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# Customer information packet

## CPX25766T

7.5HP, 1180//980RPM, 3PH, 60HZ, 254TY, XPFC, F

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

Division - Division I

## Specifications

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                                      |
| Frame                          | 254TY                                                                                                     |
| Frame Material                 | Iron                                                                                                      |
| Frequency                      | 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             | 5.000 HP @ 50 HZ<br>7.500 HP @ 60 HZ                                                                      |
| Phase                          | 3                                                                                                         |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                                                                          |
| Voltage @ Frequency            | 380.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ<br>190.0 V @ 50 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              | 9.600 A @ 380.0 V<br>23.000 A @ 208.0 V<br>22.000 A @ 230.0 V<br>19.200 A @ 190.0 V<br>11.000 A @ 460.0 V |
| Design Code                    | A                                                                                                         |
| Drip Cover                     | No Drip Cover                                                                                             |
| Duty Rating                    | CONT                                                                                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | K          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT118   |
| Layout       | 09LYM363   |
| Eff. date    | 05-02-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 04-25-2019 |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 91.0 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Enclosure Modification        | Severe Duty Features       |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 9.6 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                     | 1800 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0954M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 6                          |
| Overall Length                | 25.75 IN                   |
| Power Factor                  | 70                         |
| Product Family                | Chemical Process Features  |
| Pulley Face Code              | 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                 |
| Speed                         | 1180 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.        | 09-0000-1357                |        |   |              |   |                     | INV.TYPE   |      | PWM     |          |  |    |  |
| CAT.NO.      | CPX25766T                   |        |   |              |   |                     | C HP FR    | 60   | C HP TO | 90       |  |    |  |
| HP           | 7.5//5                      |        |   |              |   |                     | CT HZ FROM |      | 6       | CT HZ TO |  | 60 |  |
| VOLTS        | 230/460//190/380            |        |   |              |   |                     | VT HZ FROM |      | 6       | VT HZ TO |  | 60 |  |
| AMPS         | 22/11//19.2/9.6             |        |   |              |   | MAG CUR             |            |      |         |          |  |    |  |
| RPM          | 1180//980                   |        |   |              |   | MX RPM              | 1800       |      |         |          |  |    |  |
| HZ           | 60//50                      | PH     | 3 | CL           | F | NOM.EFF.            | 91         |      |         |          |  |    |  |
| SER.F.       | 1.00                        | DES    | A | SL HZ        | 1 | WK2                 | 4.34       |      |         |          |  |    |  |
| FRAME        | 254TY                       | RATING |   | 40C AMB-CONT |   |                     |            |      |         |          |  |    |  |
| BLANK        | 55C AMB @ 1.00 SF, 60C RISE |        |   |              |   |                     |            |      |         |          |  |    |  |
|              | 1.15SF ON SINEWAVE          |        |   |              |   | NEMA MG-1 PT.5,IP55 |            |      |         |          |  |    |  |
|              |                             |        |   |              |   |                     |            |      |         |          |  |    |  |

**AC Induction Motor Performance Data**

Record # 57230

Typical performance - not guaranteed values

| Winding: 09WGT118-R011 |    |              |              | Type: 0954M                              |                       | Enclosure: XPFC |         |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|---------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                 |         |
| Rated Output (HP)      |    | 7.5          |              | Full Load Torque                         |                       | 33.3 LB-FT      |         |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |         |
| Full Load Amps         |    | 22/11        |              | Breakdown Torque                         |                       | 106 LB-FT       |         |
| R.P.M.                 |    | 1180         |              | Pull-up Torque                           |                       | 41.4 LB-FT      |         |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 62.8 LB-FT      |         |
| NEMA Design Code       |    | A            | KVA Code     | J                                        | Starting Current      |                 | 75.7 A  |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                       | 5.97 A          |         |
| NEMA Nom. Eff.         |    | 91           | Power Factor | 70                                       | Line-line Res. @ 25°C |                 | 0.895 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 41°C            |         |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 25.8            |         |
|                        |    |              |              | Rotor inertia                            |                       | 4.34 LB-FT2     |         |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 34   | 53   | 64   | 70   | 74   | 75   |
| Efficiency      | 81.3 | 88   | 89.6 | 89.7 | 89.4 | 88.3 |
| Speed           | 1196 | 1192 | 1187 | 1183 | 1177 | 1171 |
| Line amperes    | 6.46 | 7.57 | 9.19 | 11.2 | 13.3 | 15.9 |

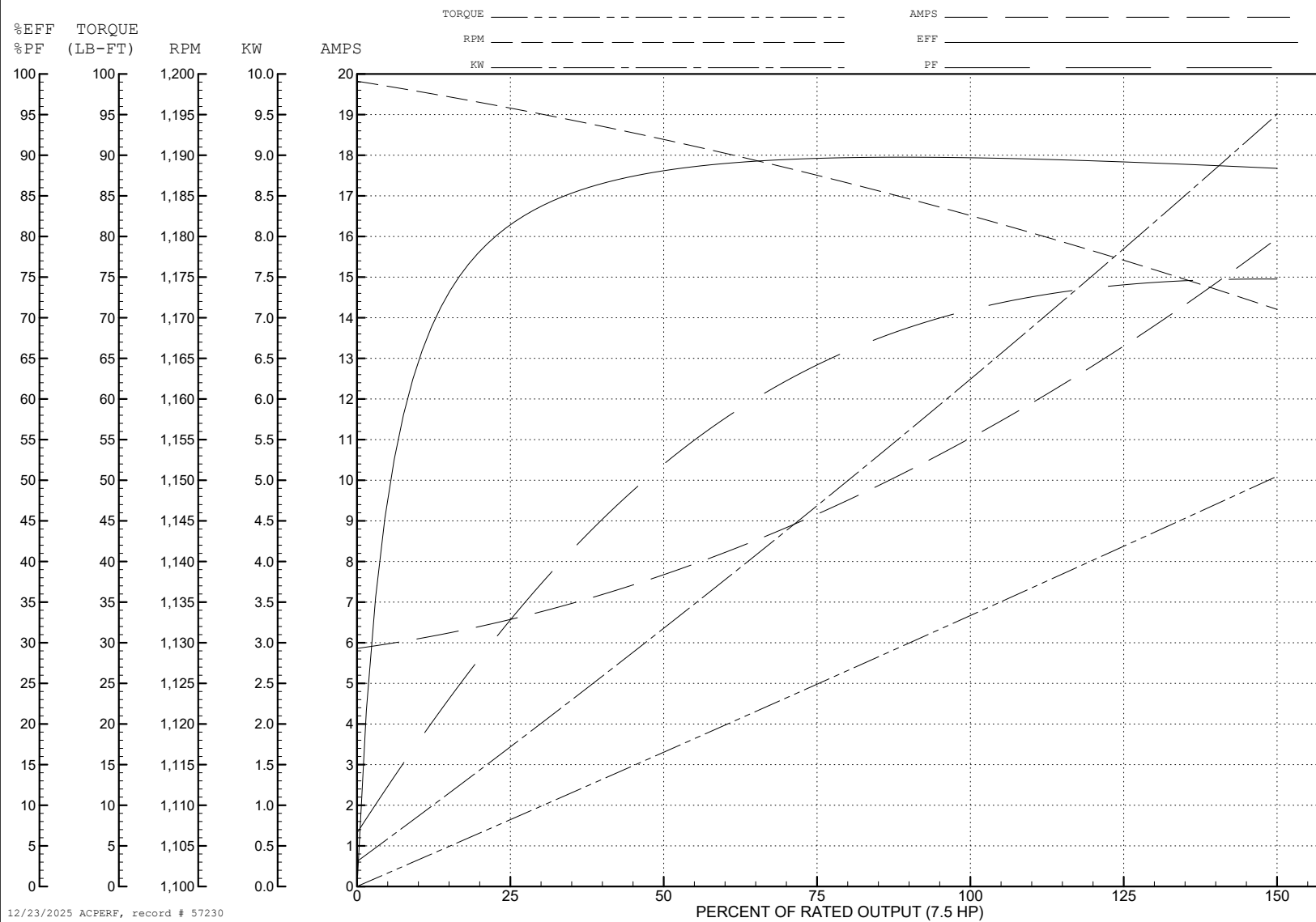
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WINDING # 09WGT118

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

TORQUES (LB-FT): PO=106 PU=41.4 LR=62.8 LRA=75.7



## AC Induction Motor Performance Data

Record # 75705

Typical performance - not guaranteed values

| Winding: 09WGT118-R007 |        |                  | Type: 0954M                              |                           | Enclosure: XPFC       |             |         |
|------------------------|--------|------------------|------------------------------------------|---------------------------|-----------------------|-------------|---------|
| Nameplate Data         |        |                  | 380 V, 50 Hz:<br>High Voltage Connection |                           |                       |             |         |
| Rated Output (HP)      |        | 7.5//5           | Full Load Torque                         |                           | 26.49 LB-FT           |             |         |
| Volts                  |        | 230/460//190/380 | Start Configuration                      |                           | direct on line        |             |         |
| Full Load Amps         |        | 22/11//19.2/9.6  | Breakdown Torque                         |                           | 109 LB-FT             |             |         |
| R.P.M.                 |        | 1180//980        | Pull-up Torque                           |                           | 43.5 LB-FT            |             |         |
| Hz                     | 60//50 | Phase            | 3                                        | Locked-rotor Torque       |                       | 60.46 LB-FT |         |
| NEMA Design Code       |        | A                | KVA Code                                 | J                         | Starting Current      |             | 73.36 A |
| Service Factor (S.F.)  |        | 1                |                                          | No-load Current           |                       | 6 A         |         |
| NEMA Nom. Eff.         |        | 91               | Power Factor                             | 70                        | Line-line Res. @ 25°C |             | 0.895 Ω |
| Rating - Duty          |        | 40C AMB-CONT     |                                          | Temp. Rise @ Rated Load   |                       | 28°C        |         |
| S.F. Amps              |        |                  |                                          | Temp. Rise @ S.F. Load    |                       | 34°C        |         |
|                        |        |                  |                                          | Locked-rotor Power Factor |                       | 28.9        |         |
|                        |        |                  |                                          | Rotor inertia             |                       | 4.34 LB-FT2 |         |

## Load Characteristics 380 V, 50 Hz, 5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125   | 150   |
|-----------------|------|------|------|------|-------|-------|
| Power Factor    | 28   | 46   | 58   | 65   | 71    | 74    |
| Efficiency      | 81.2 | 87.9 | 90.1 | 90.6 | 90.3  | 89.6  |
| Speed           | 997  | 994  | 990  | 987  | 983   | 979   |
| Line amperes    | 6.29 | 7.06 | 8.13 | 9.52 | 11.08 | 12.87 |

ABB Motors and Mechanical Inc.

WINDING # 09WGT118

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 987 RPM 380 V 0954M

TORQUES (LB-FT): PO=109 PU=43.5 LR=60.46 LRA=73.36

