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# Customer information packet

## CPX25246T

60M 4P XPFC HOR 256T TSTATS CP FEAT INV

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

## Specifications

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                 |
| Frame                          | 256TY                                                                                |
| Frame Material                 | Iron                                                                                 |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                 |
| Haz Area Class and Group       | CLI GP C,D; CLII GP E,F,G                                                            |
| Haz Area Division              | Division I                                                                           |
| Motor Letter Type              | Three Phase                                                                          |
| Output @ Frequency             | 20.000 HP @ 60 HZ<br>15.000 HP @ 50 HZ                                               |
| Phase                          | 3                                                                                    |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                                     |
| Voltage @ Frequency            | 190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ<br>460.0 V @ 60 HZ             |
| Agency Approvals               | CSA EEV<br>UL                                                                        |
| 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    | 6                                                                                    |
| Current @ Voltage              | 22.000 A @ 380.0 V<br>24.000 A @ 460.0 V<br>44.000 A @ 190.0 V<br>48.000 A @ 230.0 V |
| Design Code                    | A                                                                                    |
| Drip Cover                     | No Drip Cover                                                                        |
| Duty Rating                    | CONT                                                                                 |

## Part detail

|              |            |
|--------------|------------|
| Revision     | R          |
| Type         | AC         |
| Mech. spec.  | 09M363     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT459   |
| Layout       | 09LYM363   |
| Eff. date    | 03-28-2025 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#10       |
| Proprietary  | False      |
| Created date | 02-12-2019 |

|                               |                           |
|-------------------------------|---------------------------|
| Efficiency @ 100% Load        | 93.0 %                    |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Enclosure Modification        | Severe Duty Features      |
| Feedback Device               | NO FEEDBACK               |
| Front Shaft Indicator         | None                      |
| Haz Area Temp Code            | T3C                       |
| Heater Indicator              | No Heater                 |
| High Voltage Full Load Amps   | 22.0 a                    |
| Insulation Class              | F                         |
| Inverter Code                 | Inverter Duty             |
| IP Rating                     | IP55                      |
| KVA Code                      | J                         |
| Lifting Lugs                  | Standard Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing            |
| Max Speed                     | 2700 rpm                  |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Motor Type                    | X0960M                    |
| Mounting Arrangement          | F1                        |
| Number of Poles               | 4                         |
| Overall Length                | 25.75 IN                  |
| Power Factor                  | 83                        |
| Product Family                | Hazardous Location Motor  |
| Pulley End Bearing Type       | Ball                      |
| Pulley Face Code              | Standard                  |
| Pulley Shaft Indicator        | Standard                  |
| Rodent Screen                 | None                      |
| RoHS Status                   | ROHS NON-COMPLIANT        |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 1.625 IN                  |
| Shaft Ground Indicator        | No Shaft Grounding        |
| Shaft Rotation                | Reversible                |
| Shaft Slinger Indicator       | Shaft Slinger             |

|                            |                            |
|----------------------------|----------------------------|
| Speed                      | 1470 rpm<br>1770 rpm       |
| Speed Code                 | Single Speed               |
| Starting Method            | Direct on line             |
| Thermal Device - Bearing   | None                       |
| Thermal Device - Winding   | Normally Closed Thermostat |
| Vibration Sensor Indicator | No Vibration Sensor        |
| Winding Thermal 1          | None                       |
| Winding Thermal 2          | None                       |

## Nameplate

| NP2033XPSLEV |                            |        |   |              |                     |                      |      |         |          |  |    |  |
|--------------|----------------------------|--------|---|--------------|---------------------|----------------------|------|---------|----------|--|----|--|
| NO.          |                            |        |   |              |                     | CC                   | 010A |         |          |  |    |  |
| S/N          |                            |        |   |              |                     | TEMP CODE            |      |         | T3C      |  |    |  |
| SPEC.        | 09M363T459G1               |        |   |              |                     | INV.TYPE             |      | PWM     |          |  |    |  |
| CAT.NO.      | CPX25246T                  |        |   |              |                     | C HP FR              | 60   | C HP TO | 90       |  |    |  |
| HP           | 20//15                     |        |   |              |                     | CT HZ FROM           |      | 6       | CT HZ TO |  | 60 |  |
| VOLTS        | 230/460//190/380           |        |   |              |                     | VT HZ FROM           |      | 6       | VT HZ TO |  | 60 |  |
| AMPS         | 48/24//44/22               |        |   |              | MAG CUR             | 20.8/10.4//20.4/10.2 |      |         |          |  |    |  |
| RPM          | 1770//1470                 |        |   |              | MX RPM              | 2700                 |      |         |          |  |    |  |
| HZ           | 60//50                     | PH     | 3 | CL           | F                   | NOM.EFF.             | 93   |         |          |  |    |  |
| SER.F.       | 1.00                       | DES    | A | SL HZ        | 1                   | WK2                  | 2.62 |         |          |  |    |  |
| FRAME        | 256TY                      | RATING |   | 40C AMB-CONT |                     |                      |      |         |          |  |    |  |
| BLANK        | 55C AMB AT 1.0SF, 60C RISE |        |   |              |                     |                      |      |         |          |  |    |  |
|              | 1.15SF ON SINEWAVE         |        |   |              | NEMA MG-1 PT.5,IP55 |                      |      |         |          |  |    |  |
|              |                            |        |   |              |                     |                      |      |         |          |  |    |  |

**AC Induction Motor Performance Data**

Record # 68068

Typical performance - not guaranteed values

| Winding: 09WGT459-R009 |    |              |              | Type: 0960M                              |                       | Enclosure: XPFC |           |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|-----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                 |           |
| Rated Output (HP)      |    | 20           |              | Full Load Torque                         |                       | 59.27 LB-FT     |           |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |           |
| Full Load Amps         |    | 48/24        |              | Breakdown Torque                         |                       | 232 LB-FT       |           |
| R.P.M.                 |    | 1770         |              | Pull-up Torque                           |                       | 126 LB-FT       |           |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 141 LB-FT       |           |
| NEMA Design Code       |    | A            | KVA Code     | J                                        | Starting Current      |                 | 198 A     |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                       | 10.4 A          |           |
| NEMA Nom. Eff.         |    | 93           | Power Factor | 83                                       | Line-line Res. @ 25°C |                 | 0.33814 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 58°C            |           |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 26.5            |           |

**Load Characteristics 460 V, 60 Hz, 20 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    |
|-----------------|--------|--------|--------|--------|--------|--------|
| Power Factor    | 45     | 67     | 78     | 83     | 86     | 87     |
| Efficiency      | 89.2   | 93     | 93.7   | 93.6   | 93.1   | 92.4   |
| Speed           | 1793.2 | 1786.4 | 1779.1 | 1771.9 | 1763.7 | 1755.3 |
| Line amperes    | 11.8   | 15     | 19.2   | 24     | 29.3   | 34.9   |

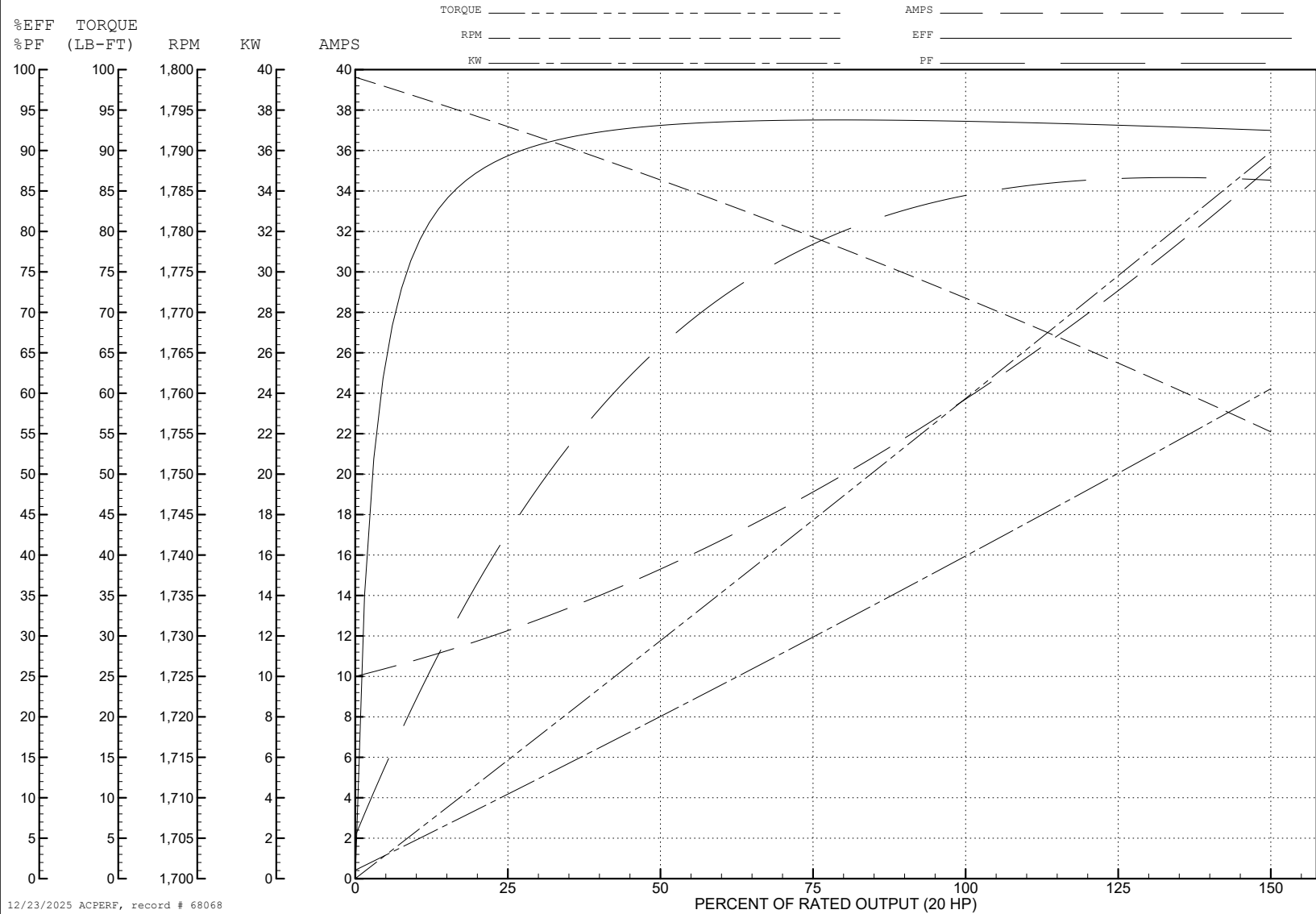
ABB Motors and Mechanical Inc.

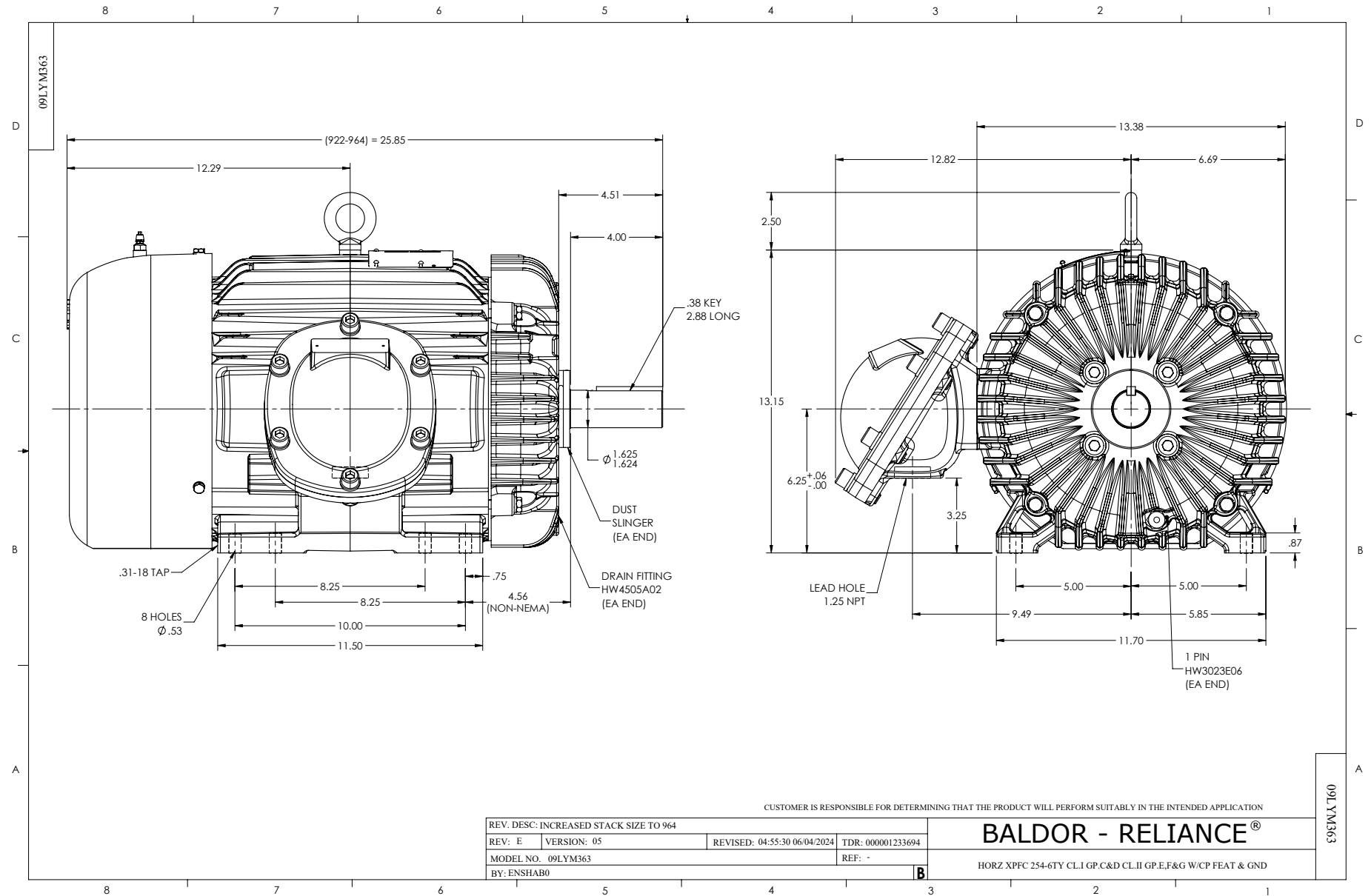
WINDING # 09WGT459

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1770 RPM 460 V 0960M

TORQUES (LB-FT): PO=232 PU=126 LR=141 LRA=198





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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