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# Customer information packet

## VESSWDM3714T-5

10HP, 1770RPM, 3PH, 60HZ, 215TC, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 215TC                     |
| 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             | 10.000 HP @ 60 HZ         |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | CSA<br>NEMA PREMIUM<br>UR |
| Ambient Temperature            | 40 °C                     |
| Auxiliary Box                  | NO AUXILLARY BOX          |
| Auxiliary Box Lead Termination | None                      |
| Base Indicator                 | No Mounting               |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | 10.100 A @ 575.0 V        |
| Design Code                    | B                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 92.4 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 10.1 a                    |
| Insulation Class               | F                         |
| Inverter Code                  | Inverter Ready            |
| IP Rating                      | IP56                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | G          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGS314   |
| Layout       | 37LYL779   |
| Eff. date    | 10-06-2020 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#14       |
| Proprietary  | False      |
| Created date | 02-11-2019 |

|                            |                               |
|----------------------------|-------------------------------|
| KVA Code                   | K                             |
| Lifting Lugs               | Standard Lifting Lugs         |
| Locked Bearing Indicator   | Locked Bearing                |
| Motor Lead Termination     | Flying Leads                  |
| Motor Standards            | NEMA                          |
| Mounting Arrangement       | F1                            |
| Number of Poles            | 4                             |
| Overall Length             | 21.66 IN                      |
| Power Factor               | 81                            |
| Product Family             | Wash Down All Stainless Steel |
| Pulley End Bearing Type    | Sealed Bearing                |
| Pulley Face Code           | C-Face                        |
| Rodent Screen              | None                          |
| Service Factor             | 1.15                          |
| Shaft Diameter             | 1.375 IN                      |
| Shaft Ground Indicator     | No Shaft Grounding            |
| Shaft Rotation             | Reversible                    |
| Speed                      | 1770 rpm                      |
| Speed Code                 | Single Speed                  |
| Starting Method            | Direct on line                |
| Thermal Device - Winding   | None                          |
| Vibration Sensor Indicator | No Vibration Sensor           |
| Winding Thermal 1          | None                          |
| Winding Thermal 2          | None                          |

## Nameplate

| NP1953C05    |                |    |      |                |   |      |  |    |       |     |   |  |
|--------------|----------------|----|------|----------------|---|------|--|----|-------|-----|---|--|
| CAT.NO.      | VESSWDM3714T-5 |    |      |                |   |      |  |    |       |     |   |  |
| SPEC.        | 37-0000-0007   |    |      |                |   |      |  |    |       |     |   |  |
| HP           | 10             |    |      |                |   |      |  |    |       |     |   |  |
| VOLTS        | 575            |    |      |                |   |      |  |    |       |     |   |  |
| AMP          | 10.1           |    |      |                |   |      |  |    |       |     |   |  |
| RPM          | 1770           |    |      |                |   |      |  |    |       |     |   |  |
| FRAME        | 215TC          |    |      | HZ             |   | 60   |  | PH |       | 3   |   |  |
| SER.F.       | 1.15           |    | CODE |                | K | DES  |  | B  | CLASS |     | F |  |
| NEMA-NOM-EFF | 92.4           |    |      | PF             |   | 81   |  |    |       |     |   |  |
| RATING       | 40C AMB-CONT   |    |      |                |   |      |  |    |       |     |   |  |
| CC           | 010A           |    |      | USABLE AT 208V |   |      |  |    |       | N/A |   |  |
| DE           | 6307           |    |      | ODE            |   | 6206 |  |    |       |     |   |  |
| ENCL         | TEFC           | SN |      |                |   |      |  |    |       |     |   |  |
|              | 4:1CT 20:1VT   |    |      |                |   |      |  |    |       |     |   |  |

**AC Induction Motor Performance Data**

Record # 44679

Typical performance - not guaranteed values

| Winding: 09WGZ910-R030 |    |              |              | Type: 0944M                              |                       | Enclosure: TEFC |         |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|---------|
| Nameplate Data         |    |              |              | 400 V, 50 Hz:<br>High Voltage Connection |                       |                 |         |
| Rated Output (KW)      |    | 11           |              | Full Load Torque                         |                       | 53.7 LB-FT      |         |
| Volts                  |    | 200/400      |              | Start Configuration                      |                       | direct on line  |         |
| Full Load Amps         |    | 42/21        |              | Breakdown Torque                         |                       | 163 LB-FT       |         |
| R.P.M.                 |    | 1460         |              | Pull-up Torque                           |                       | 80.2 LB-FT      |         |
| Hz                     | 50 | Phase        | 3            | Locked-rotor Torque                      |                       | 100 LB-FT       |         |
| NEMA Design Code       |    | N            | KVA Code     | G                                        | Starting Current      |                 | 131 A   |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                       | 8.35 A          |         |
| NEMA Nom. Eff.         |    | 91.4         | Power Factor | 83                                       | Line-line Res. @ 25°C |                 | 0.559 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 69°C            |         |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 36.7            |         |
|                        |    |              |              | Rotor inertia                            |                       | 1.92 LB-FT2     |         |

**Load Characteristics 400 V, 50 Hz, 11 KW**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 47   | 71   | 79   | 84   | 85   | 86   |
| Efficiency      | 88.2 | 92.2 | 92   | 91.4 | 90.2 | 88.7 |
| Speed           | 1491 | 1482 | 1473 | 1463 | 1452 | 1439 |
| Line amperes    | 9.59 | 12.4 | 16.6 | 21   | 26.3 | 31.7 |

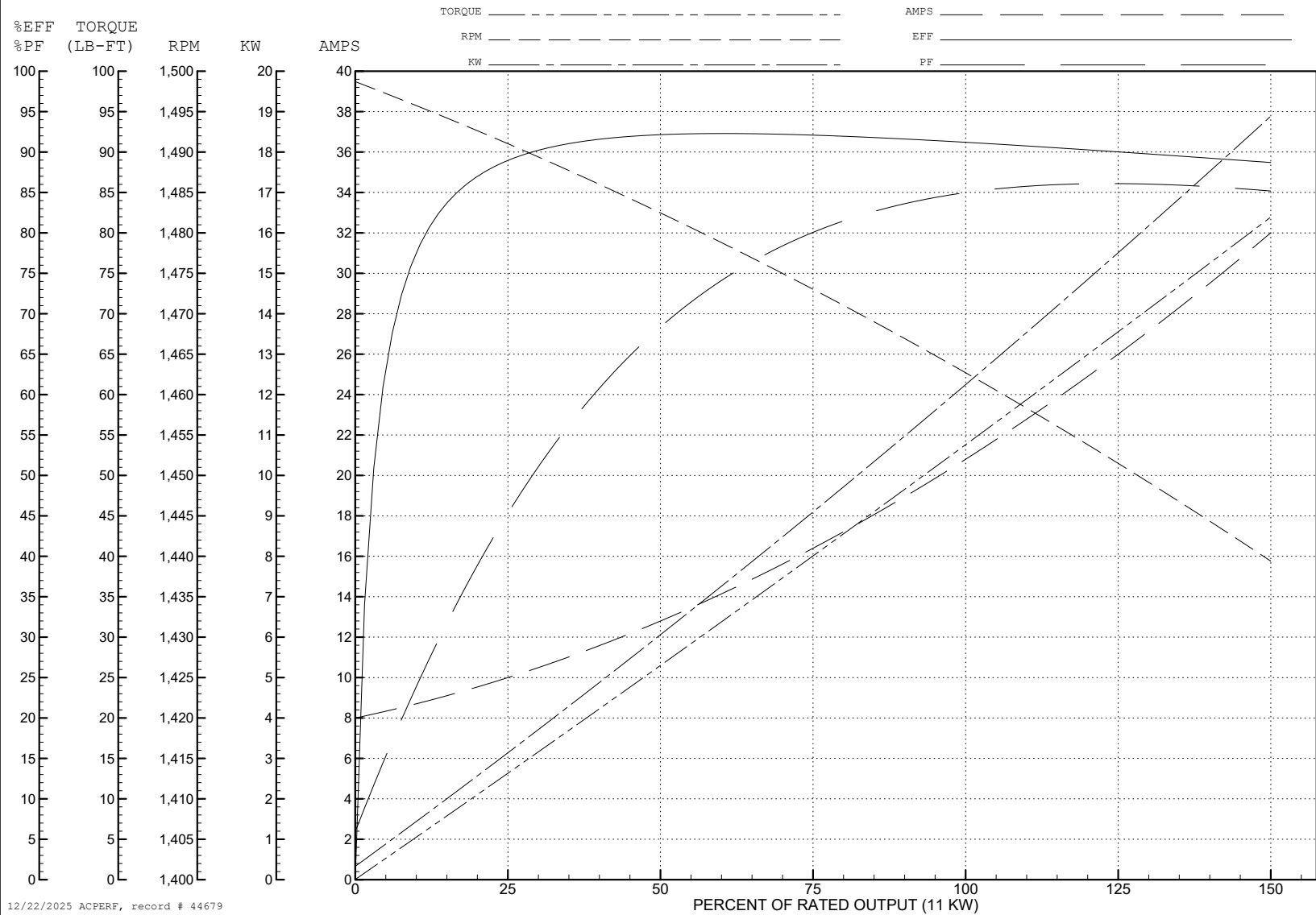
ABB Motors and Mechanical Inc.

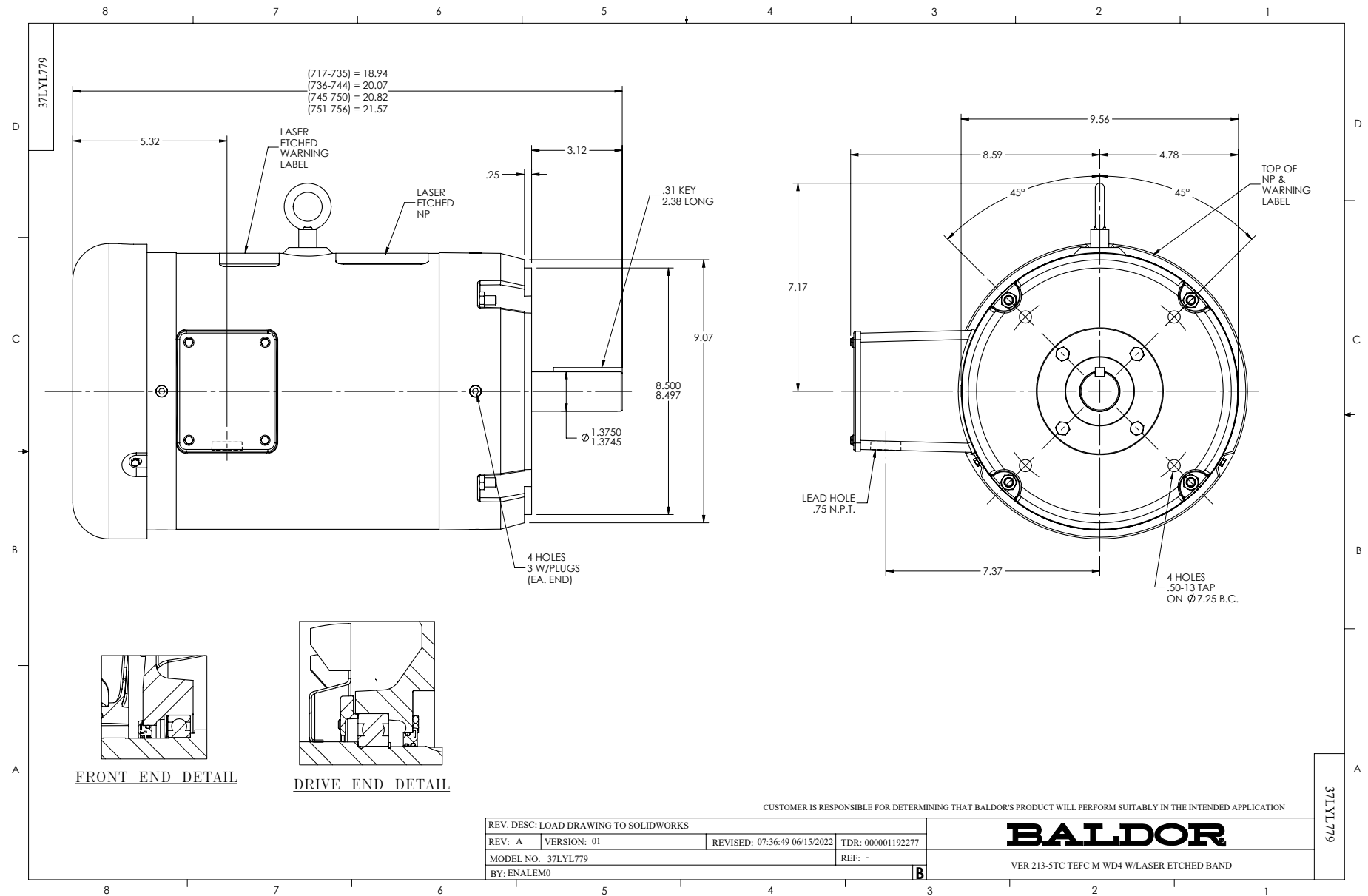
WINDING # 09WGZ910

Typical performance - not guaranteed values.

11 KW 3 PH 50 HZ 1460 RPM 400 V 0944M

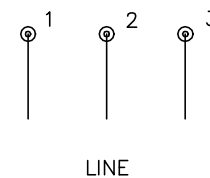
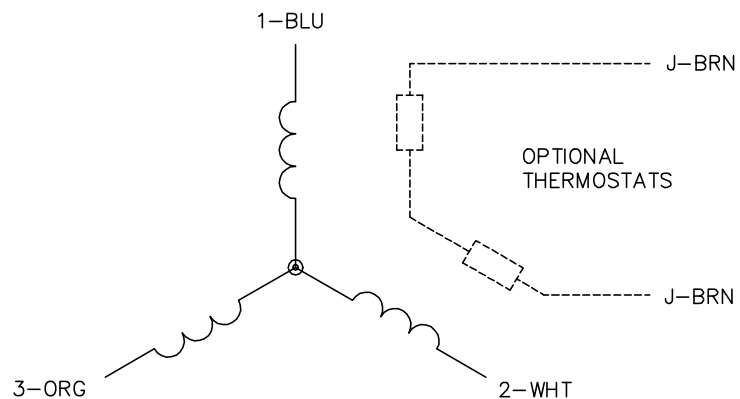
TORQUES (LB-FT): PO=163 PU=80.2 LR=100 LRA=131



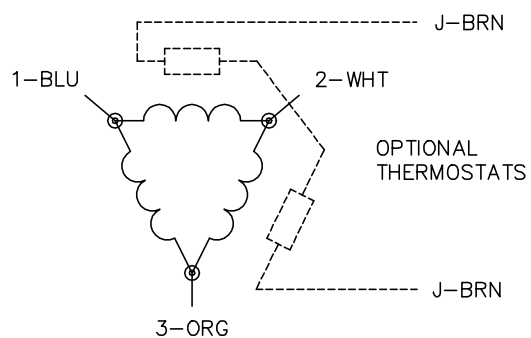


CD0006

TYPICAL WYE-CONNECTED MOTOR



TYPICAL DELTA-CONNECTED MOTOR



## NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1