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# Customer information packet

## XM05162

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 56, 35

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                                  |
| Frame                          | 56                                                                                                    |
| 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             | .750 HP @ 50 HZ<br>1.000 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>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    | 2.2                                                                                                   |
| Current @ Voltage              | 3.500 A @ 208.0 V<br>3.200 A @ 190.0 V<br>3.000 A @ 230.0 V<br>1.600 A @ 380.0 V<br>1.500 A @ 460.0 V |
| Design Code                    | B                                                                                                     |
| Drip Cover                     | No Drip Cover                                                                                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35E356     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG019   |
| Layout       | 35LYE356   |
| Eff. date    | 07-10-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 09-09-2022 |

|                               |                           |
|-------------------------------|---------------------------|
| Duty Rating                   | CONT                      |
| Efficiency @ 100% Load        | 82.5 %                    |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device               | NO FEEDBACK               |
| Front Shaft Indicator         | None                      |
| Haz Area Temp Code            | T3C                       |
| Heater Indicator              | No Heater                 |
| High Voltage Full Load Amps   | 1.5 a                     |
| Insulation Class              | F                         |
| Inverter Code                 | Inverter Ready            |
| KVA Code                      | J                         |
| Lifting Lugs                  | No Lifting Lugs           |
| Locked Bearing Indicator      | No Locked Bearing         |
| Max Speed                     | 1800 rpm                  |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Motor Type                    | X3526M                    |
| Mounting Arrangement          | F1                        |
| Number of Poles               | 6                         |
| Overall Length                | 15.17 IN                  |
| Power Factor                  | 67                        |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Ball                      |
| Pulley Face Code              | Standard                  |
| Pulley Shaft Indicator        | Standard                  |
| Rodent Screen                 | None                      |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 0.625 IN                  |
| Shaft Ground Indicator        | No Shaft Grounding        |
| Shaft Rotation                | Reversible                |
| Shaft Slinger Indicator       | No Slinger                |
| Speed                         | 1155 rpm<br>970 rpm       |

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

## Nameplate

| NP0887XPSLEV |                             |        |   |              |                  |            |       |      |          |  |    |
|--------------|-----------------------------|--------|---|--------------|------------------|------------|-------|------|----------|--|----|
| NO.          |                             |        |   |              |                  | CC         | 010A  |      |          |  |    |
| S/N          |                             |        |   |              |                  | TEMP CODE  |       | T3C  |          |  |    |
| SPEC.        | 35E356G019G1                |        |   |              |                  | INV.TYPE   |       | PWM  |          |  |    |
| CAT.NO.      | XM05162                     |        |   |              |                  | C HP FR    |       | 60   | C HP TO  |  | 90 |
| HP           | 1//.75                      |        |   |              |                  | CT HZ FROM |       | 2.2  | CT HZ TO |  | 60 |
| VOLTS        | 230/460//190/380            |        |   |              |                  | VT HZ FROM |       | 2.2  | VT HZ TO |  | 60 |
| AMPS         | 3/1.5//3.2/1.6              |        |   |              | MAG CUR          | 2/1        |       |      |          |  |    |
| RPM          | 1155//970                   |        |   |              | MX RPM           | 1800       |       |      |          |  |    |
| HZ           | 60//50                      | PH     | 3 | CL           | F                | NOM.EFF.   |       | 82.5 |          |  |    |
| SER.F.       | 1.00                        | DES    | B | SL HZ        | 1.5              | WK2        | 0.189 |      |          |  |    |
| FRAME        | 56                          | RATING |   | 40C AMB-CONT |                  |            |       |      |          |  |    |
|              | 55C AMB AT 1.00 SF SINEWAVE |        |   |              |                  |            |       |      |          |  |    |
|              | NEMA MG-1 PART 5, IP54      |        |   |              | 1.15 SF SINEWAVE |            |       |      |          |  |    |
|              |                             |        |   |              |                  |            |       |      |          |  |    |

## AC Induction Motor Performance Data

Record # 87727

Typical performance - not guaranteed values

| Winding: 35WGG019-R008 |  |                  | Type: 3526M  |                                          | Enclosure: XPFC     |                           |           |              |
|------------------------|--|------------------|--------------|------------------------------------------|---------------------|---------------------------|-----------|--------------|
| Nameplate Data         |  |                  |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |           |              |
| Rated Output (HP)      |  | 1//.75           |              | Full Load Torque                         |                     | 4.48 LB-FT                |           |              |
| Volts                  |  | 230/460//190/380 |              | Start Configuration                      |                     | direct on line            |           |              |
| Full Load Amps         |  | 3/1.5//3.2/1.6   |              | Breakdown Torque                         |                     | 11.9 LB-FT                |           |              |
| R.P.M.                 |  | 1155//970        |              | Pull-up Torque                           |                     | 7.1 LB-FT                 |           |              |
| Hz                     |  | 60//50           | Phase        | 3                                        | Locked-rotor Torque |                           | 8.6 LB-FT |              |
| NEMA Design Code       |  | B                |              | KVA Code                                 | J                   | Starting Current          |           | 9.1 A        |
| Service Factor (S.F.)  |  | 1                |              | No-load Current                          |                     | 1.02 A                    |           |              |
| NEMA Nom. Eff.         |  | 82.5             | Power Factor |                                          | 67                  | Line-line Res. @ 25°C     |           | 21.1 Ω       |
| Rating - Duty          |  | 40C              |              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |           | 46°C         |
| S.F. Amps              |  |                  |              |                                          |                     | Temp. Rise @ S.F. Load    |           | 56°C         |
|                        |  |                  |              |                                          |                     | Locked-rotor Power Factor |           | 48.3         |
|                        |  |                  |              |                                          |                     | Rotor inertia             |           | 0.189 lb-ft² |

## Load Characteristics 460 V, 60 Hz, 1 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 29   | 47   | 59   | 67   | 72   | 75   |
| Efficiency      | 73.5 | 81.9 | 83.5 | 83.1 | 81.6 | 79.1 |
| Speed           | 1193 | 1185 | 1178 | 1169 | 1159 | 1147 |
| Line amperes    | 1.07 | 1.21 | 1.41 | 1.67 | 1.98 | 2.35 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1169 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1







