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# Customer information packet

## ECP4117T-5

30HP, 1180RPM, 3PH, 60HZ, 326T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 326T                                                     |
| Frame Material                 | Iron                                                     |
| Frequency                      | 60.00 Hz                                                 |
| Haz Area Class and Group       | CL I GP A,B,C,D                                          |
| Haz Area Division              | Division II                                              |
| Motor Letter Type              | Three Phase                                              |
| Output @ Frequency             | 30.000 HP @ 60 HZ                                        |
| Phase                          | 3                                                        |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                         |
| Voltage @ Frequency            | 575.0 V @ 60 HZ                                          |
| Agency Approvals               | CCSA US<br>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                                                     |
| Constant Torque Speed Range    | 1                                                        |
| Current @ Voltage              | 30.000 A @ 575.0 V                                       |
| Design Code                    | B                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 93.0 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Enclosure Modification         | Severe Duty Features                                     |
| Feedback Device                | NO FEEDBACK                                              |
| Haz Area Temp Code             | T3                                                       |

## Part detail

|              |            |
|--------------|------------|
| Revision     | K          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 12WGZ235   |
| Layout       | 12LYF904   |
| Eff. date    | 11-03-2025 |
| CD Diagram   | CD0006     |
| Poles        | 06         |
| Leads        | 3#10       |
| Proprietary  | False      |
| Created date | 06-20-2019 |

|                             |                             |
|-----------------------------|-----------------------------|
| Heater Indicator            | No Heater                   |
| High Voltage Full Load Amps | 30.0 a                      |
| Insulation Class            | F                           |
| Inverter Code               | Inverter Duty               |
| IP Rating                   | IP55                        |
| KVA Code                    | G                           |
| Lifting Lugs                | Standard Lifting Lugs       |
| Locked Bearing Indicator    | Locked Bearing              |
| Max Speed                   | 1800 rpm                    |
| Motor Lead Termination      | Flying Leads                |
| Motor Standards             | NEMA                        |
| Motor Type                  | 1268M                       |
| Mounting Arrangement        | F1                          |
| Number of Poles             | 6                           |
| Overall Length              | 30.28 IN                    |
| Power Factor                | 80                          |
| Product Family              | Super-E Chemical Processing |
| Pulley Face Code            | Standard                    |
| Rodent Screen               | None                        |
| Service Factor              | 1.15                        |
| Shaft Diameter              | 2.125 IN                    |
| Shaft Ground Indicator      | No Shaft Grounding          |
| Shaft Rotation              | Reversible                  |
| Speed                       | 1180 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

## NP3241

|            |              |                    |    |              |       |                         |          |         |            |            |      |          |    |
|------------|--------------|--------------------|----|--------------|-------|-------------------------|----------|---------|------------|------------|------|----------|----|
| CAT.NO.    | ECP4117T-5   |                    |    | P/N          |       |                         |          |         |            | ENCLOSURE  |      | TEFC     |    |
| SPEC.      | 12-0000153   |                    | CC | 010A         | FRAME | 326T                    |          | S/N     |            |            |      |          |    |
| HP         | 30           |                    |    | CLASS        | F     | HZ                      | 60       | DES     | B          |            |      |          |    |
| RPM        | 1180         |                    |    | RPM MAX      | 1800  |                         | PH       | 3       | KVA-CODE   | G          |      |          |    |
| VOLT       | 575          |                    |    | MOTOR WEIGHT |       |                         | 634      |         |            |            |      |          |    |
| AMP        | 30           |                    |    | SER.F.       | 1.15  | PF                      | 80       | ODE BRG | 6312       | DE BRG     | 6312 |          |    |
| RATING     | 40C AMB-CONT |                    |    | NEMA-NOM-EFF |       |                         | 93       |         | GREASE     | POLYREX EM |      |          |    |
|            |              |                    |    |              |       |                         |          |         |            |            |      |          |    |
|            |              |                    |    |              |       |                         |          |         |            |            |      |          |    |
|            |              |                    |    |              |       |                         | INV.TYPE |         | PWM        |            |      |          |    |
| TEMP CODE  | T3           | INVERTER-TEMP-CODE |    |              | 200   |                         |          |         |            |            |      |          |    |
| TEMP =     | 200          | C HP FR            | 60 | C HP TO      | 90    |                         |          |         |            |            |      |          |    |
| CT HZ FROM | 1            | CT HZ TO           |    | 60           |       |                         |          |         |            |            |      |          |    |
| HTR-VOLTS  |              | HTR-AMPS           |    | HTR-WATTS    |       | MAX. SPACE HEATER TEMP. |          |         | VT HZ FROM |            | O    | VT HZ TO | 60 |

**AC Induction Motor Performance Data**

Record # 69864

Typical performance - not guaranteed values

| Winding: 12WGZ235-R001 |    |              |   | Type: 1268M                           |  | Enclosure: TEFC |  |
|------------------------|----|--------------|---|---------------------------------------|--|-----------------|--|
| Nameplate Data         |    |              |   | 575 V, 60 Hz:<br>Single Voltage Motor |  |                 |  |
| Rated Output (HP)      |    | 30           |   | Full Load Torque                      |  | 134 LB-FT       |  |
| Volts                  |    | 575          |   | Start Configuration                   |  | direct on line  |  |
| Full Load Amps         |    | 30           |   | Breakdown Torque                      |  | 340 LB-FT       |  |
| R.P.M.                 |    | 1180         |   | Pull-up Torque                        |  | 153 LB-FT       |  |
| Hz                     | 60 | Phase        | 3 | Locked-rotor Torque                   |  | 188 LB-FT       |  |
| NEMA Design Code       |    | B            |   | KVA Code                              |  | G               |  |
| Service Factor (S.F.)  |    | 1.15         |   | Starting Current                      |  | 172 A           |  |
| NEMA Nom. Eff.         |    | 93           |   | Power Factor                          |  | 80              |  |
| Rating - Duty          |    | 40C AMB-CONT |   | Temp. Rise @ Rated Load               |  | 55°C            |  |
| S.F. Amps              |    |              |   | Temp. Rise @ S.F. Load                |  | 69°C            |  |
|                        |    |              |   | Locked-rotor Power Factor             |  | 29.2            |  |
|                        |    |              |   | Rotor inertia                         |  | 13 LB-FT2       |  |

**Load Characteristics 575 V, 60 Hz, 30 HP**

| % of Rated Load | 25    | 50    | 75    | 100   | 125   | 150   | S.F. |
|-----------------|-------|-------|-------|-------|-------|-------|------|
| Power Factor    | 45    | 67    | 76    | 80    | 82    | 81    | 81   |
| Efficiency      | 90.6  | 93.5  | 94    | 93.4  | 92.5  | 91.1  | 92.9 |
| Speed           | 1196  | 1191  | 1186  | 1180  | 1174  | 1166  | 1176 |
| Line amperes    | 13.67 | 17.93 | 23.55 | 29.99 | 37.27 | 45.63 | 34.4 |

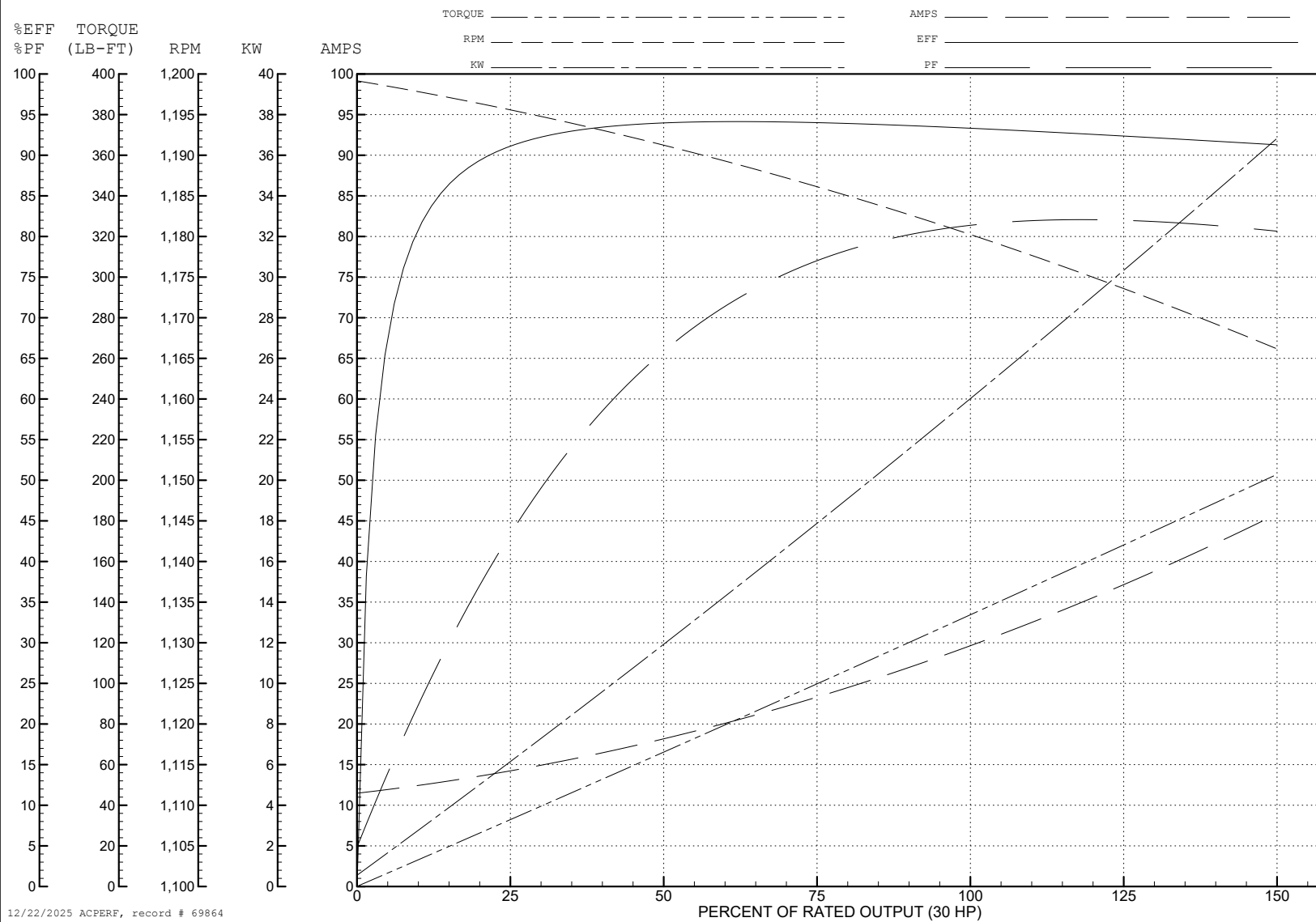
ABB Motors and Mechanical Inc.

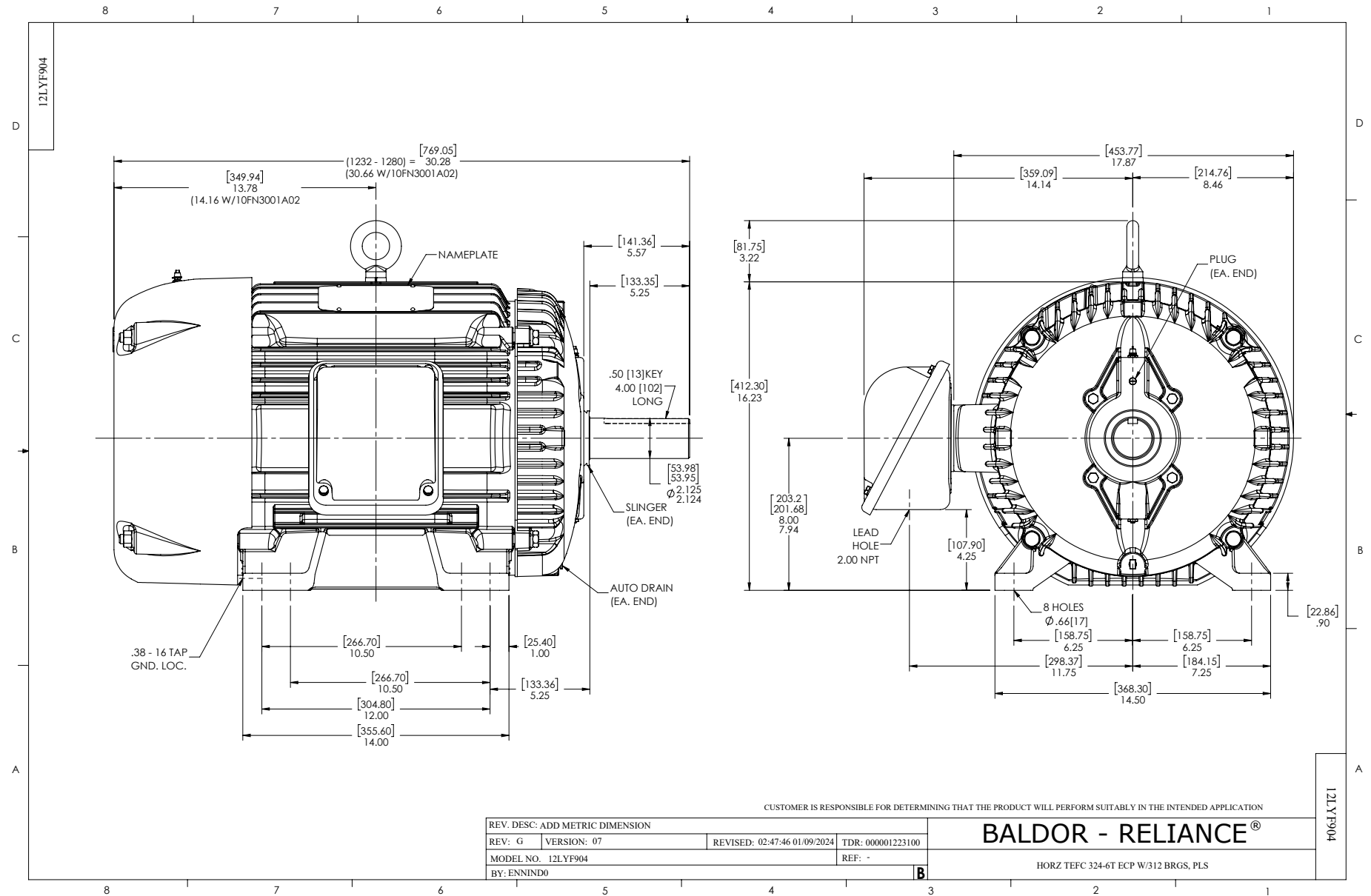
WINDING # 12WGZ235

Typical performance - not guaranteed values.

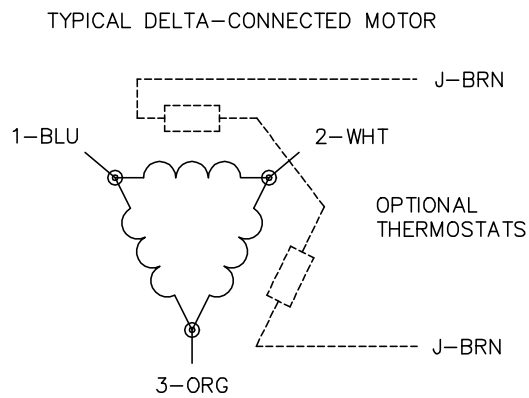
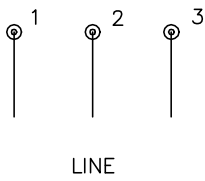
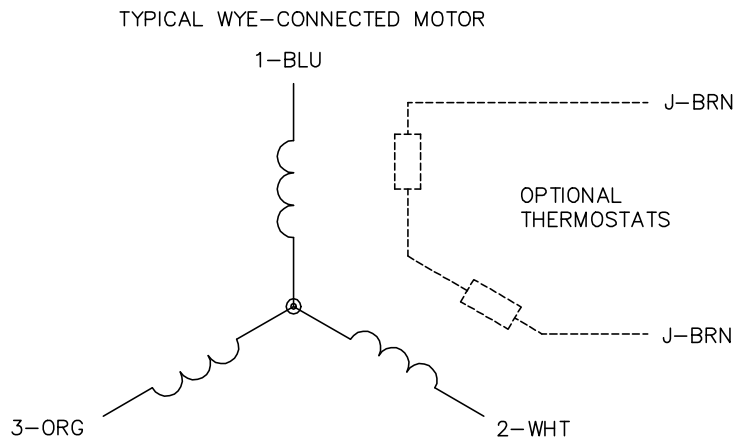
30 HP 3 PH 60 HZ 1180 RPM 575 V 1268M

TORQUES (LB-FT): PO=340 PU=153 LR=188 LRA=172





CD0006



- 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