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# Customer information packet

## CXM050542-57

.5HP, 1425RPM, 3PH, 50HZ, 56C, 3420M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | XPFC                                   |
| Frame                          | 56C                                    |
| Frame Material                 | Steel                                  |
| Frequency                      | 50.00 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             | .500 HP @ 50 HZ                        |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 1500 RPM @ 50 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 50 HZ<br>400.0 V @ 50 HZ     |
| Agency Approvals               | CSA<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                                   |
| Current @ Voltage              | 1.000 A @ 400.0 V<br>1.700 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 73.0 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Haz Area Temp Code             | T3C                                    |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 1.0 a                                  |
| Insulation Class               | F                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGX268   |
| Layout       | 34LY5329   |
| Eff. date    | 02-22-2024 |
| CD Diagram   | CD0022     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 03-30-2021 |

|                            |                            |
|----------------------------|----------------------------|
| Inverter Code              | Not Inverter               |
| IP Rating                  | NONE                       |
| KVA Code                   | K                          |
| Lifting Lugs               | No Lifting Lugs            |
| Locked Bearing Indicator   | No Locked Bearing          |
| Motor Lead Termination     | Flying Leads               |
| Motor Standards            | NEMA                       |
| Motor Type                 | 3420M                      |
| Mounting Arrangement       | F1                         |
| Number of Poles            | 4                          |
| Overall Length             | 14.22 IN                   |
| Power Factor               | 67                         |
| Product Family             | Hazardous Location Motor   |
| Pulley Face Code           | C-Face                     |
| Rodent Screen              | None                       |
| Service Factor             | 1.15                       |
| Shaft Diameter             | 0.625 IN                   |
| Shaft Ground Indicator     | No Shaft Grounding         |
| Shaft Rotation             | Reversible                 |
| Speed                      | 1425 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

| NP1426XPSL |                        |    |              |   |      |   |    |  |  |
|------------|------------------------|----|--------------|---|------|---|----|--|--|
| NO.        |                        | CC |              |   |      |   |    |  |  |
| SER.       |                        |    |              |   |      |   |    |  |  |
| SPEC.      | 34-0000-0409           |    |              |   |      |   |    |  |  |
| CAT.NO.    | CXM050542-57           |    |              |   |      |   |    |  |  |
| HP         | .5                     |    | T. CODE      |   | T3C  |   |    |  |  |
| VOLTS      | 230/400                |    |              |   |      |   |    |  |  |
| AMPS       | 1.7/1                  |    |              |   |      |   |    |  |  |
| RPM        | 1425                   |    |              |   |      |   |    |  |  |
| HZ         | 50                     |    | PH           | 3 | CL   | F |    |  |  |
| SER.F.     | 1.15                   |    | DES          | B | CODE |   | K  |  |  |
| RATING     | 40C AMB-CONT           |    |              |   |      |   |    |  |  |
| FRAME      | 56C                    |    | NEMA-NOM-EFF |   |      |   | 73 |  |  |
|            |                        | PF | 67           |   |      |   |    |  |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |    |              |   |      |   |    |  |  |

**AC Induction Motor Performance Data**

Record # 61361

Typical performance - not guaranteed values

| Winding: 34WGX268-R003 |    |              | Type: 3420M                              |                           | Enclosure: TEFC       |               |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|---------------|--------|
| Nameplate Data         |    |              | 400 V, 50 Hz:<br>High Voltage Connection |                           |                       |               |        |
| Rated Output (HP)      |    | .5           | Full Load Torque                         |                           | 1.8 LB-FT             |               |        |
| Volts                  |    | 230/400      | Start Configuration                      |                           | direct on line        |               |        |
| Full Load Amps         |    | 1.7/1        | Breakdown Torque                         |                           | 6.97 LB-FT            |               |        |
| R.P.M.                 |    | 1425         | Pull-up Torque                           |                           | 5.9 LB-FT             |               |        |
| Hz                     | 50 | Phase        | 3                                        | Locked-rotor Torque       |                       | 6.96 LB-FT    |        |
| NEMA Design Code       |    | B            | KVA Code                                 | K                         | Starting Current      |               | 6.31 A |
| Service Factor (S.F.)  |    | 1.25         |                                          | No-load Current           |                       | 0.704 A       |        |
| NEMA Nom. Eff.         |    | 73           | Power Factor                             | 67                        | Line-line Res. @ 25°C |               | 27.1 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 44°C          |        |
| S.F. Amps              |    | 2/1.2        |                                          | Temp. Rise @ S.F. Load    |                       | 55°C          |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 64            |        |
|                        |    |              |                                          | Rotor inertia             |                       | 0.0476 LB-FT2 |        |

**Load Characteristics 400 V, 50 Hz, 0.5 HP**

| % of Rated Load | 25    | 50    | 75    | 100  | 125  | 150  | S.F. |
|-----------------|-------|-------|-------|------|------|------|------|
| Power Factor    | 35    | 50    | 62    | 69   | 77   | 80   | 77   |
| Efficiency      | 52.4  | 66.3  | 71.8  | 73.3 | 73.9 | 73.1 | 73.9 |
| Speed           | 1479  | 1465  | 1448  | 1418 | 1406 | 1374 | 1406 |
| Line amperes    | 0.749 | 0.819 | 0.901 | 1.04 | 1.15 | 1.31 | 1.15 |

ABB Motors and Mechanical Inc.

WINDING # 34WGX268

Typical performance - not guaranteed values.

0.5 HP 3 PH 50 HZ 1425 RPM 400 V 3420M

TORQUES (LB-FT): PO=6.97 PU=5.9 LR=6.96 LRA=6.31





