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# Customer information packet

## KENM3454

.25HP, 1785RPM, 3PH, 60HZ, 56C, 3512M, GP, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                       |
|--------------------------------|---------------------------------------|
| Enclosure                      | GP                                    |
| Frame                          | 56C                                   |
| Frame Material                 | Steel                                 |
| Frequency                      | 60.00 Hz                              |
| Haz Area Class and Group       | None                                  |
| Haz Area Division              | Not Applicable                        |
| Motor Letter Type              | Three Phase                           |
| Output @ Frequency             | .250 HP @ 60 HZ                       |
| Phase                          | 3                                     |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                      |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ    |
| Agency Approvals               | UR<br>CSA                             |
| Ambient Temperature            | 40 °C                                 |
| Auxillary Box                  | No Auxillary Box                      |
| Auxillary Box Lead Termination | None                                  |
| Base Indicator                 | No Mounting                           |
| Bearing Grease Type            | Polyrex EM (-20F +300F)               |
| Blower                         | None                                  |
| Current @ Voltage              | .800 A @ 460.0 V<br>1.600 A @ 230.0 V |
| Design Code                    | B                                     |
| Drip Cover                     | No Drip Cover                         |
| Duty Rating                    | CONT                                  |
| Efficiency @ 100% Load         | 70.0 %                                |
| Electrically Isolated Bearing  | Not Electrically Isolated             |
| Feedback Device                | NO FEEDBACK                           |
| Front Shaft Indicator          | None                                  |
| Heater Indicator               | No Heater                             |
| High Voltage Full Load Amps    | 0.8 a                                 |
| Insulation Class               | F                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35E010     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG155   |
| Layout       | 35LYE010   |
| Eff. date    | 04-03-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 05-01-2023 |

|                               |                     |
|-------------------------------|---------------------|
| Inverter Code                 | Inverter Duty       |
| KVA Code                      | U                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3512M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 11.06 IN            |
| Power Factor                  | 42                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| RoHS Status                   | ROHS COMPLIANT      |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1785 rpm            |
| Speed Code                    | Single Speed        |
| Starting Method               | Direct on line      |
| Thermal Device - Bearing      | None                |
| Thermal Device - Winding      | None                |
| Vibration Sensor Indicator    | No Vibration Sensor |
| Winding Thermal 1             | None                |
| Winding Thermal 2             | None                |

## Nameplate

| NP2116L      |              |      |    |      |    |   |    |   |    |  |   |
|--------------|--------------|------|----|------|----|---|----|---|----|--|---|
| CAT.NO.      | KENM3454     |      |    |      |    |   |    |   |    |  |   |
| SPEC.        | 35E010G155G4 |      |    |      |    |   |    |   |    |  |   |
| HP           | .25          |      |    |      |    |   |    |   |    |  |   |
| VOLTS        | 230/460      |      |    |      |    |   |    |   |    |  |   |
| AMP          | 1.6/.8       |      |    |      |    |   |    |   |    |  |   |
| RPM          | 1785         |      |    |      |    |   |    |   |    |  |   |
| FRAME        | 56C          |      |    |      | HZ |   | 60 |   | PH |  | 3 |
| SER.F.       | 1.15         | CODE | U  | DES  |    | B | CL | F |    |  |   |
| NEMA-NOM-EFF | 70           | PF   | 42 |      |    |   |    |   |    |  |   |
| RATING       | 40C AMB-CONT |      |    |      |    |   |    |   |    |  |   |
| CC           |              |      |    |      |    |   |    |   |    |  |   |
| DE           | 6205         | ODE  |    | 6203 |    |   |    |   |    |  |   |
| ENCL         | TENV         | SN   |    |      |    |   |    |   |    |  |   |
|              | SFA 1.61/.81 |      |    |      |    |   |    |   |    |  |   |

**AC Induction Motor Performance Data**

Record # 91140

Typical performance - not guaranteed values

| Winding: 35WGG155-R061 |    |              |              | Type: 3512M                              |  | Enclosure: TENV |  |
|------------------------|----|--------------|--------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |    | .25          |              | Full Load Torque                         |  | 0.739 LB-FT     |  |
| Volts                  |    | 230/460      |              | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |    | 1.6/.8       |              | Breakdown Torque                         |  | 6.28 LB-FT      |  |
| R.P.M.                 |    | 1785         |              | Pull-up Torque                           |  | 3.26 LB-FT      |  |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |  | 4.04 LB-FT      |  |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                         |  | 6.71 A          |  |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |  | 0.792 A         |  |
| NEMA Nom. Eff.         |    | 70           | Power Factor | Line-line Res. @ 25°C                    |  | 43.2 Ω          |  |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |  | 46°C            |  |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |  | 48°C            |  |
|                        |    |              |              | Locked-rotor Power Factor                |  | 70.7767         |  |
|                        |    |              |              | Rotor inertia                            |  | 0.0866 lb-ft²   |  |

**Load Characteristics 460 V, 60 Hz, 0.25 HP**

| % of Rated Load | 25    | 50   | 75    | 100   | 125   | 150   | S.F.  |
|-----------------|-------|------|-------|-------|-------|-------|-------|
| Power Factor    | 19    | 27   | 34    | 41    | 49    | 55    | 46    |
| Efficiency      | 40.8  | 57   | 65.8  | 71.2  | 74.5  | 76.7  | 73.2  |
| Speed           | 1795  | 1791 | 1787  | 1784  | 1779  | 1775  | 1781  |
| Line amperes    | 0.782 | 0.78 | 0.787 | 0.796 | 0.813 | 0.843 | 0.806 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1785 RPM 460 V 3512M

TORQUES (LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71





