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# Customer information packet

## M3541-5

.75HP, 3450RPM, 3PH, 60HZ, 56, 3413M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 56                        |
| 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             | .750 HP @ 60 HZ           |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | UR<br>CSA                 |
| Ambient Temperature            | 40 °C                     |
| Auxillary Box                  | No Auxillary Box          |
| Auxillary Box Lead Termination | None                      |
| Base Indicator                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | .960 A @ 575.0 V          |
| Design Code                    | B                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 74.0 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Standard                  |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 1.0 a                     |
| Insulation Class               | B                         |
| Inverter Code                  | Not Inverter              |

## Part detail

|              |            |
|--------------|------------|
| Revision     | X          |
| Type         | AC         |
| Mech. spec.  | 34A061     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG0492   |
| Layout       | 34LYA061   |
| Eff. date    | 12-30-2024 |
| CD Diagram   | CD0006     |
| Poles        | 02         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                               |                     |
|-------------------------------|---------------------|
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 3 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3413M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 11.35 IN            |
| Power Factor                  | 73                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.25                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 3450 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

| NP1256L      |              |      |     |      |   |       |   |  |  |
|--------------|--------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.      | M3541-5      |      |     |      |   |       |   |  |  |
| SPEC.        | 34A61-492    |      |     |      |   |       |   |  |  |
| HP           | .75          |      |     |      |   |       |   |  |  |
| VOLTS        | 575          |      |     |      |   |       |   |  |  |
| AMP          | .96          |      |     |      |   |       |   |  |  |
| RPM          | 3450         |      |     |      |   |       |   |  |  |
| FRAME        | 56           |      | HZ  | 60   |   | PH    | 3 |  |  |
| SER.F.       | 1.25         | CODE | K   | DES  | B | CLASS | B |  |  |
| NEMA-NOM-EFF | 74           | PF   | 73  |      |   |       |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |   |  |  |
| CC           |              |      |     |      |   |       |   |  |  |
| DE           | 6203         |      | ODE | 6203 |   |       |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |       |   |  |  |
|              | SFA 1.2      |      |     |      |   |       |   |  |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 34-171      | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 6585

Typical performance - not guaranteed values

| Winding: 34WG0492-R001 |    |       | Type: 3413M |                                       | Enclosure: TEFC |                         |
|------------------------|----|-------|-------------|---------------------------------------|-----------------|-------------------------|
| Nameplate Data         |    |       |             | 575 V, 60 Hz:<br>Single Voltage Motor |                 |                         |
| Rated Output (HP)      |    | .75   |             | Full Load Torque                      |                 | 1.2 LB-FT               |
| Volts                  |    | 575   |             | Start Configuration                   |                 | direct on line          |
| Full Load Amps         |    | 0.96  |             | Breakdown Torque                      |                 | 4.8 LB-FT               |
| R.P.M.                 |    | 3450  |             | Pull-up Torque                        |                 | 3.5 LB-FT               |
| Hz                     | 60 | Phase | 3           | Locked-rotor Torque                   |                 | 3.9 LB-FT               |
| NEMA Design Code       |    | B     |             | KVA Code                              | K               |                         |
| Service Factor (S.F.)  |    | 1.25  |             | Starting Current                      |                 | 6.1 A                   |
| NEMA Nom. Eff.         |    | 74    |             | Power Factor                          | 73              |                         |
| Rating - Duty          |    | 40C   |             | AMB-CONT                              |                 | Temp. Rise @ Rated Load |
| S.F. Amps              |    | 1.2   |             | Temp. Rise @ S.F. Load                |                 | 84°C                    |

**Load Characteristics 575 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 39   | 58   | 67   | 78   | 82   | 84   | 0    |
| Efficiency      | 57.7 | 70.6 | 73.6 | 75.1 | 74.7 | 74   | 0    |
| Speed           | 3553 | 3518 | 3481 | 3440 | 3395 | 3344 | 0    |
| Line amperes    | 0.76 | 0.82 | 0.9  | 1.06 | 1.2  | 1.3  | 1.2  |

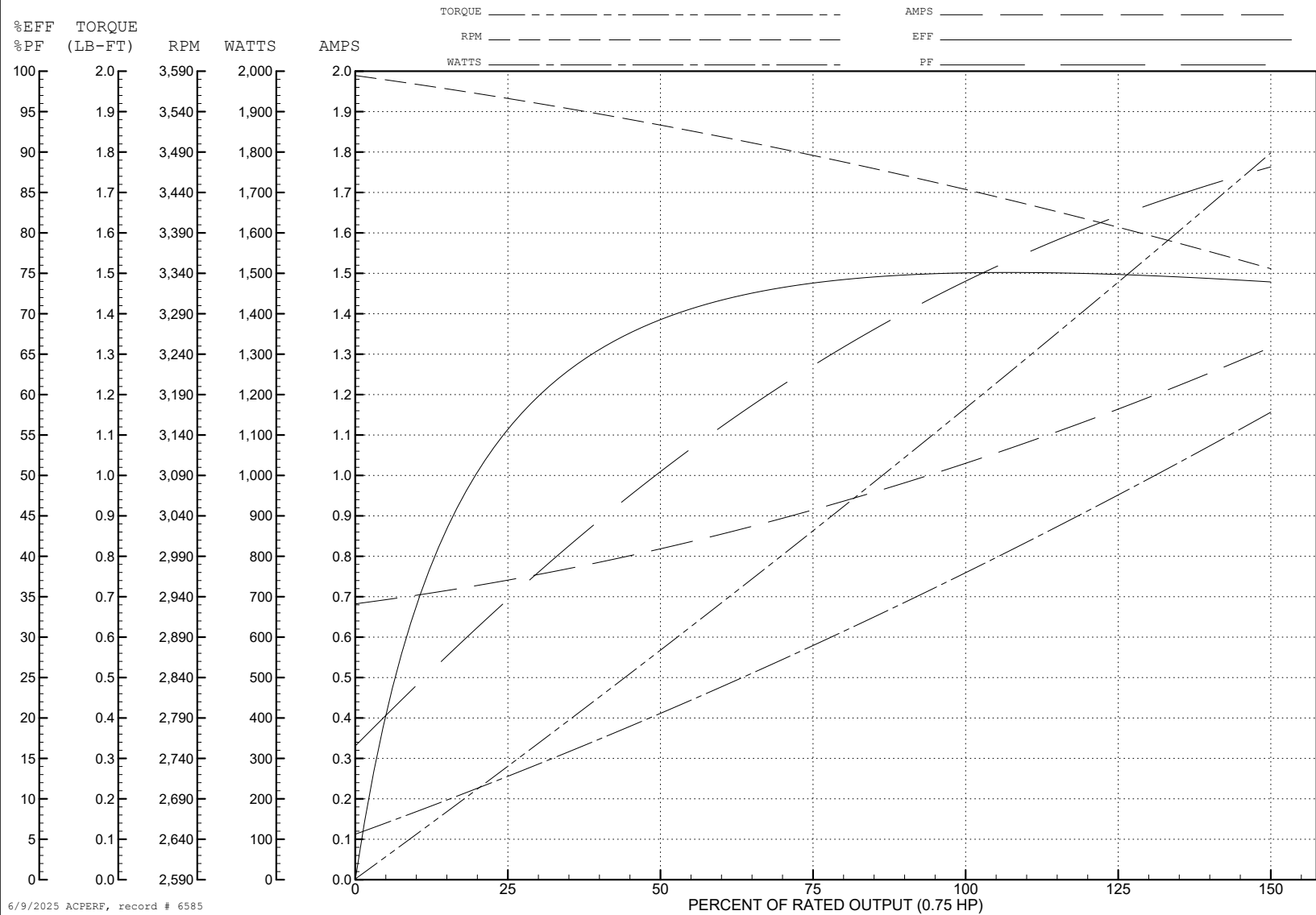
ABB Motors and Mechanical Inc.

WINDING # 34WG0492

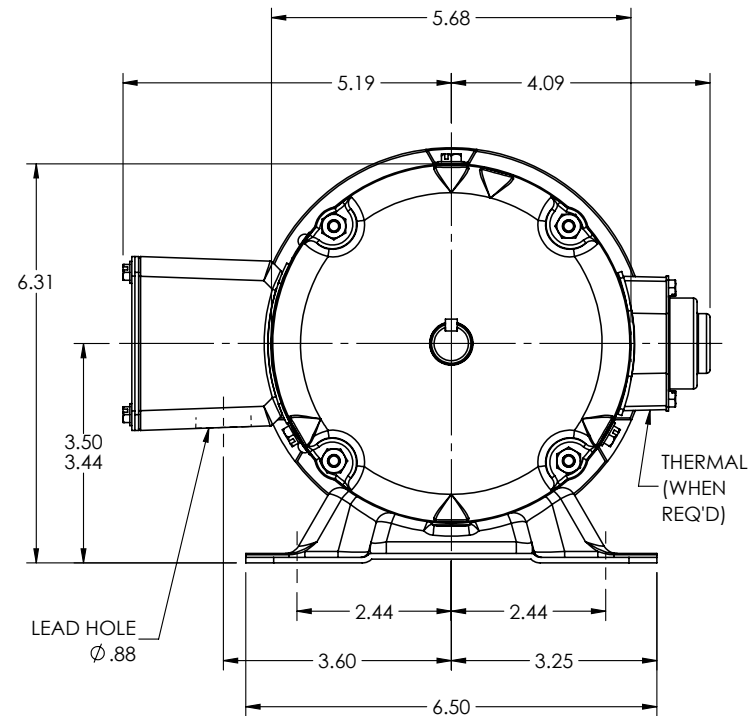
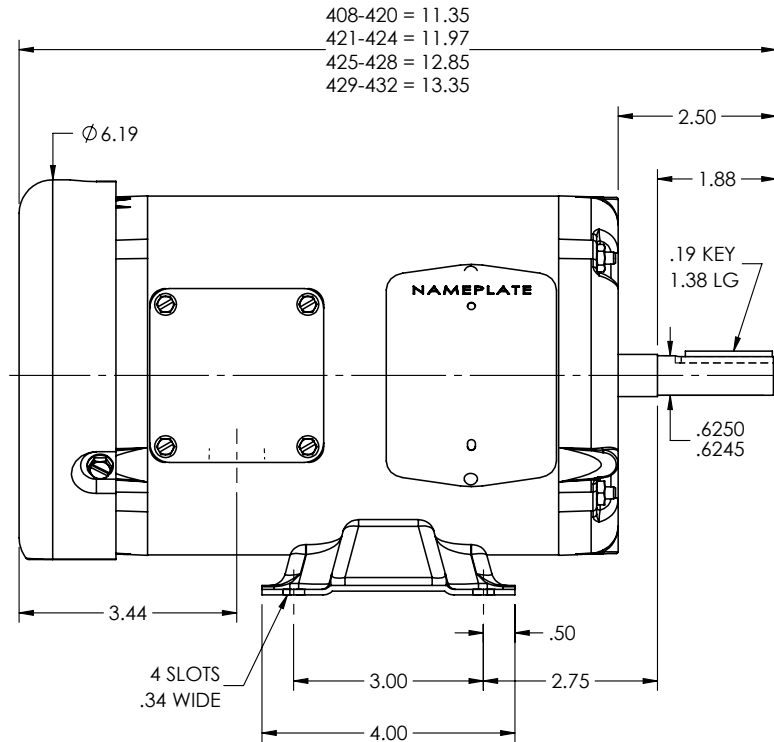
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3450 RPM 575 V 3413M

TORQUES (LB-FT): PO=4.8 PU=3.5 LR=3.9 LRA=6.1



34LYA061



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CLEAN UP DIMENSIONING

REV: N

VERSION: 06

REVISED: 02:32:44 11/26/2024

TDR: 000001245356

34LYA061

MODEL NO. 34LYA061

REF: -

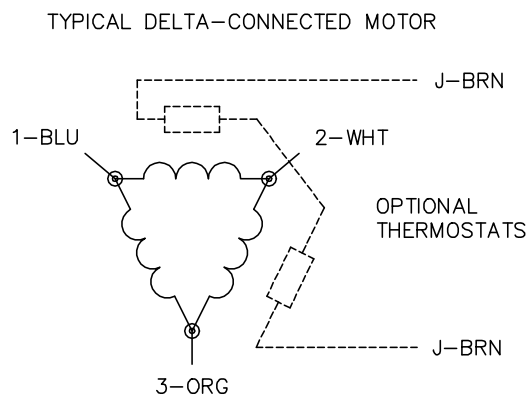
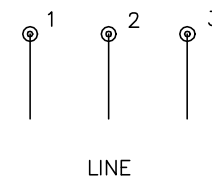
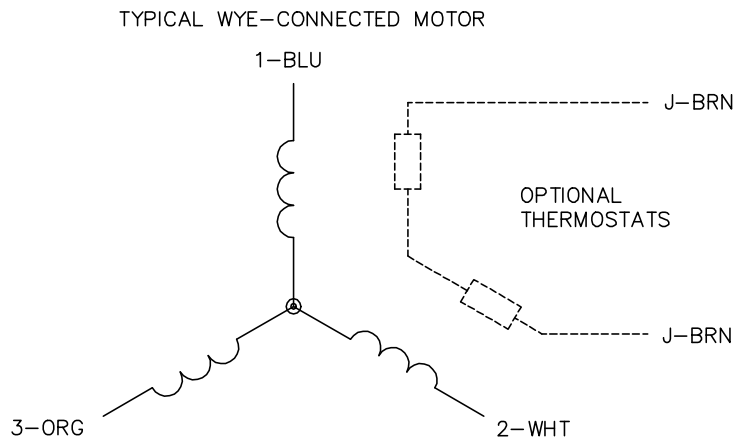
BY: ENJEFD0

BALDOR - RELIANCE®

STD HORZ 34M NEMA 56 TEFC

34LYA061

CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —



**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1