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# Customer information packet

## CFSWDM3615T-E

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3646M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | TEFC                                                          |
| Frame                          | 184TC                                                         |
| Frame Material                 | Stainless Steel                                               |
| Frequency                      | 60.00 Hz                                                      |
| Haz Area Class and Group       | None                                                          |
| Haz Area Division              | Not Applicable                                                |
| Motor Letter Type              | Three Phase                                                   |
| Output @ Frequency             | 5.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| Agency Approvals               | CSA<br>NEMA PREMIUM<br>UR                                     |
| Ambient Temperature            | 40 °C                                                         |
| Auxillary Box                  | No Auxillary Box                                              |
| Auxillary Box Lead Termination | None                                                          |
| Base Indicator                 | Rigid                                                         |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                       |
| Blower                         | None                                                          |
| Current @ Voltage              | 13.800 A @ 208.0 V<br>6.500 A @ 460.0 V<br>13.000 A @ 230.0 V |
| Design Code                    | B                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 89.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Face Code                | Standard                                                      |
| Front Shaft Indicator          | None                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  | 36R552     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS953   |
| Layout       | 36LYR552   |
| Eff. date    | 06-19-2023 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 08-02-2017 |

|                               |                        |
|-------------------------------|------------------------|
| Heater Indicator              | No Heater              |
| High Voltage Full Load Amps   | 6.5 a                  |
| Insulation Class              | H                      |
| Inverter Code                 | Inverter Ready         |
| KVA Code                      | J                      |
| Lifting Lugs                  | Standard Lifting Lugs  |
| Locked Bearing Indicator      | Locked Bearing         |
| Motor Lead Exit               | Ko Box                 |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG             |
| Motor Lead Termination        | Flying Leads           |
| Motor Standards               | NEMA                   |
| Motor Type                    | 3646M                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 4                      |
| Overall Length                | 18.89 IN               |
| Power Factor                  | 81                     |
| Product Family                | WD All SS Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing         |
| Pulley Face Code              | C-Face                 |
| Pulley Shaft Indicator        | Standard               |
| Rodent Screen                 | None                   |
| RoHS Status                   | ROHS COMPLIANT         |
| Service Factor                | 1.15                   |
| Shaft Diameter                | 1.125 IN               |
| Shaft Extension Location      | Pulley End             |
| Shaft Ground Indicator        | No Shaft Grounding     |
| Shaft Rotation                | Reversible             |
| Shaft Slinger Indicator       | Shaft Slinger          |
| Speed                         | 1750 rpm               |
| Speed Code                    | Single Speed           |
| Starting Method               | Direct on line         |
| Thermal Device - Bearing      | None                   |
| Thermal Device - Winding      | None                   |
| Vibration Sensor Indicator    | No Vibration Sensor    |

**Winding Thermal 1**

None

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**Winding Thermal 2**

None

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**AC Induction Motor Performance Data**

Record # 57384

Typical performance - not guaranteed values

| <b>Winding: 36WGS953-R006</b> |                          | <b>Type: 3646M</b> |                                                  | <b>Enclosure: TEFC</b>   |  |
|-------------------------------|--------------------------|--------------------|--------------------------------------------------|--------------------------|--|
| <b>Nameplate Data</b>         |                          |                    | <b>460 V, 60 Hz:<br/>High Voltage Connection</b> |                          |  |
| <b>Rated Output (HP)</b>      | 5                        |                    | <b>Full Load Torque</b>                          | 15.03 LB-FT              |  |
| <b>Volts</b>                  | 230/460                  |                    | <b>Start Configuration</b>                       | direct on line           |  |
| <b>Full Load Amps</b>         | 13/6.5                   |                    | <b>Breakdown Torque</b>                          | 57.4 LB-FT               |  |
| <b>R.P.M.</b>                 | 1750                     |                    | <b>Pull-up Torque</b>                            | 28.9 LB-FT               |  |
| <b>Hz</b>                     | <b>60 Phase</b>          | 3                  | <b>Locked-rotor Torque</b>                       | 32.3 LB-FT               |  |
| <b>NEMA Design Code</b>       | <b>B KVA Code</b>        | J                  | <b>Starting Current</b>                          | 47.9 A                   |  |
| <b>Service Factor (S.F.)</b>  | 1.15                     |                    | <b>No-load Current</b>                           | 2.91 A                   |  |
| <b>NEMA Nom. Eff.</b>         | <b>89.5 Power Factor</b> | 81                 | <b>Line-line Res. @ 25°C</b>                     | 2.34 Ω                   |  |
| <b>Rating - Duty</b>          | 40C AMB-CONT             |                    | <b>Temp. Rise @ Rated Load</b>                   | 75°C                     |  |
| <b>S.F. Amps</b>              |                          |                    | <b>Temp. Rise @ S.F. Load</b>                    | 91°C                     |  |
|                               |                          |                    | <b>Locked-rotor Power Factor</b>                 | 39                       |  |
|                               |                          |                    | <b>Rotor inertia</b>                             | 0.428 lb-ft <sup>2</sup> |  |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>S.F.</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| <b>Power Factor</b>    | 42        | 64        | 75        | 90         | 83         | 84         | 86          |
| <b>Efficiency</b>      | 86.7      | 90.5      | 90.8      | 89.3       | 88.4       | 86.6       | 88.8        |
| <b>Speed</b>           | 1788      | 1776      | 1763      | 1748       | 1732       | 1714       | 1738        |
| <b>Line amperes</b>    | 3.27      | 4.1       | 5.2       | 6.53       | 8.02       | 9.69       | 7.42        |

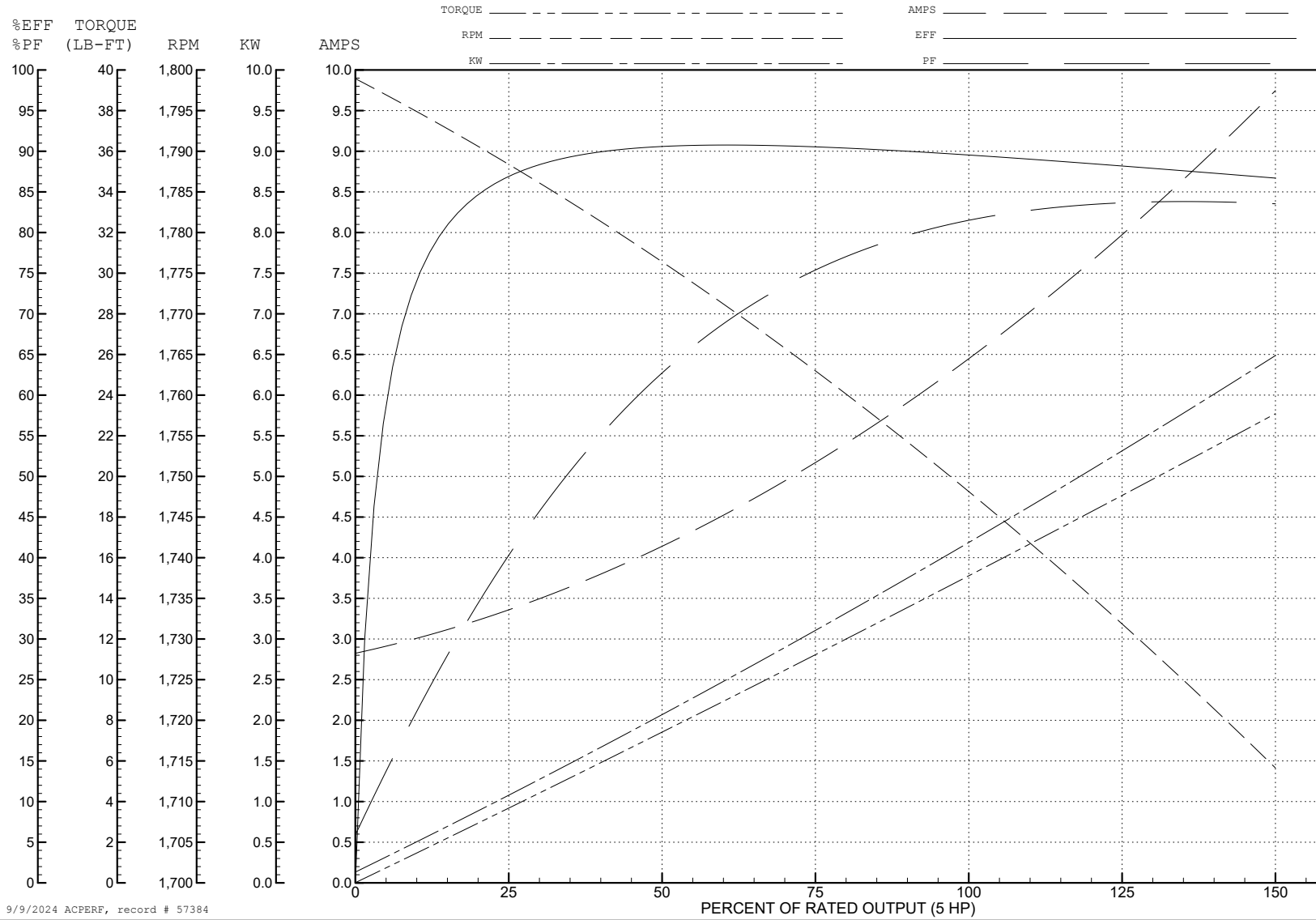
ABB Motors and Mechanical Inc.

WINDING # 36WGS953

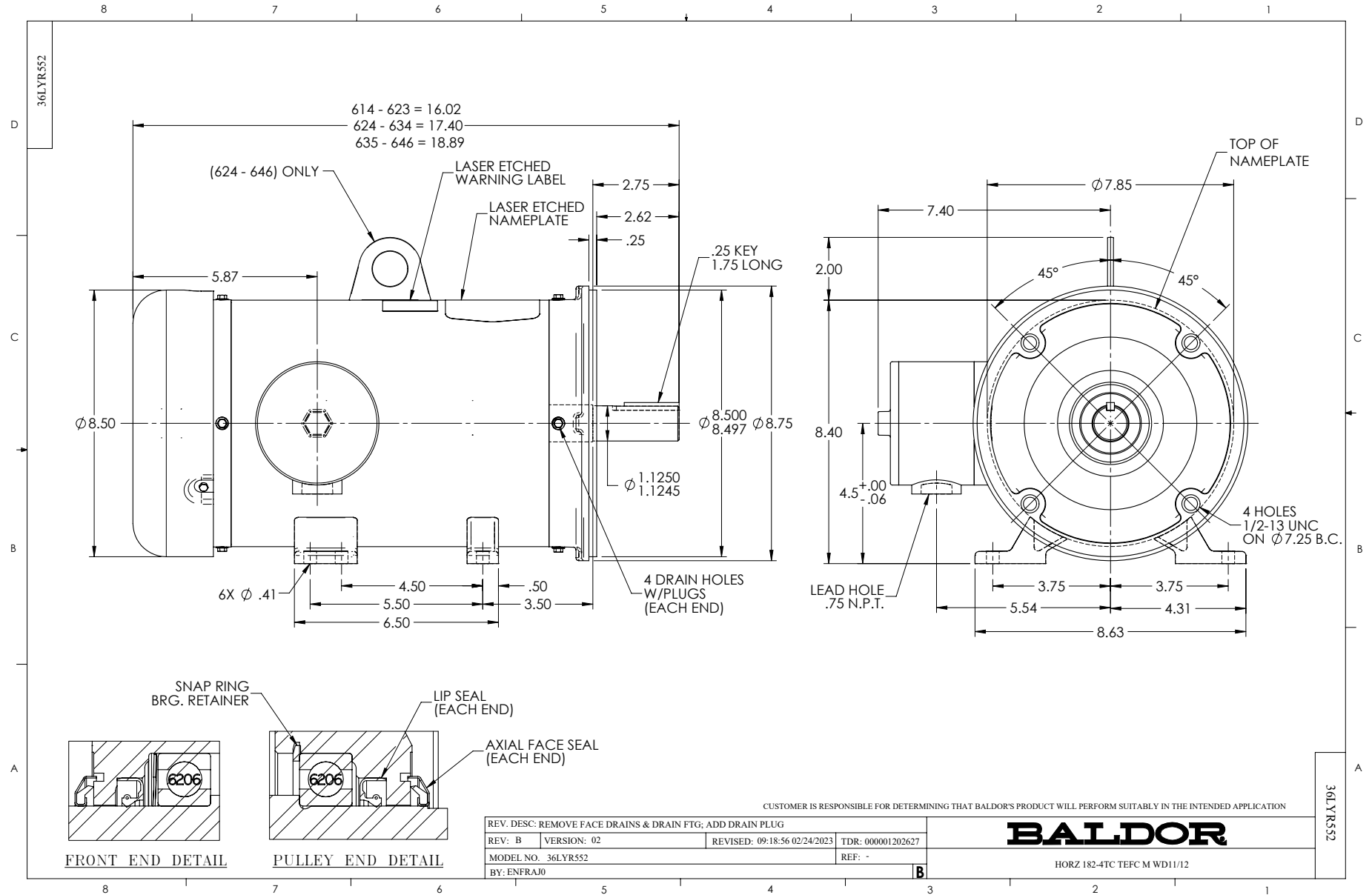
5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=57.4 PU=28.9 LR=32.3 LRA=47.9

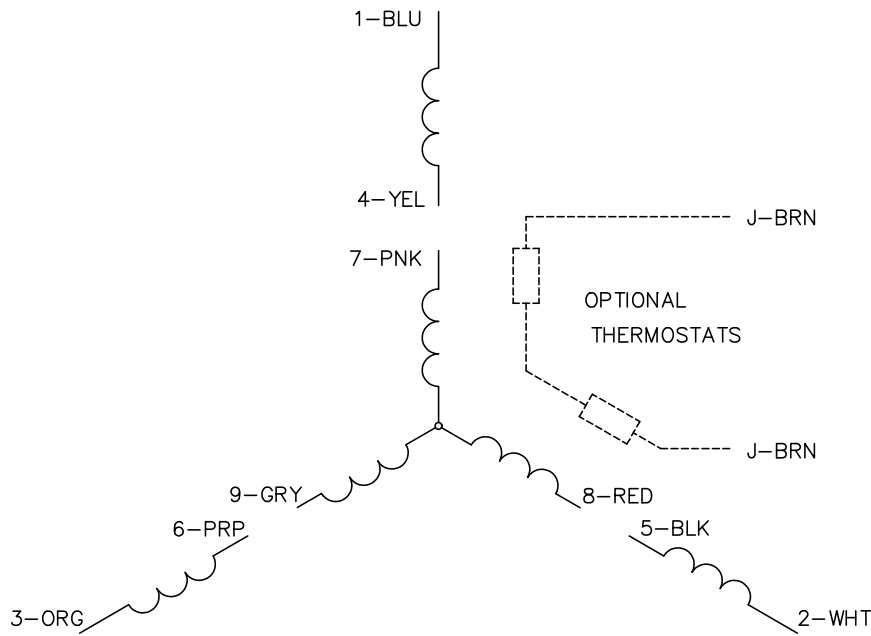


9/9/2024 ACPERF, record # 57384

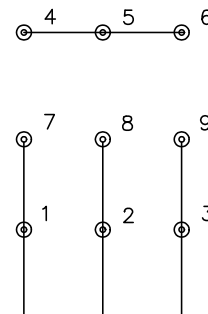




CD0005

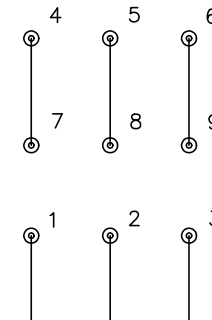


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**NOTES:**

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005