

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP3772T-4

2HP, 865RPM, 3PH, 60HZ, 213T, 0732M, TEFC, F1, N

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 213T                                                     |
| Frame Material                 | Iron                                                     |
| Frequency                      | 60.00 Hz                                                 |
| Haz Area Class and Group       | CLI GP A,B,C,D                                           |
| Haz Area Division              | Division II                                              |
| Motor Letter Type              | Three Phase                                              |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                         |
| Phase                          | 3                                                        |
| Synchronous Speed @ Frequency  | 900 RPM @ 60 HZ                                          |
| Voltage @ Frequency            | 460.0 V @ 60 HZ                                          |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CCSA US |
| 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    | 2                                                        |
| Current @ Voltage              | 3.800 A @ 460.0 V                                        |
| Design Code                    | B                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 85.5 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Enclosure Modification         | Severe Duty Features                                     |
| Feedback Device                | NO FEEDBACK                                              |
| Front Face Code                | Standard                                                 |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | Y          |
| Type         | AC         |
| Mech. spec.  | 07K374     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGY780   |
| Layout       | 07LYK374   |
| Eff. date    | 10-01-2025 |
| CD Diagram   | CD0006     |
| Poles        | 08         |
| Leads        | 3#14       |
| Proprietary  | False      |
| Created date | 01-04-2011 |

|                               |                              |
|-------------------------------|------------------------------|
| Front Shaft Indicator         | None                         |
| Haz Area Temp Code            | T3C                          |
| Heater Indicator              | No Heater                    |
| High Voltage Full Load Amps   | 3.8 a                        |
| Insulation Class              | F                            |
| Inverter Code                 | Inverter Ready               |
| KVA Code                      | H                            |
| Lifting Lugs                  | Standard Lifting Lugs        |
| Locked Bearing Indicator      | No Locked Bearing            |
| Max Speed                     | 1350 rpm                     |
| Motor Lead Exit               | Ko Box                       |
| Motor Lead Quantity/Wire Size | 3 @ 14 AWG                   |
| Motor Lead Termination        | Flying Leads                 |
| Motor Standards               | NEMA                         |
| Motor Type                    | 0732M                        |
| Mounting Arrangement          | F1                           |
| Number of Poles               | 8                            |
| Overall Length                | 19.50 IN                     |
| Power Factor                  | 57                           |
| Product Family                | Chemical Processing (Not DC) |
| Pulley End Bearing Type       | Ball                         |
| Pulley Face Code              | Standard                     |
| Pulley Shaft Indicator        | Standard                     |
| Rodent Screen                 | None                         |
| Service Factor                | 1.15                         |
| Shaft Diameter                | 1.375 IN                     |
| Shaft Extension Location      | Pulley End                   |
| Shaft Ground Indicator        | No Shaft Grounding           |
| Shaft Rotation                | Reversible                   |
| Shaft Slinger Indicator       | Shaft Slinger                |
| Speed                         | 865 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**

| NP3258       |              |      |  |      |     |  |   |    |   |
|--------------|--------------|------|--|------|-----|--|---|----|---|
| CAT.NO.      | ECP3772T-4   |      |  |      |     |  |   |    |   |
| SPEC.        | 07K374Y780G1 |      |  |      |     |  |   |    |   |
| HP           | 2 TE         |      |  |      |     |  |   |    |   |
| VOLTS        | 460          |      |  |      |     |  |   |    |   |
| AMP          | 3.8          |      |  |      |     |  |   |    |   |
| RPM          | 865          |      |  |      |     |  |   |    |   |
| FRAME        | 213T         | HZ   |  | 60   | PH  |  | 3 |    |   |
| SER.F.       | 1.15         | CODE |  | H    | DES |  | B | CL | F |
| RATING       | 40C AMB-CONT |      |  |      |     |  |   |    |   |
| SN           |              |      |  |      |     |  |   |    |   |
| DE           | 6307         | ODE  |  | 6307 |     |  |   |    |   |
| NEMA-NOM-EFF | 85.5         | PF   |  | 57   |     |  |   |    |   |
| G.MIN.EFF    | 82.5         | CC   |  | 010A |     |  |   |    |   |
| T. CODE      | T3C          | T=   |  | 160  |     |  |   |    |   |

| NP3261      |              |                         |      |
|-------------|--------------|-------------------------|------|
| SPEC.       | 07K374Y780G1 |                         |      |
| D.E. BRG.   | 35BC03XP30X  |                         |      |
| O.D.E. BRG. | 35BC03XP30X  |                         |      |
| GREASE      | POLYREX EM   |                         |      |
| RPM MAX     | 1350         | MAX. KVAR               | 1.67 |
| BLANK       |              |                         |      |
| INV.TYPE    | PWM          |                         |      |
| T=          | 160          |                         |      |
| C HP FR     | 60           | C HP TO                 | 90   |
| CT HZ FROM  | 2            | CT HZ TO                | 60   |
| VT HZ FROM  | 0-           | VT HZ TO                | 60   |
| HTR-VOLTS   |              | HTR-AMPS                |      |
| HTR-WATTS   |              | MAX. SPACE HEATER TEMP. |      |

**AC Induction Motor Performance Data**

Record # 53272

Typical performance - not guaranteed values

| Winding: 07WGY780-R008 |    |              | Type: 0732M                           |                           | Enclosure: TEFC |              |
|------------------------|----|--------------|---------------------------------------|---------------------------|-----------------|--------------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>Single Voltage Motor |                           |                 |              |
| Rated Output (HP)      |    | 2            | Full Load Torque                      |                           | 12.1 LB-FT      |              |
| Volts                  |    | 460          | Start Configuration                   |                           | direct on line  |              |
| Full Load Amps         |    | 3.8          | Breakdown Torque                      |                           | 33.1 LB-FT      |              |
| R.P.M.                 |    | 865          | Pull-up Torque                        |                           | 19.5 LB-FT      |              |
| Hz                     | 60 | Phase        | 3                                     | Locked-rotor Torque       |                 | 21 LB-FT     |
| NEMA Design Code       |    | B            | KVA Code                              |                           | H               |              |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                       |                           | 2.58 A          |              |
| NEMA Nom. Eff.         |    | 85.5         | Power Factor                          |                           | 57              |              |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load   |                 | 34°C         |
| S.F. Amps              |    |              |                                       | Temp. Rise @ S.F. Load    |                 | 40°C         |
|                        |    |              |                                       | Locked-rotor Power Factor |                 | 34.7         |
|                        |    |              |                                       | Rotor inertia             |                 | 0.796 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 23   | 38   | 48   | 56   | 62   | 66   | 60   |
| Efficiency      | 73.3 | 82.4 | 85.4 | 86.7 | 84.4 | 82.8 | 85.3 |
| Speed           | 893  | 885  | 878  | 869  | 859  | 844  | 863  |
| Line amperes    | 2.68 | 2.96 | 3.35 | 3.84 | 4.47 | 5.16 | 4.22 |

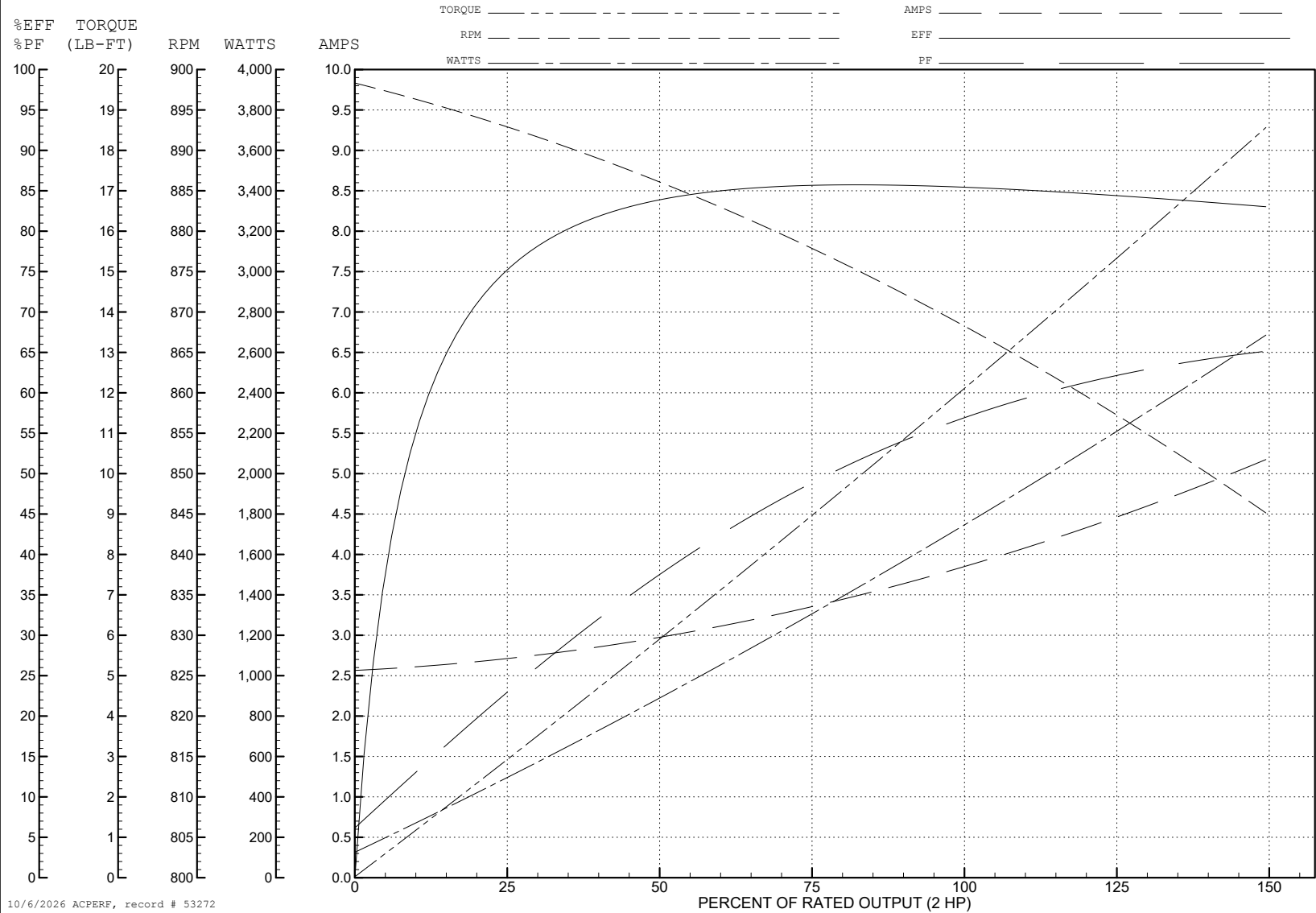
ABB Motors and Mechanical Inc.

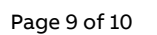
WINDING # 07WGY780

Typical performance - not guaranteed values.

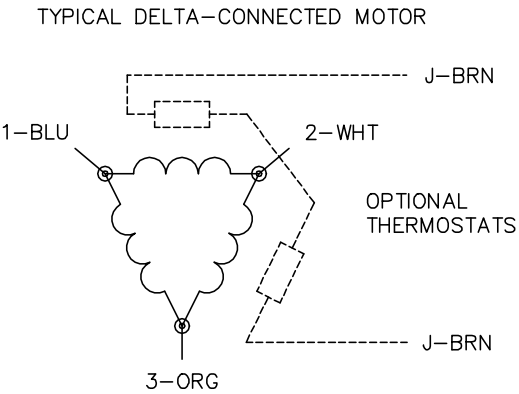
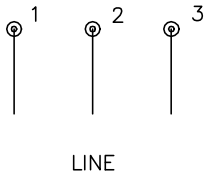
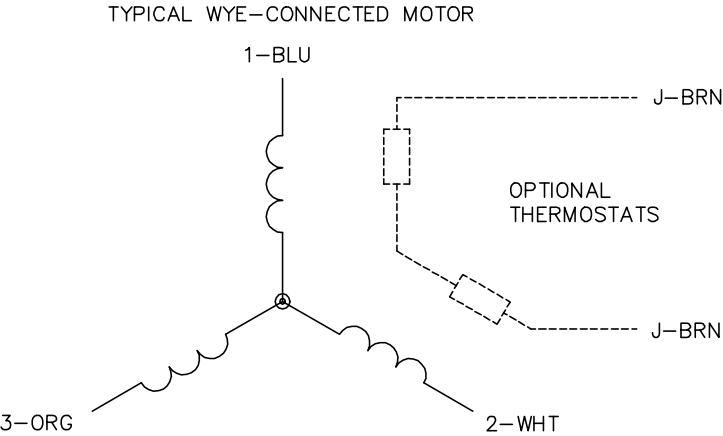
2 HP 3 PH 60 HZ 865 RPM 460 V 0732M

TORQUES (LB-FT): PO=33.1 PU=19.5 LR=21 LRA=18.3





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