

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM7065T

10//7.5HP, 1180//980RPM, 3PH, 60//50HZ, 256T

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                       |                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                                                                       |
| <b>Frame</b>                          | 256T                                                                                                       |
| <b>Frame Material</b>                 | Iron                                                                                                       |
| <b>Frequency</b>                      | 50.00 Hz<br>60.00 Hz                                                                                       |
| <b>Haz Area Class and Group</b>       | CLI GP D; CLII GP F,G                                                                                      |
| <b>Haz Area Division</b>              | Division I                                                                                                 |
| <b>Motor Letter Type</b>              | Three Phase                                                                                                |
| <b>Output @ Frequency</b>             | 10.000 HP @ 60 HZ<br>7.500 HP @ 50 HZ                                                                      |
| <b>Phase</b>                          | 3                                                                                                          |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                                                                           |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>380.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>190.0 V @ 50 HZ                                   |
| <b>Agency Approvals</b>               | CSA<br>UL                                                                                                  |
| <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>Current @ Voltage</b>              | 30.400 A @ 208.0 V<br>29.200 A @ 230.0 V<br>27.400 A @ 190.0 V<br>14.600 A @ 460.0 V<br>13.700 A @ 380.0 V |
| <b>Design Code</b>                    | A                                                                                                          |
| <b>Drip Cover</b>                     | No Drip Cover                                                                                              |
| <b>Duty Rating</b>                    | CONT                                                                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AB         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09E270     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGZ383   |
| <b>Layout</b>       | 09LYE270   |
| <b>Eff. date</b>    | 02-15-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 06-15-2010 |

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Efficiency @ 100% Load</b>        | 91.0 %                    |
| <b>Electrically Isolated Bearing</b> | Not Electrically Isolated |
| <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>   | 13.7 a                    |
| <b>Insulation Class</b>              | B                         |
| <b>Inverter Code</b>                 | Not Inverter              |
| <b>IP Rating</b>                     | NONE                      |
| <b>KVA Code</b>                      | J                         |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing            |
| <b>Motor Lead Exit</b>               | Ko Box                    |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 12 AWG                |
| <b>Motor Lead Termination</b>        | Flying Leads              |
| <b>Motor Standards</b>               | NEMA                      |
| <b>Motor Type</b>                    | X0956M                    |
| <b>Mounting Arrangement</b>          | F1                        |
| <b>Number of Poles</b>               | 6                         |
| <b>Overall Length</b>                | 25.50 IN                  |
| <b>Power Factor</b>                  | 70                        |
| <b>Product Family</b>                | Hazardous Location Motor  |
| <b>Pulley End Bearing Type</b>       | Ball                      |
| <b>Pulley Face Code</b>              | Standard                  |
| <b>Pulley Shaft Indicator</b>        | None                      |
| <b>Rodent Screen</b>                 | None                      |
| <b>RoHS Status</b>                   | ROHS NON-COMPLIANT        |
| <b>Service Factor</b>                | 1.00                      |
| <b>Shaft Diameter</b>                | 1.625 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>    | No Slinger                 |
| <b>Speed</b>                      | 1180 rpm<br>980 rpm        |
| <b>Speed Code</b>                 | Single Speed               |
| <b>Starting Method</b>            | Direct on line             |
| <b>Thermal Device - Bearing</b>   | None                       |
| <b>Thermal Device - Winding</b>   | Normally Closed Thermostat |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor        |
| <b>Winding Thermal 1</b>          | None                       |
| <b>Winding Thermal 2</b>          | None                       |

**Nameplate**

| NP1426XPSLEV |                      |              |      |      |   |  |  |  |    |
|--------------|----------------------|--------------|------|------|---|--|--|--|----|
| NO.          |                      | CC           | 010A |      |   |  |  |  |    |
| SER.         |                      |              |      |      |   |  |  |  |    |
| SPEC.        | 09E270Z383G1         |              |      |      |   |  |  |  |    |
| CAT.NO.      | EM7065T              |              |      |      |   |  |  |  |    |
| HP           | 10//7.5              | T. CODE      | T3C  |      |   |  |  |  |    |
| VOLTS        | 230/460//190/380     |              |      |      |   |  |  |  |    |
| AMPS         | 29.2/14.6//27.4/13.7 |              |      |      |   |  |  |  |    |
| RPM          | 1180//980            |              |      |      |   |  |  |  |    |
| HZ           | 60//50               | PH           | 3    | CL   | B |  |  |  |    |
| SER.F.       | 1.00                 | DES          | A    | CODE | J |  |  |  |    |
| RATING       | 40C AMB-CONT         |              |      |      |   |  |  |  |    |
| FRAME        | 256T                 | NEMA-NOM-EFF |      |      |   |  |  |  | 91 |
|              |                      | PF           | 70   |      |   |  |  |  |    |
| BLANK        |                      |              |      |      |   |  |  |  |    |

**AC Induction Motor Performance Data**

Record # 31469

Typical performance - not guaranteed values

| Winding: 09WGZ383-R004 |  |                      | Type: 0956M  |                                          | Enclosure: XPFC     |                           |            |            |
|------------------------|--|----------------------|--------------|------------------------------------------|---------------------|---------------------------|------------|------------|
| Nameplate Data         |  |                      |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |            |
| Rated Output (HP)      |  | 10//7.5              |              | Full Load Torque                         |                     | 44.4 LB-FT                |            |            |
| Volts                  |  | 230/460//190/380     |              | Start Configuration                      |                     | direct on line            |            |            |
| Full Load Amps         |  | 29.2/14.6//27.4/13.7 |              | Breakdown Torque                         |                     | 146 LB-FT                 |            |            |
| R.P.M.                 |  | 1180//980            |              | Pull-up Torque                           |                     | 53.6 LB-FT                |            |            |
| Hz                     |  | 60//50               | Phase        | 3                                        | Locked-rotor Torque |                           | 73.6 LB-FT |            |
| NEMA Design Code       |  | B                    |              | KVA Code                                 | J                   | Starting Current          |            | 95.3 A     |
| Service Factor (S.F.)  |  | 1                    |              | No-load Current                          |                     | 7.9 A                     |            |            |
| NEMA Nom. Eff.         |  | 91                   | Power Factor |                                          | 70                  | Line-line Res. @ 25°C     |            | 0.66 Ω     |
| Rating - Duty          |  | 40C                  |              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 45°C       |
|                        |  |                      |              |                                          |                     | Locked-rotor Power Factor |            | 24         |
|                        |  |                      |              |                                          |                     | Rotor inertia             |            | 4.5 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 32   | 52   | 63   | 70   | 72   | 73   |
| Efficiency      | 83.7 | 89.8 | 91.4 | 91.6 | 91.1 | 90.3 |
| Speed           | 1196 | 1191 | 1186 | 1182 | 1176 | 1169 |
| Line amperes    | 8.74 | 10.1 | 12.2 | 14.7 | 17.7 | 21   |

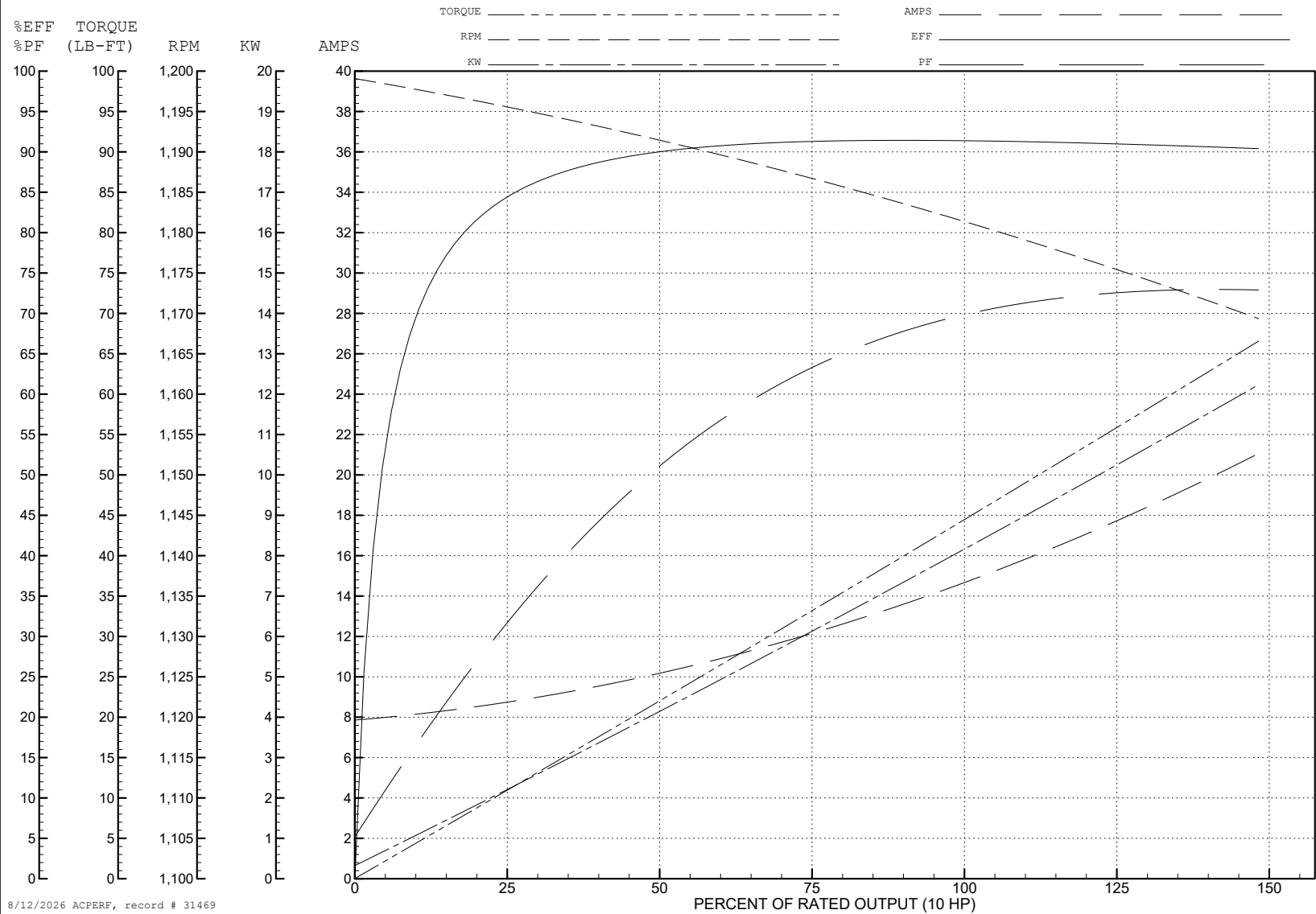
ABB Motors and Mechanical Inc.

WINDING # 09WGZ383

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1182 RPM 460 V 0956M

TORQUES (LB-FT): PO=146 PU=53.6 LR=73.6 LRA=95.3



**AC Induction Motor Performance Data**

Record # 31470

Typical performance - not guaranteed values

| Winding: 09WGZ383-R004 |  |                      | Type: 0956M |                                          | Enclosure: XPFC |                |
|------------------------|--|----------------------|-------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |  |                      |             | 380 V, 50 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |  | 10//7.5              |             | Full Load Torque                         |                 | 40 LB-FT       |
| Volts                  |  | 230/460//190/380     |             | Start Configuration                      |                 | direct on line |
| Full Load Amps         |  | 29.2/14.6//27.4/13.7 |             | Breakdown Torque                         |                 | 141 LB-FT      |
| R.P.M.                 |  | 1180//980            |             | Pull-up Torque                           |                 | 56.4 LB-FT     |
| Hz                     |  | 60//50 Phase         |             | Locked-rotor Torque                      |                 | 77.5 LB-FT     |
| NEMA Design Code       |  | B KVA Code           |             | Starting Current                         |                 | 93.4 A         |
| Service Factor (S.F.)  |  | 1                    |             | No-load Current                          |                 | 7.77 A         |
| NEMA Nom. Eff.         |  | 91 Power Factor      |             | Line-line Res. @ 25°C                    |                 | 0.66 Ω         |
| Rating - Duty          |  | 40C AMB-CONT         |             | Temp. Rise @ Rated Load                  |                 | 40°C           |
| S.F. Amps              |  |                      |             | Temp. Rise @ S.F. Load                   |                 | 48°C           |
|                        |  |                      |             | Locked-rotor Power Factor                |                 | 27             |
|                        |  |                      |             | Rotor inertia                            |                 | 4.5 LB-FT2     |

**Load Characteristics 380 V, 50 Hz, 7.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 31   | 50   | 61   | 68   | 71   | 73   |
| Efficiency      | 82.1 | 88.8 | 90.4 | 90.8 | 90.4 | 89.5 |
| Speed           | 996  | 992  | 987  | 984  | 978  | 972  |
| Line amperes    | 8.54 | 9.72 | 11.6 | 13.7 | 16.4 | 19.3 |

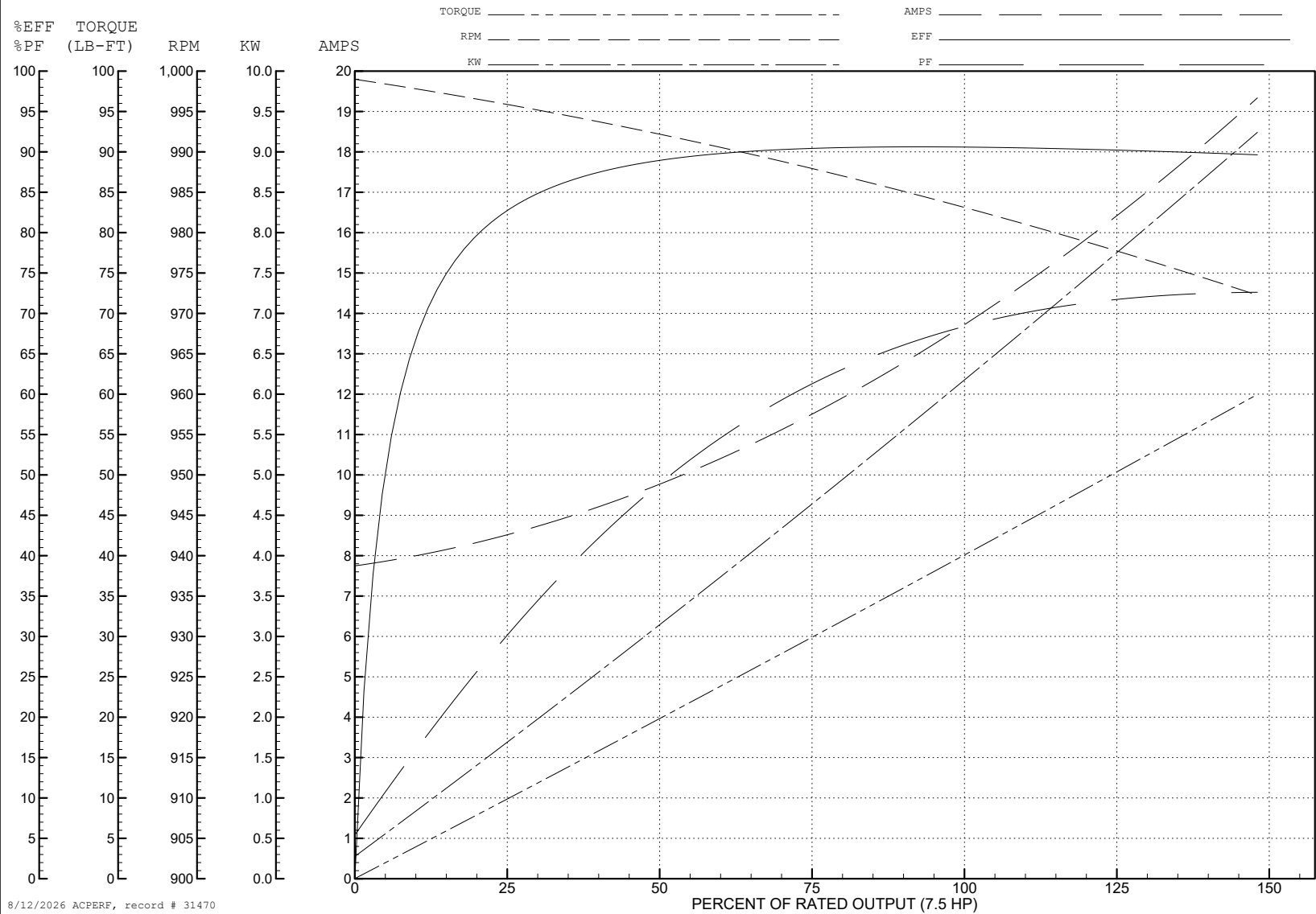
ABB Motors and Mechanical Inc.

WINDING # 09WGZ383

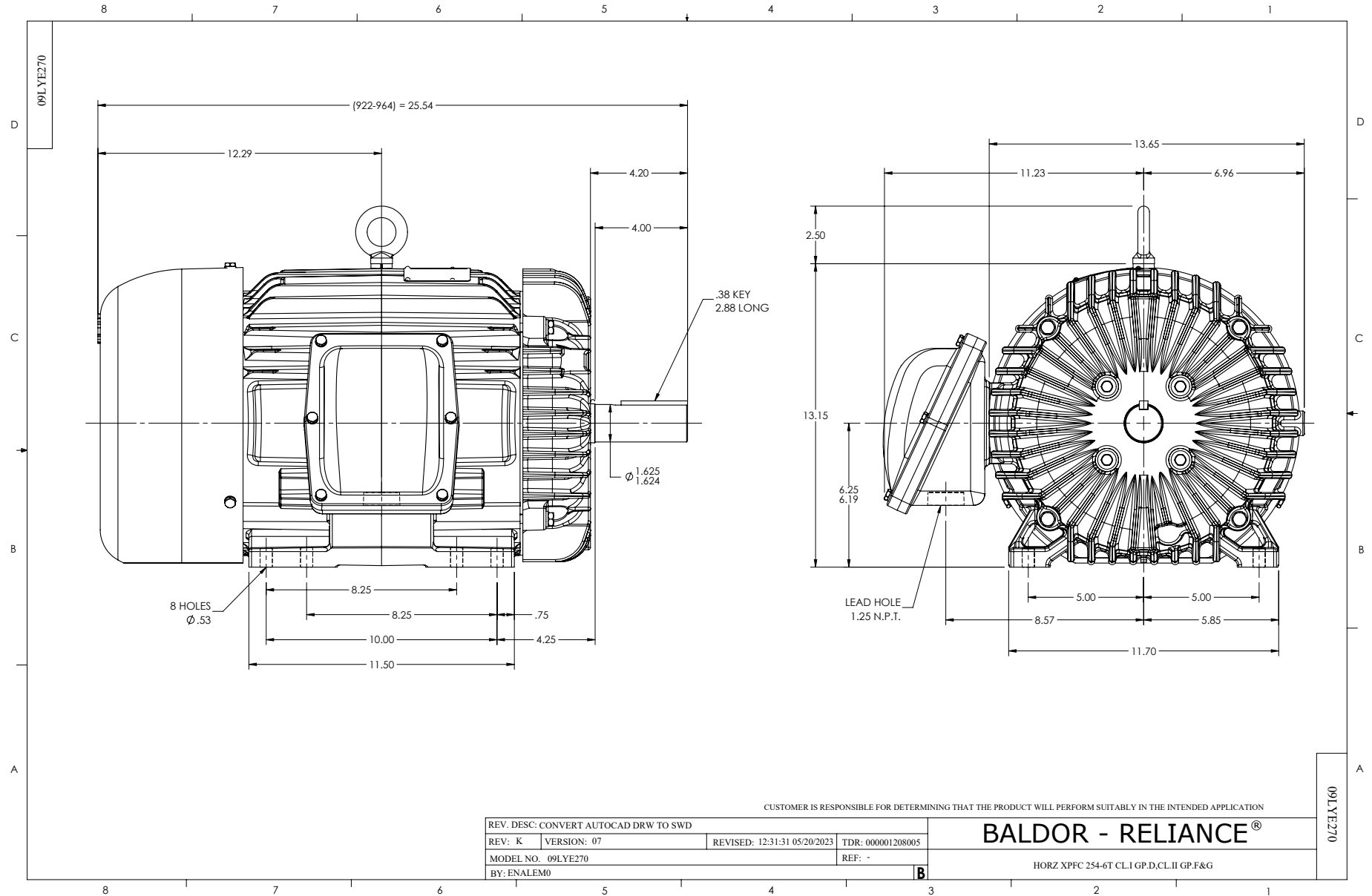
Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 984 RPM 380 V 0956M

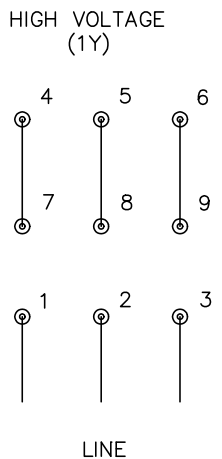
TORQUES (LB-FT): PO=141 PU=56.4 LR=77.5 LRA=93.4



8/12/2026 ACPERF, record # 31470



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