |
| 588/9T  | 16.339 | -     | 18.110           | 9.843            | 11.417           | 21.417            | 18.898           | 5.000            | 6.299            | 2xNPT 4"   | M10 x 1.5  |            | 3.150            | -                | 4.134            | -                | -                | -                | M20 x 2.5            | -                | -                |

| Frames  | V         | X      | Y                | Z          | AA               | BA               | CA               | DA               | EA       | FA    | GA    | HA       | Max connector number |             |              | Volume (in³) |
|---------|-----------|--------|------------------|------------|------------------|------------------|------------------|------------------|----------|-------|-------|----------|----------------------|-------------|--------------|--------------|
|         |           |        |                  |            |                  |                  |                  |                  |          |       |       |          | Main                 | Accessories | Space heater |              |
| 143/5T  |           | 2.205  | 3.031            | 0.5-6 mm²  |                  |                  |                  |                  |          |       |       |          | 4                    |             |              | 25           |
| 182/4T  | M5 x 0.8  | 2.756  | 4.213            | 2-10 mm²   | 4.272            | 3.543            | 3.346            | 3.780            |          |       |       |          | 6                    | 16          |              | 50           |
| 213/5T  |           |        |                  |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| 254/6T  | M6 x 1.0  | 4.331  | <del>5.669</del> | 5.2-25 mm² | <del>5.453</del> | <del>4.606</del> | <del>4.606</del> | <del>5.118</del> |          |       | 4.016 |          | 12                   |             |              | 135          |
| 284/6T  |           |        | <del>5.512</del> |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| 324/6T  | M8 x 1.25 | 4.724  | 6.102            | 5.2-35 mm² |                  |                  |                  |                  |          |       |       |          |                      |             |              | 210          |
| 364/5T  |           |        |                  |            |                  |                  |                  |                  |          |       |       |          |                      |             |              | 460          |
| 404/5T  |           | 5.906  | 7.559            | 25-50 mm²  |                  |                  |                  |                  | NPT 3/4" | 2.657 |       | NPT 3/4" |                      | 26          | 4            | 592          |
| 444/5T  |           |        |                  |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| 445/7T  | M10 x 1.5 |        |                  | 35-70 mm²  | 7.795            | 6.890            | 6.890            | 7.382            |          |       | 5.236 |          | 16                   |             |              | 1100         |
| 447/9T  |           | 7.874  | 10.236           |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| 504/5T  |           |        |                  |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| L447/9T |           | 10.236 | 12.008           | 85-120 mm² |                  |                  |                  |                  |          |       |       |          |                      |             |              | 1696         |
| 586/7T  |           |        |                  |            |                  |                  |                  |                  |          |       |       |          |                      |             |              |              |
| 588/9T  | -         | 11.417 |                  | 50-70 mm²  |                  |                  |                  |                  |          |       |       |          | -                    |             |              | 3300         |

Note: terminal block is optional on NEMA motors.