

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP3667T

1.5HP, 1170RPM, 3PH, 60HZ, 182T, 0630M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 182T                                                        |
| <b>Frame Material</b>                 | Iron                                                        |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | CLI GP A,B,C,D                                              |
| <b>Haz Area Division</b>              | Division II                                                 |
| <b>Motor Letter Type</b>              | Three Phase                                                 |
| <b>Output @ Frequency</b>             | 1.500 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>208.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CCSA US    |
| <b>Ambient Temperature</b>            | 40 °C                                                       |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                            |
| <b>Auxiliary Box Lead Termination</b> | None                                                        |
| <b>Base Indicator</b>                 | Rigid                                                       |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Constant Torque Speed Range</b>    | 1.5                                                         |
| <b>Current @ Voltage</b>              | 5.200 A @ 208.0 V<br>5.000 A @ 230.0 V<br>2.500 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 87.5 %                                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | X          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 06H483     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 06WGW969   |
| <b>Layout</b>       | 06LYH483   |
| <b>Eff. date</b>    | 03-05-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-02-2010 |

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Electrically Isolated Bearing</b> | Not Electrically Isolated    |
| <b>Enclosure Modification</b>        | Severe Duty Features         |
| <b>Feedback Device</b>               | NO FEEDBACK                  |
| <b>Front Face Code</b>               | Standard                     |
| <b>Front Shaft Indicator</b>         | None                         |
| <b>Haz Area Temp Code</b>            | T3C                          |
| <b>Heater Indicator</b>              | No Heater                    |
| <b>High Voltage Full Load Amps</b>   | 2.5 a                        |
| <b>Insulation Class</b>              | F                            |
| <b>Inverter Code</b>                 | Inverter Ready               |
| <b>KVA Code</b>                      | K                            |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs        |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing            |
| <b>Max Speed</b>                     | 1800 rpm                     |
| <b>Motor Lead Exit</b>               | Ko Box                       |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 16 AWG                   |
| <b>Motor Lead Termination</b>        | Flying Leads                 |
| <b>Motor Standards</b>               | NEMA                         |
| <b>Motor Type</b>                    | 0630M                        |
| <b>Mounting Arrangement</b>          | F1                           |
| <b>Number of Poles</b>               | 6                            |
| <b>Overall Length</b>                | 15.93 IN                     |
| <b>Power Factor</b>                  | 65                           |
| <b>Product Family</b>                | Chemical Processing (Not DC) |
| <b>Pulley End Bearing Type</b>       | Ball                         |
| <b>Pulley Face Code</b>              | Standard                     |
| <b>Pulley Shaft Indicator</b>        | Standard                     |
| <b>Rodent Screen</b>                 | None                         |
| <b>Service Factor</b>                | 1.15                         |
| <b>Shaft Diameter</b>                | 1.125 IN                     |
| <b>Shaft Extension Location</b>      | Pulley End                   |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding           |
| <b>Shaft Rotation</b>                | Reversible                   |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger                |

|                            |                     |
|----------------------------|---------------------|
| Speed                      | 1170 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**

| NP3257       |              |      |      |      |    |    |   |  |  |
|--------------|--------------|------|------|------|----|----|---|--|--|
| CAT.NO.      | ECP3667T     |      |      |      |    |    |   |  |  |
| SPEC.        | 06H483W969G1 |      |      |      |    |    |   |  |  |
| HP           | 1.5 TE       |      |      |      |    |    |   |  |  |
| VOLTS        | 208-230/460  |      |      |      |    |    |   |  |  |
| AMP          | 5.2-5/2.5    |      |      |      |    |    |   |  |  |
| RPM          | 1170         |      |      |      |    |    |   |  |  |
| FRAME        | 182T         | HZ   |      | 60   | PH |    | 3 |  |  |
| SER.F.       | 1.15         | CODE | K    | DES  | B  | CL | F |  |  |
| RATING       | 40C AMB-CONT |      |      |      |    |    |   |  |  |
| SN           |              |      |      |      |    |    |   |  |  |
| DE           | 6206         | ODE  |      | 6206 |    |    |   |  |  |
| NEMA-NOM-EFF | 87.5         | PF   | 65   |      |    |    |   |  |  |
| G.MIN.EFF    | 87.5         | CC   | 010A |      |    |    |   |  |  |
| T. CODE      | T3C          | T=   | 160  |      |    |    |   |  |  |

| NP3260      |              |                         |     |
|-------------|--------------|-------------------------|-----|
| SPEC.       | 06H483W969G1 |                         |     |
| D.E. BRG.   | 30BC02XP30X  |                         |     |
| O.D.E. BRG. | 30BC02XP30X  |                         |     |
| GREASE      | POLYREX EM   |                         |     |
| RPM MAX     | 1800         | MAX. KVAR               | N/A |
| BLANK       |              |                         |     |
| INV.TYPE    | PWM          |                         |     |
| T=          | 160          |                         |     |
| C HP FR     | 60           | C HP TO                 | 90  |
| CT HZ FROM  | 1.5          | CT HZ TO                | 60  |
| VT HZ FROM  | 0-           | VT HZ TO                | 60  |
| HTR-VOLTS   |              | HTR-AMPS                |     |
| HTR-WATTS   |              | MAX. SPACE HEATER TEMP. |     |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA213042      | SA 06H483W969G1                          | 1.000 ea |
| RA200269      | RA 06H483W969G1                          | 1.000 ea |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID          | 1.000 ea |
| HW3201A05     | 3/8-16 EYEBOLT                           | 1.000 ea |
| 06CB1000A02G  | CONDUIT BOX, MACH GRAY                   | 1.000 ea |
| RM1016        | LEAD SEPARATOR GASKET - 305/306 C.P.MOTO | 1.000 ea |
| 51XF2520A16   | SCREW,HEX SER SLT HD,ZN 1/4-20X1.00LG TD | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B02     | BRASS CUP WASHER W/GROUND SYMBOL TAB,    | 1.000 ea |
| 10XN2520S06   | 1/4 20X3/8 HX HD CAP S.S.                | 2.000 ea |
| WD1000B16     | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 36FE1100B72G  | FREP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| 36PE1100A29G  | PUEP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HA3101A34     | THRUBOLT- 1/4-20 X 10.375                | 4.000 ea |
| XY2520A12     | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 ea |
| 06FH1004A01G  | FAN HOUSING MACH, W/GRAY EPOXY           | 1.000 ea |
| WD4100A02     | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 ea |
| 10XN2520A24   | 1/4-20X 1 1/2 HEX HD X                   | 3.000 ea |
| 06CB1502G     | LIPPED CONDUIT BOX LID CAST, GRAY EPOXY  | 1.000 ea |
| 06GS1003      | GASKET, KOBX LID, 1/8" THICK BLACK NEOPR | 1.000 ea |
| 10XN2520A12   | 1/4-20 X 3/4 HEX HEAD CAP                | 2.000 ea |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 ea |

|             |                                          |          |
|-------------|------------------------------------------|----------|
| HA1005A22   | SLINGER, OD 2.00, ID 1.14, 206 BRG, GM   | 1.000 ea |
| HW4600B36SP | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| HW2501E16   | KEY, 1/4 SQ X 1.750                      | 1.000 ea |
| HA7000A02   | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| MJ5001A27   | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1624      | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LB1002N     | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 ea |
| MJ1000A02   | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| MG1025N19   | WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8  | 0.028 ga |
| LB1449      | DIV-2/NEC WARNING LABEL                  | 1.000 ea |
| LC0005      | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP3257      | SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM | 1.000 ea |
| NP3260      | SS CP SUPER-E AUX DATA INFORMATION       | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| 36PA1001    | PKG GRP, PRINT PK1017A07                 | 1.000 ea |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 47055

Typical performance - not guaranteed values

| Winding: 06WGW969-R015 |          |                   | Type: 0630M                              |  | Enclosure: TEFC |  |
|------------------------|----------|-------------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |          |                   | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |          | 1.5               | Full Load Torque                         |  | 6.77 LB-FT      |  |
| Volts                  |          | 208-230/460       | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |          | 5.2-5/2.5         | Breakdown Torque                         |  | 24 LB-FT        |  |
| R.P.M.                 |          | 1170              | Pull-up Torque                           |  | 12.5 LB-FT      |  |
| Hz                     | 60 Phase | 3                 | Locked-rotor Torque                      |  | 15.8 LB-FT      |  |
| NEMA Design Code       |          | B KVA Code        | Starting Current                         |  | 16.19 A         |  |
| Service Factor (S.F.)  |          | 1.15              | No-load Current                          |  | 1.63 A          |  |
| NEMA Nom. Eff.         |          | 87.5 Power Factor | Line-line Res. @ 25°C                    |  | 7.34 Ω          |  |
| Rating - Duty          |          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  |  | 26°C            |  |
| S.F. Amps              |          |                   | Temp. Rise @ S.F. Load                   |  | 32°C            |  |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 27     | 44     | 56     | 65     | 69     | 73     | 67   |
| Efficiency      | 76.9   | 85     | 87.1   | 87.6   | 87     | 86     | 87.2 |
| Speed           | 1193.7 | 1186.9 | 1179.4 | 1171.7 | 1163.1 | 1152.9 | 1167 |
| Line amperes    | 1.7    | 1.9    | 2.18   | 2.51   | 2.92   | 3.38   | 2.76 |

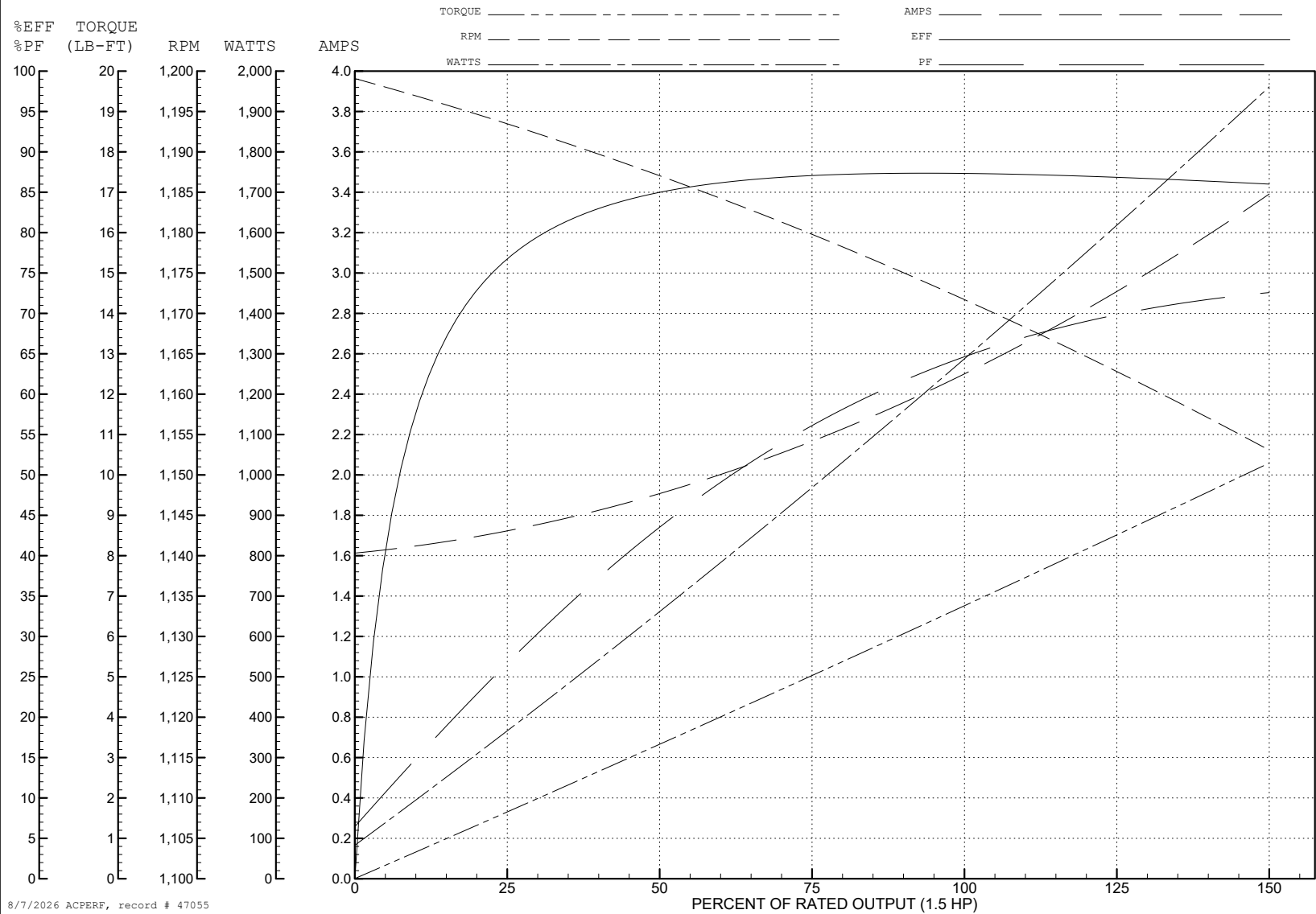
ABB Motors and Mechanical Inc.

WINDING # 06WGW969

Typical performance - not guaranteed values.

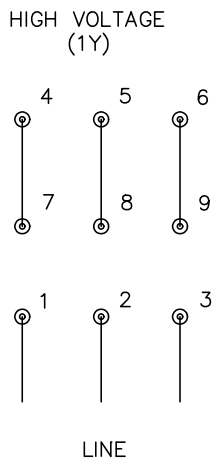
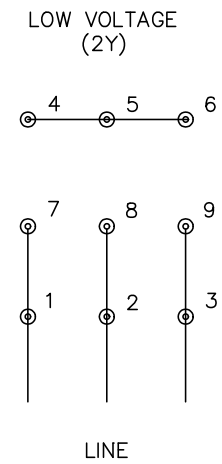
1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

TORQUES (LB-FT): PO=24 PU=12.5 LR=15.8 LRA=16.19





CD0005



- 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 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005