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# Customer information packet

## DRX21364T

3HP, 1165//970RPM, 3PH, 60HZ, 213T, XPFC, F1

Class - CLI GP C,D

Division - Division I

## Specifications

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                             |
| Frame                          | 213T                                                                             |
| 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             | 3.000 HP @ 60 HZ<br>2.000 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              | 3.800 A @ 380.0 V<br>4.500 A @ 460.0 V<br>7.600 A @ 190.0 V<br>9.000 A @ 230.0 V |
| Design Code                    | B                                                                                |
| Drip Cover                     | No Drip Cover                                                                    |
| Duty Rating                    | CONT                                                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGX970   |
| Layout       | 07LYJ231   |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 04-01-2019 |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 89.6 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 3.8 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                     | 2700 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0736M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 6                          |
| Overall Length                | 20.03 IN                   |
| Power Factor                  | 72                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS NON-COMPLIANT         |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.375 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 1165 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.        | 07-0000-0057     |        |   |              |                     | INV.TYPE   | PWM   |          |    |  |  |
| CAT.NO.      | DRX21364T        |        |   |              |                     | 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         | 9/4.5//7.6/3.8   |        |   |              | MAG CUR             | 4.8/2.4    |       |          |    |  |  |
| RPM          | 1165//970        |        |   |              | MX RPM              | 2700       |       |          |    |  |  |
| HZ           | 60//50           | PH     | 3 | CL           | F                   | NOM.EFF.   | 89.6  |          |    |  |  |
| SER.F.       | 1.00             | DES    | B | SL HZ        | 1.8                 | WK2        | 0.895 |          |    |  |  |
| FRAME        | 213T             | 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 # 74893

Typical performance - not guaranteed values

| Winding: 07WGX970-R005 |  |                  | Type: 0736M                              |  | Enclosure: TEFC         |                       |             |         |
|------------------------|--|------------------|------------------------------------------|--|-------------------------|-----------------------|-------------|---------|
| Nameplate Data         |  |                  | 380 V, 50 Hz:<br>High Voltage Connection |  |                         |                       |             |         |
| Rated Output (HP)      |  | 3                | Full Load Torque                         |  | 10.88 LB-FT             |                       |             |         |
| Volts                  |  | 230/460//190/380 | Start Configuration                      |  | direct on line          |                       |             |         |
| Full Load Amps         |  | 9/4.5//7.6/3.8   | Breakdown Torque                         |  | 49.79 LB-FT             |                       |             |         |
| R.P.M.                 |  | 1165//970        | Pull-up Torque                           |  | 28.43 LB-FT             |                       |             |         |
| Hz                     |  | 60//50           | Phase                                    |  | 3                       | Locked-rotor Torque   | 34.29 LB-FT |         |
| NEMA Design Code       |  | B                | KVA Code                                 |  | K                       | Starting Current      |             | 31.53 A |
| Service Factor (S.F.)  |  | 1                | No-load Current                          |  | 2.23 A                  |                       |             |         |
| NEMA Nom. Eff.         |  | 89.6             | Power Factor                             |  | 72                      | Line-line Res. @ 25°C |             | 3 Ω     |
| Rating - Duty          |  | 40C              | AMB-CONT                                 |  | Temp. Rise @ Rated Load |                       |             | 27°C    |
| S.F. Amps              |  |                  | Temp. Rise @ S.F. Load                   |  | 32°C                    |                       |             |         |
|                        |  |                  | Locked-rotor Power Factor                |  | 26.9                    |                       |             |         |
|                        |  |                  | Rotor inertia                            |  | 0.895 LB-FT2            |                       |             |         |

## Load Characteristics 380 V, 50 Hz, 2 HP

| % of Rated Load | 25  | 50   | 75   | 100  | 125  | 150  |
|-----------------|-----|------|------|------|------|------|
| Power Factor    | 30  | 48   | 60   | 67   | 72   | 75   |
| Efficiency      | 79  | 86.1 | 88.2 | 88.5 | 88.3 | 86.9 |
| Speed           | 993 | 987  | 980  | 972  | 965  | 955  |
| Line amperes    | 2.4 | 2.75 | 3.24 | 3.82 | 4.46 | 5.22 |

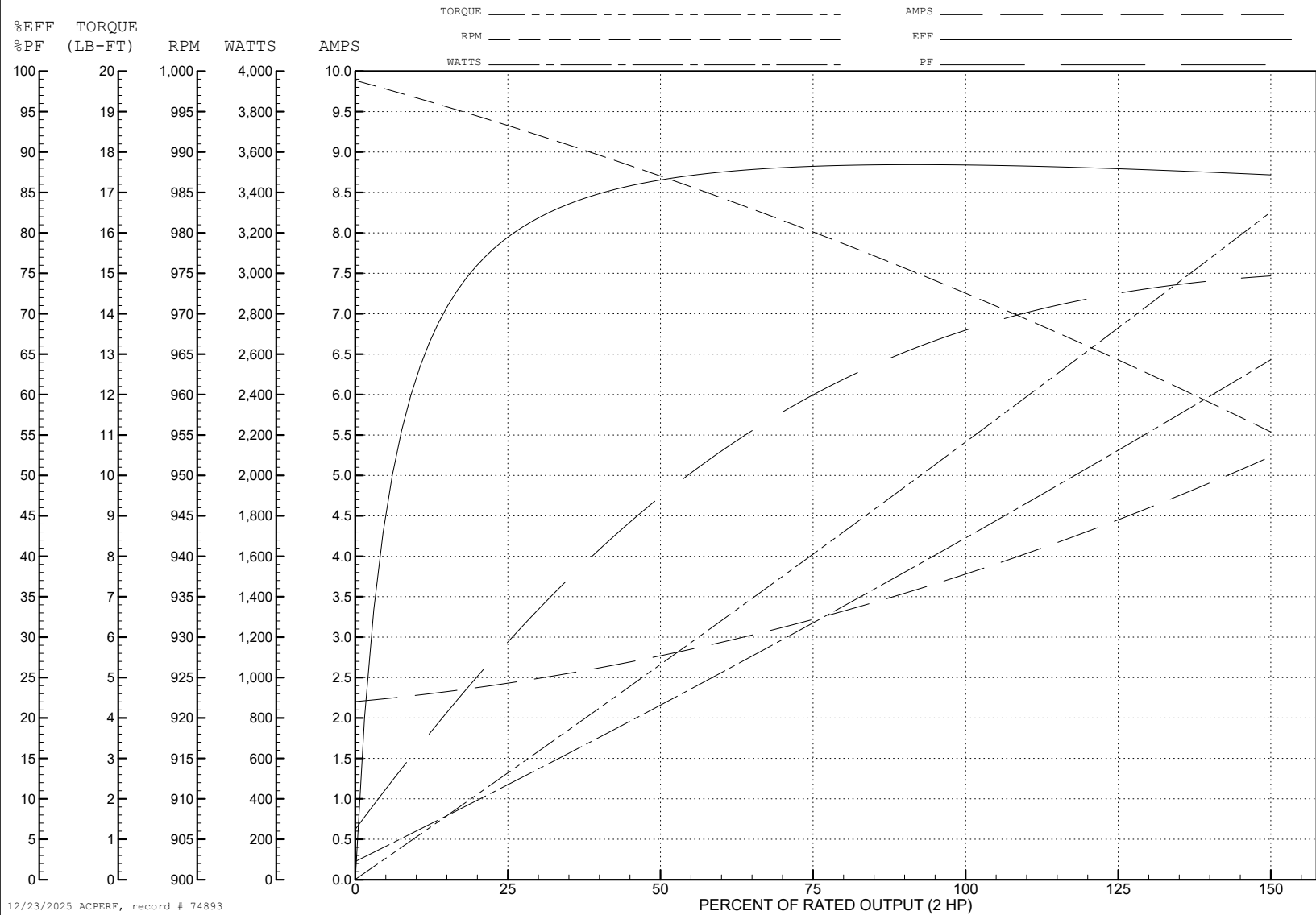
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WINDING # 07WGX970

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 972 RPM 380 V 0736M

TORQUES (LB-FT) : PO=49.79 PU=28.43 LR=34.29 LRA=31.53



## AC Induction Motor Performance Data

Record # 74894

Typical performance - not guaranteed values

| Winding: 07WGX970-R005 |  |                  | Type: 0736M                              |                           | Enclosure: TEFC |                       |             |
|------------------------|--|------------------|------------------------------------------|---------------------------|-----------------|-----------------------|-------------|
| Nameplate Data         |  |                  | 460 V, 60 Hz:<br>High Voltage Connection |                           |                 |                       |             |
| Rated Output (HP)      |  | 3//2             | Full Load Torque                         |                           | 13.61 LB-FT     |                       |             |
| Volts                  |  | 230/460//190/380 | Start Configuration                      |                           | direct on line  |                       |             |
| Full Load Amps         |  | 9/4.5//7.6/3.8   | Breakdown Torque                         |                           | 51.71 LB-FT     |                       |             |
| R.P.M.                 |  | 1165//970        | Pull-up Torque                           |                           | 25.77 LB-FT     |                       |             |
| Hz                     |  | 60//50           | Phase                                    |                           | 3               | Locked-rotor Torque   | 31.08 LB-FT |
| NEMA Design Code       |  | B                | KVA Code                                 |                           | K               | Starting Current      | 32.19 A     |
| Service Factor (S.F.)  |  |                  |                                          |                           | 1               | No-load Current       | 2.26 A      |
| NEMA Nom. Eff.         |  | 89.6             | Power Factor                             |                           | 72              | Line-line Res. @ 25°C | 3 Ω         |
| Rating - Duty          |  | 40C AMB-CONT     |                                          | Temp. Rise @ Rated Load   |                 | 34°C                  |             |
| S.F. Amps              |  |                  |                                          | Temp. Rise @ S.F. Load    |                 | 41°C                  |             |
|                        |  |                  |                                          | Locked-rotor Power Factor |                 | 23.3                  |             |
|                        |  |                  |                                          | Rotor inertia             |                 | 0.895 LB-FT2          |             |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 35   | 54   | 65   | 72   | 75   | 76   |
| Efficiency      | 82.8 | 88.3 | 89.6 | 89.6 | 88.9 | 87.3 |
| Speed           | 1192 | 1184 | 1176 | 1166 | 1156 | 1143 |
| Line amperes    | 2.48 | 2.96 | 3.62 | 4.41 | 5.29 | 6.33 |

ABB Motors and Mechanical Inc.

WINDING # 07WGX970

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1166 RPM 460 V 0736M

TORQUES (LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19

