



## Product Information Packet

# M3539

.5HP,1140RPM,3PH,60HZ,56,3418M,TEFC,F1

| Part Detail |        |             |            |             |        |               |    |
|-------------|--------|-------------|------------|-------------|--------|---------------|----|
| Revision:   | AA     | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No |
| Type:       | AC     | Elec. Spec: | 34WG5884   | CD Diagram: | CD0005 | Mfg Plant:    |    |
| Mech. Spec: | 34A061 | Layout:     | 34LYA061   | Poles:      | 06     | Created Date: |    |
| Base:       | RG     | Eff. Date:  | 04-22-2021 | Leads:      | 9#18   |               |    |

| Specs                           |                         |                                |                   |
|---------------------------------|-------------------------|--------------------------------|-------------------|
| Catalog Number:                 | M3539                   | Insulation Class:              | B                 |
| Enclosure:                      | TEFC                    | Inverter Code:                 | Not Inverter      |
| Frame:                          | 56                      | IP Rating:                     | NONE              |
| Frame Material:                 | Steel                   | KVA Code:                      | J                 |
| Motor Letter Type:              | Three Phase             | Lifting Lugs:                  | No Lifting Lugs   |
| Output @ Frequency:             | .500 HP @ 60 HZ         | Locked Bearing Indicator:      | No Locked Bearing |
| Synchronous Speed @ Frequency:  | 1200 RPM @ 60 HZ        | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG        |
| Voltage @ Frequency:            | 230.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box            |
|                                 | 460.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads      |
| XP Class and Group:             | None                    | Motor Type:                    | 3418M             |
| XP Division:                    | Not Applicable          | Mounting Arrangement:          | F1                |
| Agency Approvals:               | UR                      | Power Factor:                  | 55                |
|                                 | CSA                     | Product Family:                | General Purpose   |
| Auxillary Box:                  | No Auxillary Box        | Pulley End Bearing Type:       | Ball              |
| Auxillary Box Lead Termination: | None                    | Pulley Face Code:              | Standard          |
| Base Indicator:                 | Rigid                   | Pulley Shaft Indicator:        | Standard          |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Rodent Screen:                 | None              |
| Blower:                         | None                    | RoHS Status:                   | ROHS COMPLIANT    |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 1.200 A @ 460.0 V         | <b>Shaft Extension Location:</b>   | Pulley End          |
|                                       | 2.400 A @ 230.0 V         | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 2.700 A @ 208.0 V         | <b>Shaft Rotation:</b>             | Reversible          |
| <b>Design Code:</b>                   | B                         | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Speed Code:</b>                 | Single Speed        |
| <b>Duty Rating:</b>                   | CONT                      | <b>Motor Standards:</b>            | NEMA                |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Starting Method:</b>            | Direct on line      |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Heater Indicator:</b>              | No Heater                 | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP1256L

|              |              |  |  |                |      |     |   |  |       |    |     |
|--------------|--------------|--|--|----------------|------|-----|---|--|-------|----|-----|
| CAT.NO.      | M3539        |  |  |                |      |     |   |  |       |    |     |
| SPEC.        | 34A61-5884   |  |  |                |      |     |   |  |       |    |     |
| HP           | .5           |  |  |                |      |     |   |  |       |    |     |
| VOLTS        | 230/460      |  |  |                |      |     |   |  |       |    |     |
| AMP          | 2.4/1.2      |  |  |                |      |     |   |  |       |    |     |
| RPM          | 1140         |  |  |                |      |     |   |  |       |    |     |
| FRAME        | 56           |  |  |                | HZ   | 60  |   |  |       | PH | 3   |
| SER.F.       | 1.25         |  |  | CODE           | J    | DES | B |  | CLASS | B  |     |
| NEMA-NOM-EFF | 72           |  |  | PF             | 55   |     |   |  |       |    |     |
| RATING       | 40C AMB-CONT |  |  |                |      |     |   |  |       |    |     |
| CC           |              |  |  | USABLE AT 208V |      |     |   |  |       |    | 2.7 |
| DE           | 6203         |  |  | ODE            | 6203 |     |   |  |       |    |     |
| ENCL         | TEFC         |  |  | SN             |      |     |   |  |       |    |     |
|              | SFA 2.6/1.3  |  |  |                |      |     |   |  |       |    |     |

**AC Induction Motor Performance Data**

Record # 6835

Typical performance - not guaranteed values

| Winding: 34WG5884-R001 |  |                 | Type: 3418M |                                          | Enclosure: TEFC |                |
|------------------------|--|-----------------|-------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |  |                 |             | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |  | .5              |             | Full Load Torque                         |                 | 2.3 LB-FT      |
| Volts                  |  | 230/460         |             | Start Configuration                      |                 | direct on line |
| Full Load Amps         |  | 2.4/1.2         |             | Breakdown Torque                         |                 | 7.7 LB-FT      |
| R.P.M.                 |  | 1140            |             | Pull-up Torque                           |                 | 6 LB-FT        |
| Hz                     |  | 60 Phase        |             | Locked-rotor Torque                      |                 | 6.2 LB-FT      |
| NEMA Design Code       |  | B KVA Code      |             | Starting Current                         |                 | 5 A            |
| Service Factor (S.F.)  |  | 1.25            |             | No-load Current                          |                 | 0.95 A         |
| NEMA Nom. Eff.         |  | 72 Power Factor |             | Line-line Res. @ 25°C                    |                 | 39.6 Ω         |
| Rating - Duty          |  | 40C AMB-CONT    |             | Temp. Rise @ Rated Load                  |                 | 63°C           |
| S.F. Amps              |  | 2.6/1.3         |             | Temp. Rise @ S.F. Load                   |                 | 77°C           |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 20   | 34   | 45   | 55   | 62   | 68   | 62   |
| Efficiency      | 48   | 63   | 67   | 72   | 72   | 71   | 72   |
| Speed           | 1185 | 1170 | 1155 | 1140 | 1120 | 1100 | 1120 |
| Line amperes    | 0.95 | 1    | 1.1  | 1.2  | 1.3  | 1.5  | 1.3  |

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





