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# Customer information packet

## CDRX181564T

1.5HP, 1170//970RPM, 3PH, 60/50HZ, 182TC, XPF

Class - CLI GP C,D

Division - Division I

## Specifications

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                             |
| Frame                          | 182TC                                                                            |
| Frame Material                 | Iron                                                                             |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                             |
| Haz Area Class and Group       | CLI GP C,D                                                                       |
| Haz Area Division              | Division I                                                                       |
| Motor Letter Type              | Three Phase                                                                      |
| Output @ Frequency             | 1.500 HP @ 60 HZ<br>1.000 HP @ 50 HZ                                             |
| Phase                          | 3                                                                                |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                                                 |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ         |
| Agency Approvals               | UL<br>CSA EEV                                                                    |
| 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              | 2.297 A @ 380.0 V<br>2.500 A @ 460.0 V<br>4.400 A @ 190.0 V<br>5.000 A @ 230.0 V |
| Design Code                    | B                                                                                |
| Drip Cover                     | No Drip Cover                                                                    |
| Duty Rating                    | CONT                                                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGW969   |
| Layout       | 06LYH515   |
| Eff. date    | 05-23-2023 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 06-21-2019 |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 87.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 2.3 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | K                          |
| Lifting Lugs                  | Standard Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 1800 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0630M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 6                          |
| Overall Length                | 18.31 IN                   |
| Power Factor                  | 65                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | C-Face                     |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS NON-COMPLIANT         |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 1170 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

| NP1401XPSLEV |                  |        |   |              |                     |            |       |          |    |  |  |
|--------------|------------------|--------|---|--------------|---------------------|------------|-------|----------|----|--|--|
| NO.          |                  |        |   |              |                     | CC         | 010A  |          |    |  |  |
| S/N          |                  |        |   |              |                     | TEMP CODE  | T3C   |          |    |  |  |
| SPEC.        | 06-0000-0139     |        |   |              |                     | INV.TYPE   | PWM   |          |    |  |  |
| CAT.NO.      | CDRX181564T      |        |   |              |                     | C HP FR    | 60    | C HP TO  | 90 |  |  |
| HP           | 1.5//1           |        |   |              |                     | CT HZ FROM | 6     | CT HZ TO | 60 |  |  |
| VOLTS        | 230/460//190/380 |        |   |              |                     | VT HZ FROM | 6     | VT HZ TO | 60 |  |  |
| AMPS         | 5/2.5//4.4/2.297 |        |   |              | MAG CUR             | 3/1.5      |       |          |    |  |  |
| RPM          | 1170//970        |        |   |              | MX RPM              | 1800       |       |          |    |  |  |
| HZ           | 60//50           | PH     | 3 | CL           | F                   | NOM.EFF.   | 87.5  |          |    |  |  |
| SER.F.       | 1.00             | DES    | B | SL HZ        | 1.5                 | WK2        | 0.282 |          |    |  |  |
| FRAME        | 182TC            | RATING |   | 40C AMB-CONT |                     |            |       |          |    |  |  |
|              | 55C AMB @ 1.0 SF |        |   |              |                     |            |       |          |    |  |  |
|              | 1.15 SF SINEWAVE |        |   |              | NEMA MG-1 PT 5,IP55 |            |       |          |    |  |  |
|              |                  |        |   |              |                     |            |       |          |    |  |  |

## AC Induction Motor Performance Data

Record # 75917

Typical performance - not guaranteed values

| Winding: 06WGW969-R007 |  |                   | Type: 0630M                            |  | Enclosure: TEFC         |  |
|------------------------|--|-------------------|----------------------------------------|--|-------------------------|--|
| Nameplate Data         |  |                   | 460 V, 60 Hz:<br>High Speed Connection |  |                         |  |
| Rated Output (HP)      |  | 1.5//1            | Full Load Torque                       |  | 6.76 LB-FT              |  |
| Volts                  |  | 230/460//190/380  | Start Configuration                    |  | direct on line          |  |
| Full Load Amps         |  | 5/2.5//4.4/2.2970 | Breakdown Torque                       |  | 23.83 LB-FT             |  |
| R.P.M.                 |  | 1170              | Pull-up Torque                         |  | 12.5 LB-FT              |  |
| Hz                     |  | 60//50            | Phase                                  |  | 3                       |  |
| NEMA Design Code       |  | B                 | KVA Code                               |  | K                       |  |
| Service Factor (S.F.)  |  | 1                 | Starting Current                       |  | 16.19 A                 |  |
| NEMA Nom. Eff.         |  | 87.5              | Power Factor                           |  | 65                      |  |
| Rating - Duty          |  | 40C               | AMB-CONT                               |  | Temp. Rise @ Rated Load |  |
| S.F. Amps              |  |                   | Temp. Rise @ S.F. Load                 |  | 31°C                    |  |
|                        |  |                   | Locked-rotor Power Factor              |  | 30.4                    |  |
|                        |  |                   | Rotor inertia                          |  | 0.282 LB-FT2            |  |

## Load Characteristics 460 V, 60 Hz, 1.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 29   | 45   | 57   | 65   | 70   | 73   |
| Efficiency      | 71.5 | 81.5 | 84.5 | 85.7 | 85.6 | 84.5 |
| Speed           | 1193 | 1186 | 1179 | 1171 | 1163 | 1152 |
| Line amperes    | 1.71 | 1.92 | 2.21 | 2.54 | 2.95 | 3.42 |

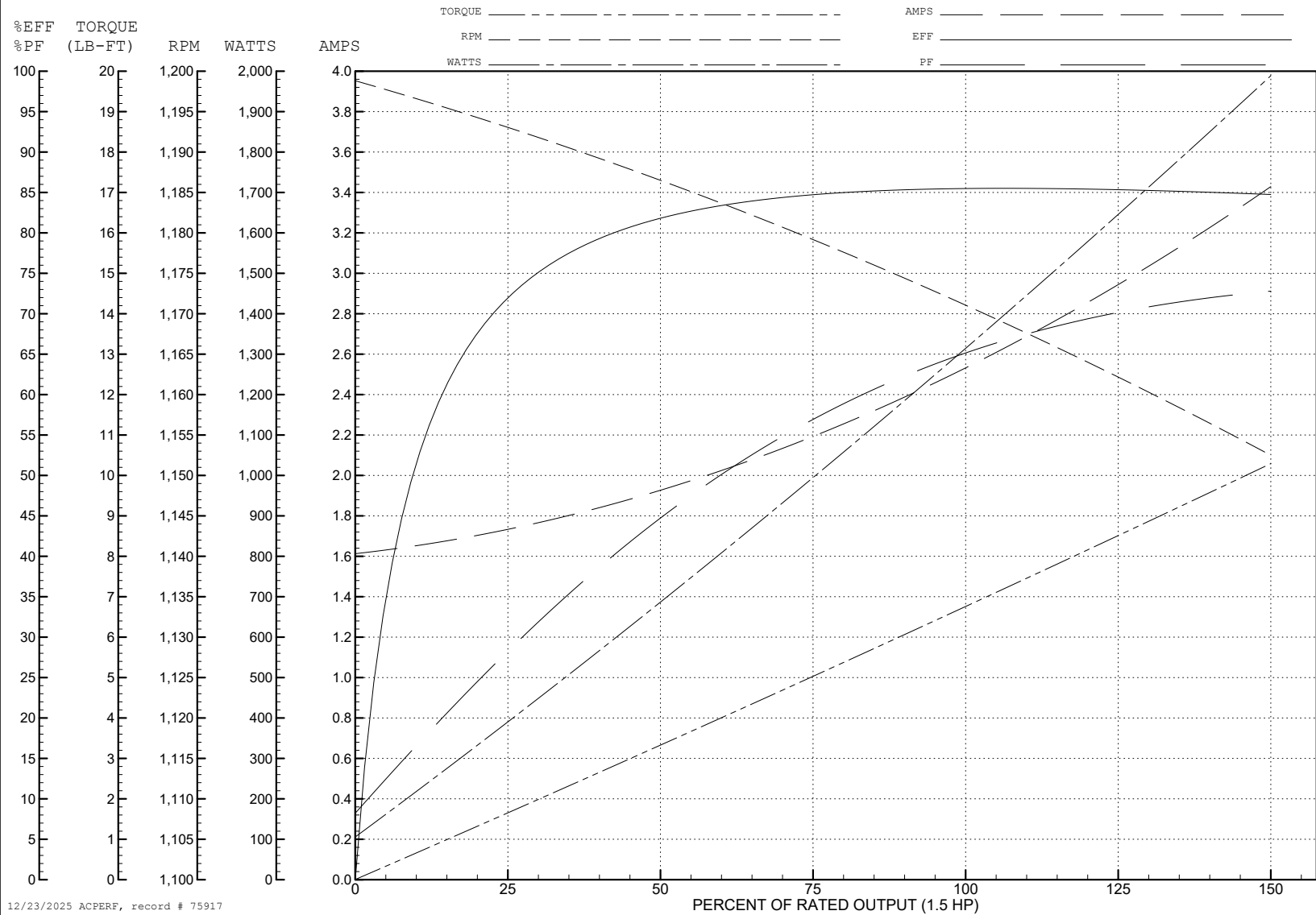
ABB Motors and Mechanical Inc.

WINDING # 06WGW969

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

TORQUES (LB-FT): PO=23.83 PU=12.5 LR=15.8 LRA=16.19



12/23/2025 ACPERF, record # 75917

**AC Induction Motor Performance Data**

Record # 75918

Typical performance - not guaranteed values

| Winding: 06WGW969-R007 |  |                   |  | Type: 0630M                              |  | Enclosure: TEFC |  |
|------------------------|--|-------------------|--|------------------------------------------|--|-----------------|--|
| Nameplate Data         |  |                   |  | 380 V, 50 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |  | 1.5//1            |  | Full Load Torque                         |  | 5.42 LB-FT      |  |
| Volts                  |  | 230/460//190/380  |  | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |  | 5/2.5//4.4/2.2970 |  | Breakdown Torque                         |  | 22.86 LB-FT     |  |
| R.P.M.                 |  | 1170              |  | Pull-up Torque                           |  | 13.14 LB-FT     |  |
| Hz                     |  | 60//50            |  | Phase                                    |  | 3               |  |
| NEMA Design Code       |  | B                 |  | KVA Code                                 |  | K               |  |
| Service Factor (S.F.)  |  | 1                 |  | Starting Current                         |  | 15.76 A         |  |
| NEMA Nom. Eff.         |  | 87.5              |  | Power Factor                             |  | 65              |  |
| Rating - Duty          |  | 40C AMB-CONT      |  | Line-line Res. @ 25°C                    |  | 7.01 Ω          |  |
|                        |  |                   |  | Temp. Rise @ Rated Load                  |  | 21°C            |  |
|                        |  |                   |  | Locked-rotor Power Factor                |  | 34.4            |  |
|                        |  |                   |  | Rotor inertia                            |  | 0.282 LB-FT2    |  |

**Load Characteristics 380 V, 50 Hz, 1 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 25   | 40   | 51   | 60   | 66   | 71   |
| Efficiency      | 68.3 | 79.4 | 83.2 | 84.8 | 84.9 | 84.1 |
| Speed           | 994  | 989  | 983  | 977  | 970  | 962  |
| Line amperes    | 1.66 | 1.81 | 2.01 | 2.24 | 2.54 | 2.87 |

ABB Motors and Mechanical Inc.

WINDING # 06WGW969

Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 1170 RPM 380 V 0630M

TORQUES (LB-FT): PO=22.86 PU=13.14 LR=16.61 LRA=15.76

