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# Customer information packet

## CXM18342T

3//2HP, 1760//1460RPM, 3PH, 60//50HZ, 182TC

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                                  |
| Frame                          | 182TC                                                                                                 |
| Frame Material                 | Steel                                                                                                 |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                                  |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                                                                                 |
| Haz Area Division              | Division I                                                                                            |
| Motor Letter Type              | Three Phase                                                                                           |
| Output @ Frequency             | 2.000 HP @ 50 HZ<br>3.000 HP @ 60 HZ                                                                  |
| Phase                          | 3                                                                                                     |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                                                      |
| Voltage @ Frequency            | 380.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>460.0 V @ 60 HZ                              |
| Agency Approvals               | CSA EEV<br>UL                                                                                         |
| Ambient Temperature            | 40 °C                                                                                                 |
| Auxillary Box                  | No Auxillary Box                                                                                      |
| Auxillary Box Lead Termination | None                                                                                                  |
| Base Indicator                 | Rigid                                                                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                                                               |
| Blower                         | None                                                                                                  |
| Constant Torque Speed Range    | 6                                                                                                     |
| Current @ Voltage              | 9.000 A @ 208.0 V<br>8.400 A @ 230.0 V<br>7.200 A @ 190.0 V<br>4.200 A @ 460.0 V<br>3.600 A @ 380.0 V |
| Design Code                    | B                                                                                                     |
| Drip Cover                     | No Drip Cover                                                                                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | -          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS266   |
| Layout       | 36LYK919   |
| Eff. date    | 02-23-2021 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 02-16-2021 |

|                               |                            |
|-------------------------------|----------------------------|
| Duty Rating                   | CONT                       |
| Efficiency @ 100% Load        | 89.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 3.6 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | K                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 2700 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3632M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 18.86 IN                   |
| Power Factor                  | 75                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | C-Face                     |
| Rodent Screen                 | None                       |
| Service Factor                | 1.15                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 1760 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

| NP0887XPSLEV |                        |        |   |              |         |            |      |          |    |  |  |
|--------------|------------------------|--------|---|--------------|---------|------------|------|----------|----|--|--|
| NO.          |                        |        |   |              |         | CC         | 010A |          |    |  |  |
| S/N          |                        |        |   |              |         | TEMP CODE  |      | T3C      |    |  |  |
| SPEC.        | 36-0000-0465           |        |   |              |         | INV.TYPE   |      | PWM      |    |  |  |
| CAT.NO.      | CXM18342T              |        |   |              |         | C HP FR    | 60   | C HP TO  | 90 |  |  |
| HP           | 3//2                   |        |   |              |         | CT HZ FROM | 6    | CT HZ TO | 60 |  |  |
| VOLTS        | 230/460//190/380       |        |   |              |         | VT HZ FROM | 6    | VT HZ TO | 60 |  |  |
| AMPS         | 8.4/4.2//7.2/3.6       |        |   |              | MAG CUR | 4.6/2.3    |      |          |    |  |  |
| RPM          | 1760//1460             |        |   |              | MX RPM  | 2700       |      |          |    |  |  |
| HZ           | 60//50                 | PH     | 3 | CL           | F       | NOM.EFF.   | 89.5 |          |    |  |  |
| SER.F.       | 1.00                   | DES    | B | SL HZ        | 1.4     | WK2        | 0.3  |          |    |  |  |
| FRAME        | 182TC                  | RATING |   | 40C AMB-CONT |         |            |      |          |    |  |  |
|              | NEMA MG-1 PART 5, IP54 |        |   |              |         |            |      |          |    |  |  |
|              | 1.15 SF ON SINE WAVE   |        |   |              |         |            |      |          |    |  |  |
|              |                        |        |   |              |         |            |      |          |    |  |  |

**AC Induction Motor Performance Data**

Record # 76180

Typical performance - not guaranteed values

| Winding: 36WGS266-R015 |    |         |   | Type: 3632M                              |    | Enclosure: XPFC          |                       |        |
|------------------------|----|---------|---|------------------------------------------|----|--------------------------|-----------------------|--------|
| Nameplate Data         |    |         |   | 460 V, 60 Hz:<br>High Voltage Connection |    |                          |                       |        |
| Rated Output (HP)      |    | 3       |   | Full Load Torque                         |    | 8.8 LB-FT                |                       |        |
| Volts                  |    | 230/460 |   | Start Configuration                      |    | direct on line           |                       |        |
| Full Load Amps         |    | 8.4/4.2 |   | Breakdown Torque                         |    | 37.6 LB-FT               |                       |        |
| R.P.M.                 |    | 1760    |   | Pull-up Torque                           |    | 15.2 LB-FT               |                       |        |
| Hz                     | 60 | Phase   | 3 | Locked-rotor Torque                      |    | 21.7 LB-FT               |                       |        |
| NEMA Design Code       |    | B       |   | KVA Code                                 | K  |                          | Starting Current      | 32.7 A |
| Service Factor (S.F.)  |    | 1       |   | No-load Current                          |    | 2.3 A                    |                       |        |
| NEMA Nom. Eff.         |    | 89.5    |   | Power Factor                             | 75 |                          | Line-line Res. @ 25°C | 3.81 Ω |
| Rating - Duty          |    | 40C     |   | AMB-CONT                                 |    | Temp. Rise @ Rated Load  |                       | 44°C   |
|                        |    |         |   | Locked-rotor Power Factor                |    | 42.2                     |                       |        |
|                        |    |         |   | Rotor inertia                            |    | 0.298 LB-FT <sup>2</sup> |                       |        |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 75   | 80   | 82   |
| Efficiency      | 81   | 87.7 | 89.6 | 89.8 | 89.6 | 88.1 |
| Speed           | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 |
| Line amperes    | 2.47 | 2.85 | 3.43 | 4.09 | 4.89 | 5.78 |

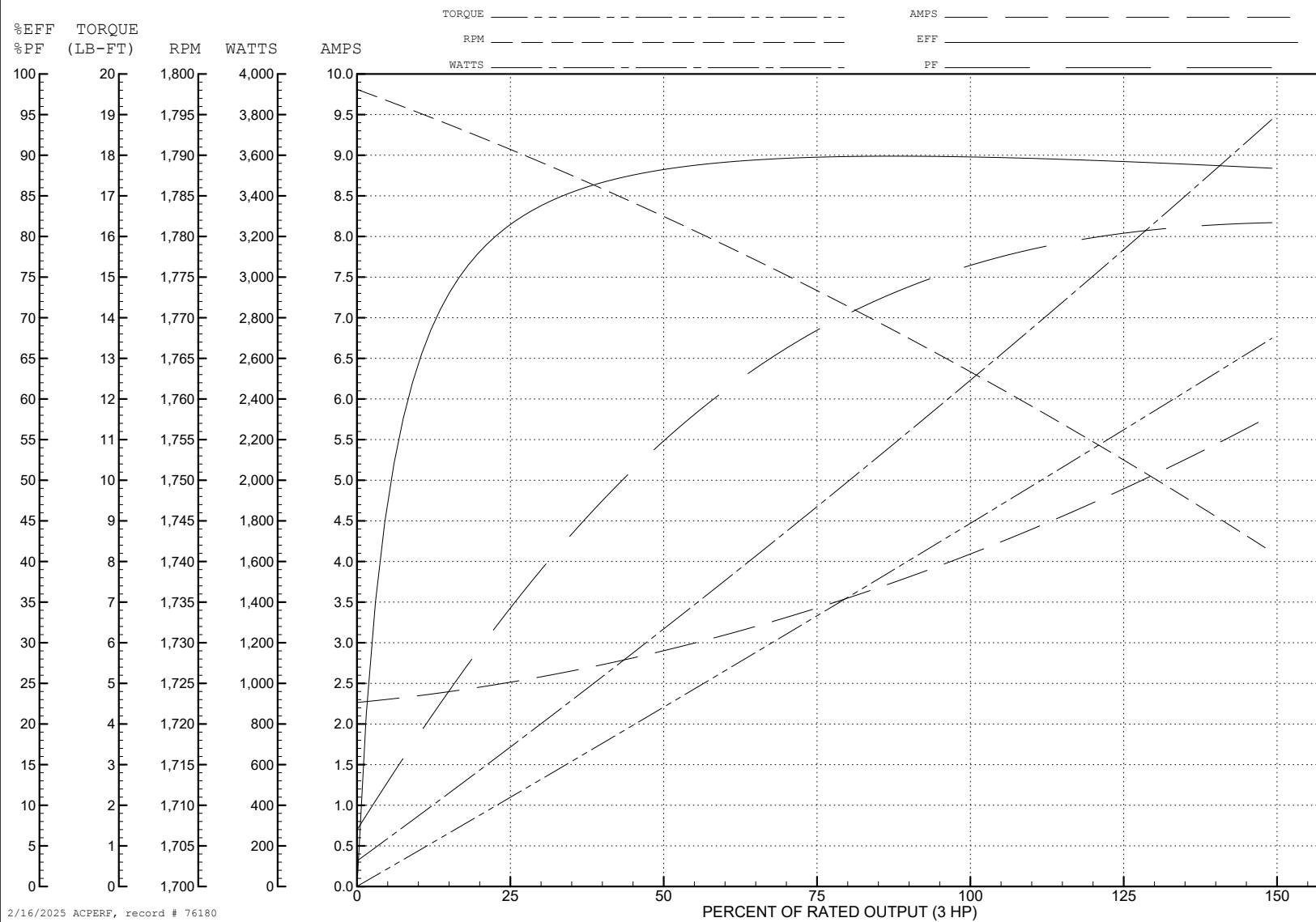
ABB Motors and Mechanical Inc.

WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7



**AC Induction Motor Performance Data**

Record # 86692

Typical performance - not guaranteed values

| Winding: 36WGS266-R004 |        |                  |              | Type: 3632M                              |                       | Enclosure: TEFC  |              |        |
|------------------------|--------|------------------|--------------|------------------------------------------|-----------------------|------------------|--------------|--------|
| Nameplate Data         |        |                  |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                  |              |        |
| Rated Output (HP)      |        | 3//2             |              | Full Load Torque                         |                       | 8.8 LB-FT        |              |        |
| Volts                  |        | 230/460//190/380 |              | Start Configuration                      |                       | direct on line   |              |        |
| Full Load Amps         |        | 8.4/4.2//7.2/3.6 |              | Breakdown Torque                         |                       | 37.6 LB-FT       |              |        |
| R.P.M.                 |        | 1760//1460       |              | Pull-up Torque                           |                       | 15.2 LB-FT       |              |        |
| Hz                     | 60//50 | Phase            | 3            | Locked-rotor Torque                      |                       | 21.7 LB-FT       |              |        |
| NEMA Design Code       |        | B                |              | KVA Code                                 | K                     | Starting Current |              | 32.7 A |
| Service Factor (S.F.)  |        | 1                |              | No-load Current                          |                       |                  |              | 2.3 A  |
| NEMA Nom. Eff.         |        | 89.5             | Power Factor | 75                                       | Line-line Res. @ 25°C |                  |              | 3.81 Ω |
| Rating - Duty          |        | 40C AMB-CONT     |              | Temp. Rise @ Rated Load                  |                       |                  | 44°C         |        |
|                        |        |                  |              | Locked-rotor Power Factor                |                       |                  | 42.2         |        |
|                        |        |                  |              | Rotor inertia                            |                       |                  | 0.298 lb-ft² |        |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 75   | 80   | 82   |
| Efficiency      | 81   | 87.7 | 89.6 | 89.8 | 89.6 | 88.1 |
| Speed           | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 |
| Line amperes    | 2.47 | 2.85 | 3.43 | 4.09 | 4.89 | 5.78 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7

