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# Customer information packet

## ECTM4115T-G

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Enclosure                      | TEFC                                                             |
| Frame                          | 326T                                                             |
| Frame Material                 | Iron                                                             |
| Frequency                      | 60.00 Hz                                                         |
| Haz Area Class and Group       | None                                                             |
| Haz Area Division              | Not Applicable                                                   |
| Motor Letter Type              | Three Phase                                                      |
| Output @ Frequency             | 50.000 HP @ 60 HZ                                                |
| Phase                          | 3                                                                |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                 |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                               |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR                    |
| Ambient Temperature            | 40 °C                                                            |
| Auxiliary Box                  | NO AUXILLARY BOX                                                 |
| Auxiliary Box Lead Termination | None                                                             |
| Base Indicator                 | Rigid                                                            |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                          |
| Blower                         | None                                                             |
| Current @ Voltage              | 58.000 A @ 460.0 V<br>126.000 A @ 208.0 V<br>116.000 A @ 230.0 V |
| Design Code                    | A                                                                |
| Drip Cover                     | No Drip Cover                                                    |
| Duty Rating                    | CONT                                                             |
| Efficiency @ 100% Load         | 94.5 %                                                           |
| Electrically Isolated Bearing  | Not Electrically Isolated                                        |
| Feedback Device                | NO FEEDBACK                                                      |
| Front Shaft Indicator          | Tapped & Key                                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 12T112     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 12WGZ279   |
| Layout       | 12LYT112   |
| Eff. date    | 09-10-2025 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#8        |
| Proprietary  | False      |
| Created date | 04-14-2022 |

|                               |                              |
|-------------------------------|------------------------------|
| Heater Indicator              | Heater Included, 115 V       |
| High Voltage Full Load Amps   | 58.0 a                       |
| Insulation Class              | F                            |
| Inverter Code                 | Inverter Ready               |
| KVA Code                      | H                            |
| Lifting Lugs                  | Vertical Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing               |
| Motor Lead Quantity/Wire Size | 9 @ 6 AWG                    |
| Motor Lead Termination        | Flying Leads                 |
| Motor Standards               | NEMA                         |
| Motor Type                    | 1272M                        |
| Mounting Arrangement          | F1                           |
| Number of Poles               | 4                            |
| Overall Length                | 30.34 IN                     |
| Power Factor                  | 85                           |
| Product Family                | Chemical Processing (Not DC) |
| Pulley End Bearing Type       | Sealed Bearing               |
| Pulley Face Code              | Standard                     |
| Pulley Shaft Indicator        | Tapped & Key                 |
| Rodent Screen                 | None                         |
| RoHS Status                   | ROHS COMPLIANT               |
| Service Factor                | 1.15                         |
| Shaft Diameter                | 2.125 IN                     |
| Shaft Ground Indicator        | Shaft Grounding              |
| Shaft Rotation                | Reversible                   |
| Shaft Slinger Indicator       | Shaft Slinger                |
| Speed                         | 1775 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                         |
| Winding Thermal 2             | None                         |

## Nameplate

| NP1260       |                 |      |      |     |   |    |   |  |  |
|--------------|-----------------|------|------|-----|---|----|---|--|--|
| CAT.NO.      | ECTM4115T-G     |      |      |     |   |    |   |  |  |
| SPEC.        | 12T112Z279G1    |      |      |     |   |    |   |  |  |
| HP           | 50              |      |      |     |   |    |   |  |  |
| VOLTS        | 230/460         |      |      |     |   |    |   |  |  |
| AMP          | 116/58          |      |      |     |   |    |   |  |  |
| RPM          | 1775            |      |      |     |   |    |   |  |  |
| FRAME        | 326T            | HZ   | 60   | PH  | 3 |    |   |  |  |
| SER.F.       | 1.15            | CODE | H    | DES | A | CL | F |  |  |
| NEMA-NOM-EFF | 94.5            | PF   | 85   |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT    |      |      |     |   |    |   |  |  |
| CC           | 010A            |      |      |     |   |    |   |  |  |
| DE           | 6312            | ODE  | 6311 |     |   |    |   |  |  |
| ENCL         | TEFC            | SN   |      |     |   |    |   |  |  |
|              | INV DUTY 20:1VT |      |      |     |   |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 93227

Typical performance - not guaranteed values

| Winding: 12WGZ279-R001 |    |         | Type: 1272M                              |                     | Enclosure: TEFC         |             |           |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|-------------|-----------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |             |           |
| Rated Output (HP)      |    | 50      | Full Load Torque                         |                     | 148 LB-FT               |             |           |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |             |           |
| Full Load Amps         |    | 116/58  | Breakdown Torque                         |                     | 437.3 LB-FT             |             |           |
| R.P.M.                 |    | 1775    | Pull-up Torque                           |                     | 223.3 LB-FT             |             |           |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 255.3 LB-FT |           |
| NEMA Design Code       |    | A       | KVA Code                                 | H                   | Starting Current        |             | 407.47 A  |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 21 A                    |             |           |
| NEMA Nom. Eff.         |    | 94.5    | Power Factor                             | 85                  | Line-line Res. @ 25°C   |             | 0.11287 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |             | 66°C      |
| S.F. Amps              |    | 132/66  | Temp. Rise @ S.F. Load                   |                     | 82°C                    |             |           |
|                        |    |         | Locked-rotor Power Factor                |                     | 26.5                    |             |           |

**Load Characteristics 460 V, 60 Hz, 50 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 51     | 73     | 82     | 85     | 87     | 87     | 86   |
| Efficiency      | 91.5   | 94.3   | 94.7   | 94.5   | 93.8   | 93     | 94.1 |
| Speed           | 1791.2 | 1786.1 | 1779.1 | 1773.3 | 1766.2 | 1758.5 | 1769 |
| Line amperes    | 25.1   | 34.1   | 45.4   | 58.2   | 72     | 87     | 66.5 |

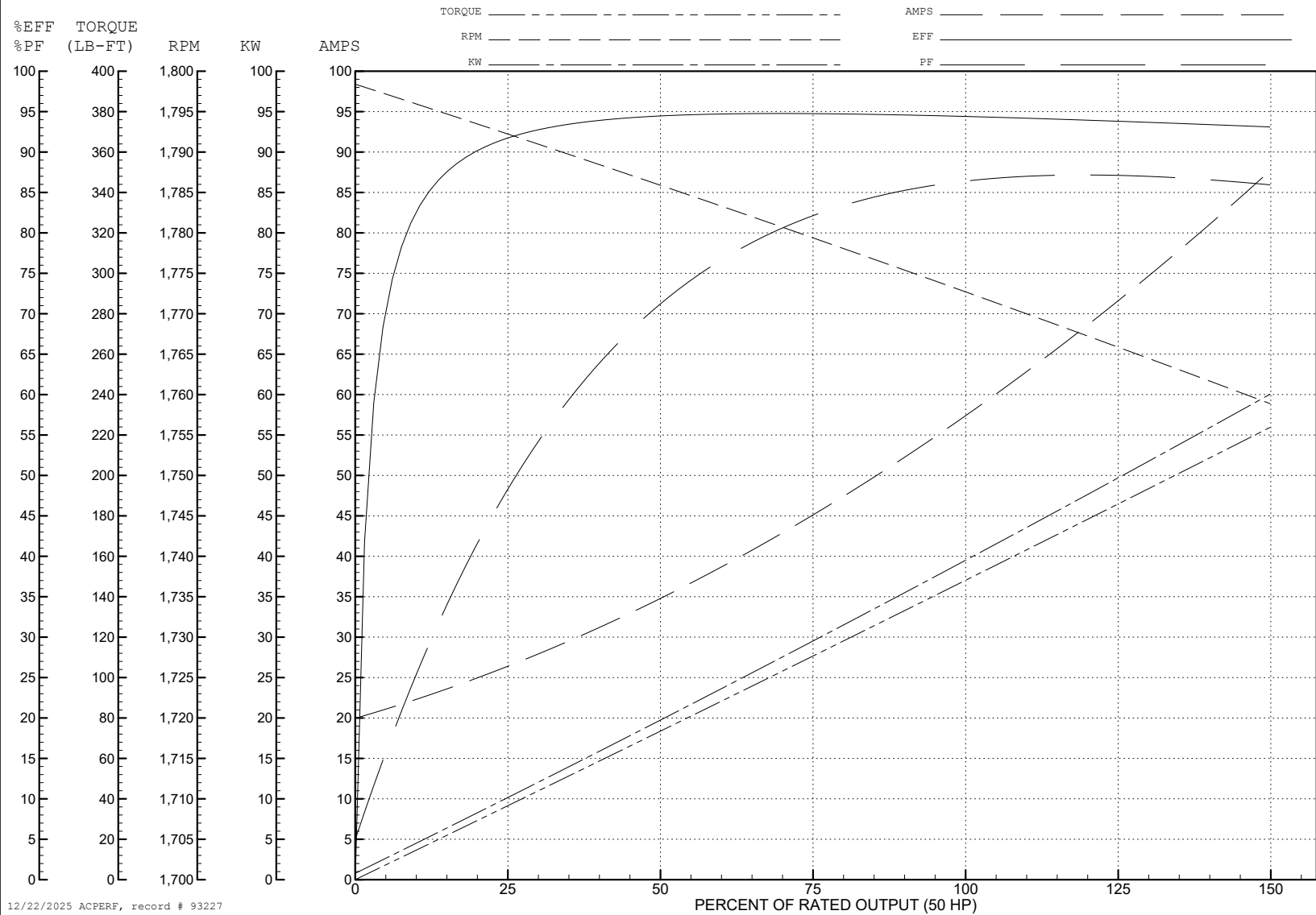
ABB Motors and Mechanical Inc.

WINDING # 12WGZ279

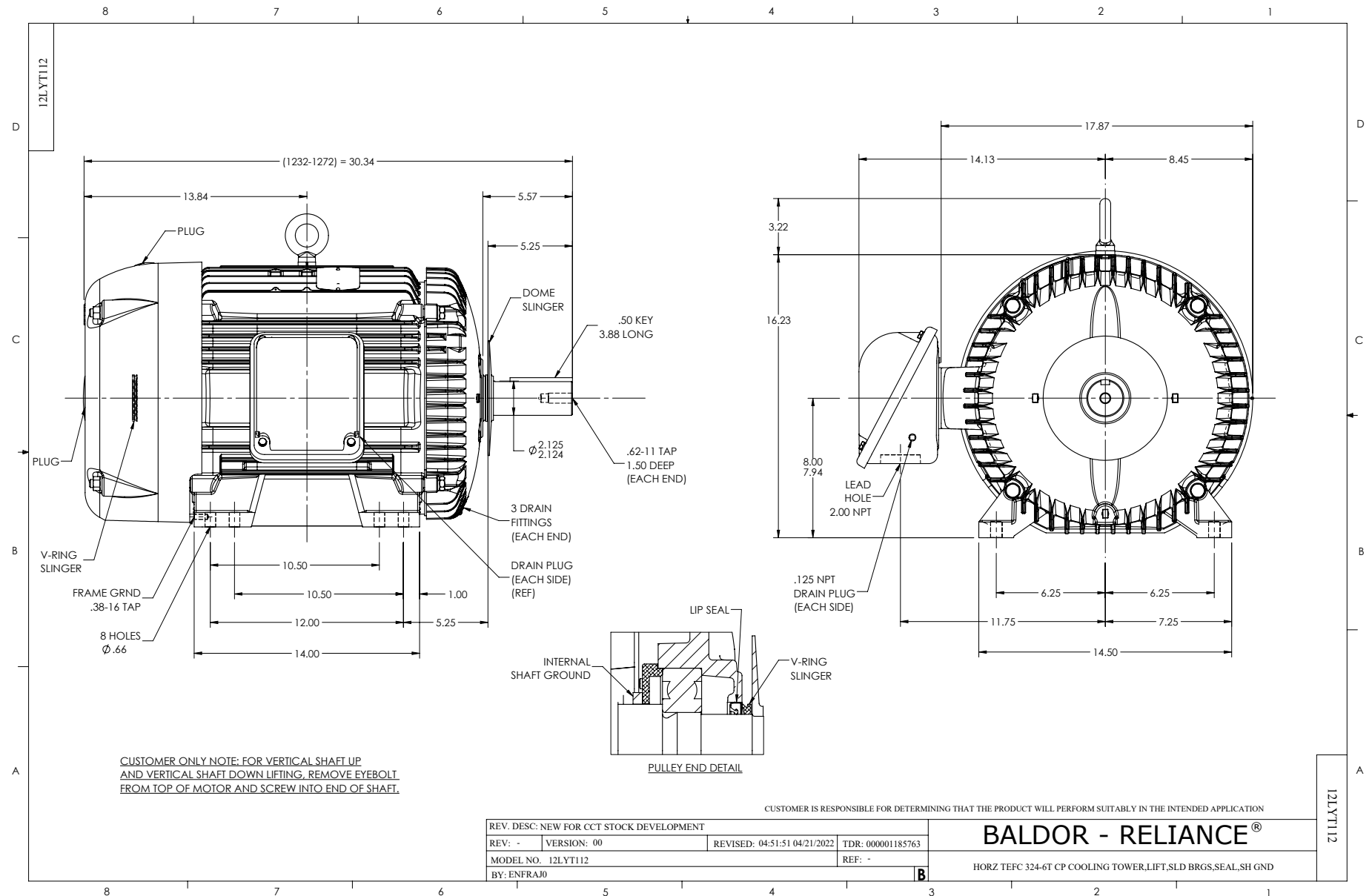
Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=437.3 PU=223.3 LR=255.3 LRA=407.47



12/22/2025 ACPERF, record # 93227



CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## 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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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