

# TC Series Pump | Submittal Data

Submittal No: 301-1812 | Model: 050314 | RPM: 1450 - 50 Hz NEMA | Effective: 08/01/24 | Supersedes: 06/30/19

JOB: \_\_\_\_\_

REPRESENTATIVE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

## PRODUCT DATA

ITEM NO. \_\_\_\_\_ MODEL NO. 050314

IMPELLER DIAMETER \_\_\_\_\_ HORSEPOWER \_\_\_\_\_

GPM \_\_\_\_\_ VOLTAGE \_\_\_\_\_

HEAD/FT \_\_\_\_\_ RPM 1450

WEIGHT \_\_\_\_\_ PUMP/MOTOR \_\_\_\_\_

## DIMENSIONS

Model No. | 050314 - Flange Size (Suction x Discharge) | 5 x 3 (127 x 76)

| MOTOR & FRAME DIMENSIONS               |                       |                      |      |              |      |
|----------------------------------------|-----------------------|----------------------|------|--------------|------|
| HP                                     |                       | 15                   | 20   | 25           | 30   |
| MOTOR<br>FRAME<br>ODP                  | 380/<br>415<br>VOLT * | 254T                 | 256T | 284T         | 286T |
|                                        | 3300<br>VOLT          | N/A                  |      |              |      |
| MOTOR<br>FRAME<br>TEFC                 | 380/<br>415<br>VOLT * | 254T                 | 256T | 284T         | 286T |
|                                        | 3300<br>VOLT          | N/A                  |      |              |      |
| MAX.<br>ASSEMBLY<br>WEIGHT<br>LBS (KG) |                       | 1319 (599)           |      | 1523 (691)   |      |
| A*                                     |                       | 24.69 (627)          |      | 27.68 (703)  |      |
| J                                      |                       | 4 X 0.79<br>(4 X 20) |      |              |      |
| K                                      |                       | 4.92 (125)           |      |              |      |
| L1                                     |                       | 48.03 (1220)         |      | 50.39 (1280) |      |
| L2                                     |                       | 32.28 (820)          |      | 34.65 (880)  |      |
| L3                                     |                       | N/A                  |      |              |      |
| L4                                     |                       | N/A                  |      |              |      |
| M                                      |                       | 21.69 (551)          |      |              |      |
| N                                      |                       | 23.23 (590)          |      |              |      |
| P                                      |                       | 27.56 (700)          |      |              |      |

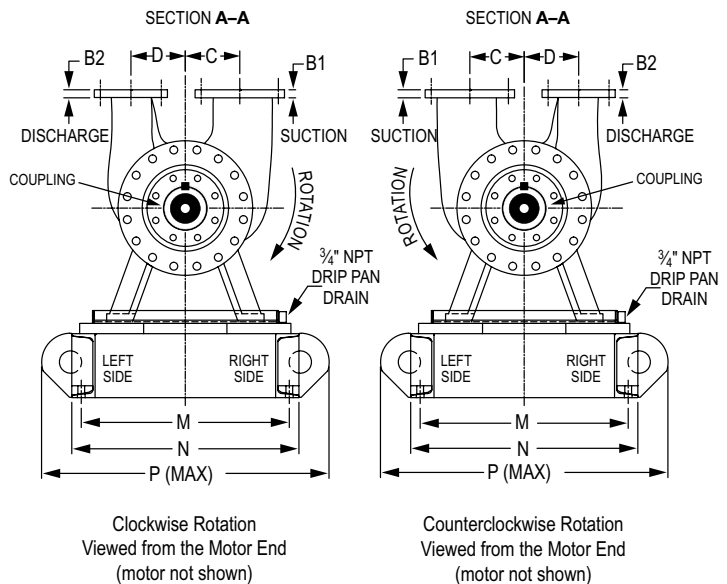
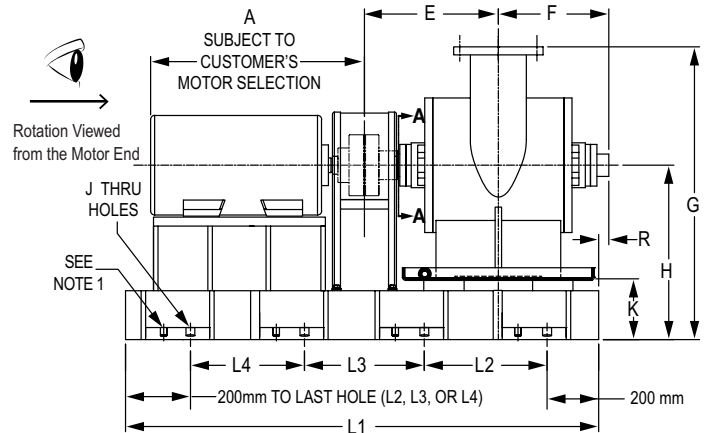
| PUMP DIMENSIONS |                           |    |    |    |  |
|-----------------|---------------------------|----|----|----|--|
| HP              | 15                        | 20 | 25 | 30 |  |
| B1 Suction      | ANSI Class 125: 0.94 (24) |    |    |    |  |
|                 | ANSI Class 250: 1.38 (35) |    |    |    |  |
| B2 Discharge    | ANSI Class 125: 0.75 (19) |    |    |    |  |
|                 | ANSI Class 250: 1.10 (28) |    |    |    |  |
| C               | 6.30 (160)                |    |    |    |  |
| D               | 6.30 (160)                |    |    |    |  |
| E               | 16.46 (418)               |    |    |    |  |
| F               | 13.39 (340)               |    |    |    |  |
| G               | 30.31 (770)               |    |    |    |  |
| H               | 17.32 (440)               |    |    |    |  |
| R               | 2.44 (162)                |    |    |    |  |

## OPERATING SPECIFICATIONS

|          | FLANGE         | PRESSURE              | TEMPERATURE   |
|----------|----------------|-----------------------|---------------|
| STANDARD | ANSI Class 125 | 175 PSIG* (1210 KPA)  | 250°F (120°C) |
| OPTIONAL | ANSI Class 250 | 300 PSIG** (2070 KPA) | 250°F (120°C) |

\* In accordance with ANSI Standard B16.1 Class 125

\*\* In accordance with ANSI Standard B16.1 Class 250 Dim.



For all customer supplied motors above 449 NEMA frame, a certified motor drawing must be supplied by the customer at time of order entry.

Submittal dimensions for motor frames above 449 NEMA are specific to Baldor Electric Motors only.

English dimensions are in inches. Metric dimensions are in millimeters. Metric data is presented in ( ).

Dimensions are subject to change without notice. Do not use for construction purposes unless certified.

\* Standard voltage is 380/415V, 50 Hz, 3 Phase.

NOTE 1: Smaller holes are for alignment. Dimensions not supplied.

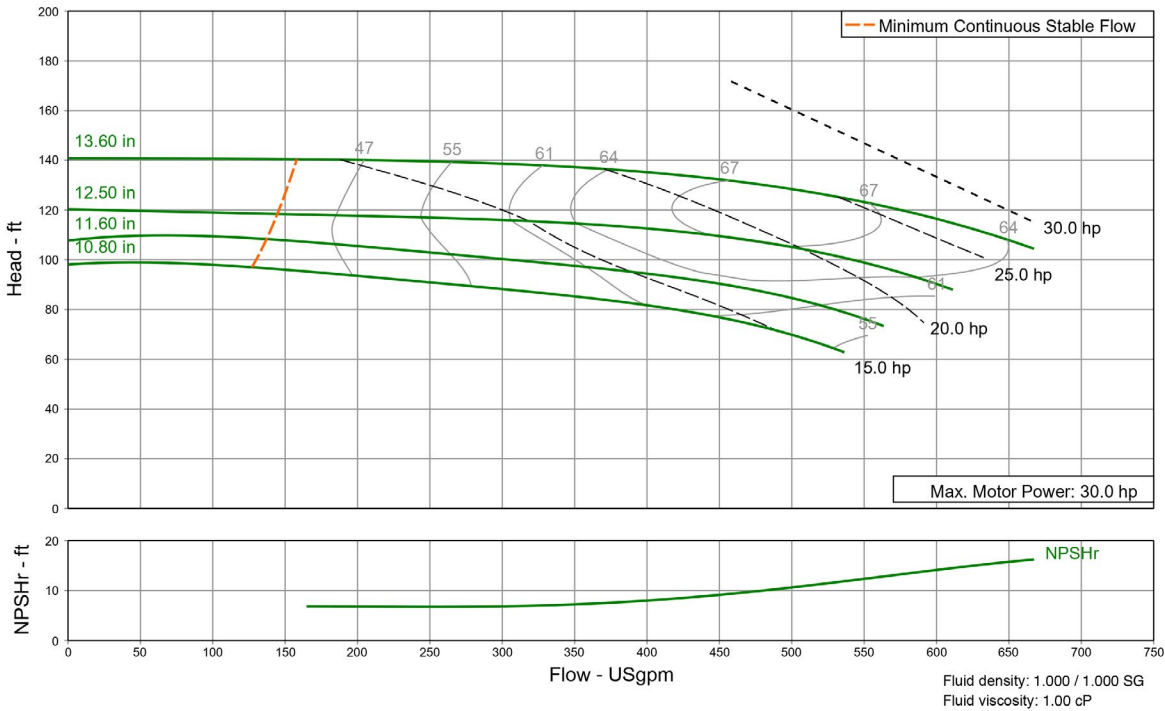
\*\* Motor dimensions are approximate and vary by manufacturer and motor type.

| MATERIALS OF CONSTRUCTION | CASING                       | IMPELLER                 | WEAR RING                | SHAFT                    | SHAFT SLEEVE             | MECHANICAL SEAL              | SEAL FLUSH LINE |
|---------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|-----------------|
| STANDARD                  | Cast Iron ASTM A48 Class 30A | Stainless Steel AISI 304 | Stainless Steel AISI 420 | Carbon Steel AISI 1045   | Stainless Steel AISI 420 | Carbon/Silicon Carbide Viton | N/A             |
| OPTIONAL                  | N/A                          | N/A                      | N/A                      | Stainless Steel AISI 420 | N/A                      | N/A                          | Copper          |

N/A - Not Available



|              |                |                      |
|--------------|----------------|----------------------|
| Model 050314 | 1450 RPM       | Curve no. 2508       |
| TC/TS Series | August 1, 2024 | Min. Imp. Dia. 10.8" |
|              |                | Size 5 X 3 X 14      |



COMMENTS