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# Customer information packet

## NM3534

.33HP, 1725RPM, 3PH, 60HZ, 56, 3416M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |  |
|--------------------------------|--|
| Enclosure                      | TENV   |
| 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             | .330 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               | CSA<br>UR  |
| 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              | 1.550 A @ 208.0 V<br>1.400 A @ 230.0 V<br>.700 A @ 460.0 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 Face Code                | Standard   |
| Front Shaft Indicator          | None   |
| Heater Indicator               | No Heater  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | T          |
| Type         | AC         |
| Mech. spec.  | 34A076     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG0116   |
| Layout       | 34LYA076   |
| Eff. date    | 12-18-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>High Voltage Full Load Amps</b>   | 0.7 a               |
| <b>Insulation Class</b>              | F                   |
| <b>Inverter Code</b>                 | Not Inverter        |
| <b>KVA Code</b>                      | K                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing   |
| <b>Motor Lead Exit</b>               | Ko Box              |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3416M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 10.25 IN            |
| <b>Power Factor</b>                  | 64                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | Standard            |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.35                |
| <b>Shaft Diameter</b>                | 0.625 IN            |
| <b>Shaft Extension Location</b>      | Pulley End          |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 1725 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>      | None                |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor |
| <b>Winding Thermal 1</b>             | None                |
| <b>Winding Thermal 2</b>             | None                |

**Nameplate**

| <b>NP1256L</b>      |              |             |           |            |   |              |   |  |  |  |
|---------------------|--------------|-------------|-----------|------------|---|--------------|---|--|--|--|
| <b>CAT.NO.</b>      | NM3534       |             |           |            |   |              |   |  |  |  |
| <b>SPEC.</b>        | 34A76-116G1  |             |           |            |   |              |   |  |  |  |
| <b>HP</b>           | .33          |             |           |            |   |              |   |  |  |  |
| <b>VOLTS</b>        | 230/460      |             |           |            |   |              |   |  |  |  |
| <b>AMP</b>          | 1.4/.7       |             |           |            |   |              |   |  |  |  |
| <b>RPM</b>          | 1725         |             |           |            |   |              |   |  |  |  |
| <b>FRAME</b>        | 56           |             | <b>HZ</b> | 60         |   | <b>PH</b>    | 3 |  |  |  |
| <b>SER.F.</b>       | 1.35         | <b>CODE</b> | K         | <b>DES</b> | B | <b>CLASS</b> | F |  |  |  |
| <b>NEMA-NOM-EFF</b> | 70           | <b>PF</b>   | 64        |            |   |              |   |  |  |  |
| <b>RATING</b>       | 40C AMB-CONT |             |           |            |   |              |   |  |  |  |
| <b>CC</b>           |              |             |           |            |   |              |   |  |  |  |
| <b>DE</b>           | 6203         | <b>ODE</b>  | 6203      |            |   |              |   |  |  |  |
| <b>ENCL</b>         | TENV         | <b>SN</b>   |           |            |   |              |   |  |  |  |
|                     | SFA 1.5/.75  |             |           |            |   |              |   |  |  |  |

**Accessories**

| <b>Part number</b> | <b>Description</b> | <b>Multiplier</b> |
|--------------------|--------------------|-------------------|
| 34-171             | C FACE KIT         | A8                |

**AC Induction Motor Performance Data**

Record # 20815

Typical performance - not guaranteed values

| <b>Winding: 34WG0116-R008</b> |                        | <b>Type: 3416M</b> |  | <b>Enclosure: TENV</b> |  |
|-------------------------------|------------------------|--------------------|--|------------------------|--|
| <b>Nameplate Data</b>         |                        |                    | <b>460 V, 60 Hz:<br/>High Voltage Connection</b> |                        |  |
| <b>Rated Output (HP)</b>      | .33                    |                    | <b>Full Load Torque</b>                          | 1 LB-FT                |  |
| <b>Volts</b>                  | 230/460                |                    | <b>Start Configuration</b>                       | direct on line         |  |
| <b>Full Load Amps</b>         | 1.4/.7                 |                    | <b>Breakdown Torque</b>                          | 4.9 LB-FT              |  |
| <b>R.P.M.</b>                 | 1725                   |                    | <b>Pull-up Torque</b>                            | 3.35 LB-FT             |  |
| <b>Hz</b>                     | <b>60 Phase</b>        | 3                  | <b>Locked-rotor Torque</b>                       | 3.75 LB-FT             |  |
| <b>NEMA Design Code</b>       | <b>B KVA Code</b>      | K                  | <b>Starting Current</b>                          | 4.3 A                  |  |
| <b>Service Factor (S.F.)</b>  | 1.35                   |                    | <b>No-load Current</b>                           | 0.54 A                 |  |
| <b>NEMA Nom. Eff.</b>         | <b>70 Power Factor</b> | 64                 | <b>Line-line Res. @ 25°C</b>                     | 39.4 Ω                 |  |
| <b>Rating - Duty</b>          | 40C AMB-CONT           |                    | <b>Temp. Rise @ Rated Load</b>                   | 60°C                   |  |
| <b>S.F. Amps</b>              | 1.5/.75                |                    | <b>Temp. Rise @ S.F. Load</b>                    | 74°C                   |  |

**Load Characteristics 460 V, 60 Hz, 0.33 HP**

| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>S.F.</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| <b>Power Factor</b>    | 28        | 41        | 52        | 61         | 68         | 73         | 70          |
| <b>Efficiency</b>      | 50        | 65        | 72        | 75.5       | 77         | 77         | 77          |
| <b>Speed</b>           | 1784      | 1771      | 1758      | 1744       | 1729       | 1713       | 1723        |
| <b>Line amperes</b>    | 0.55      | 0.58      | 0.62      | 0.67       | 0.73       | 0.81       | 0.762       |

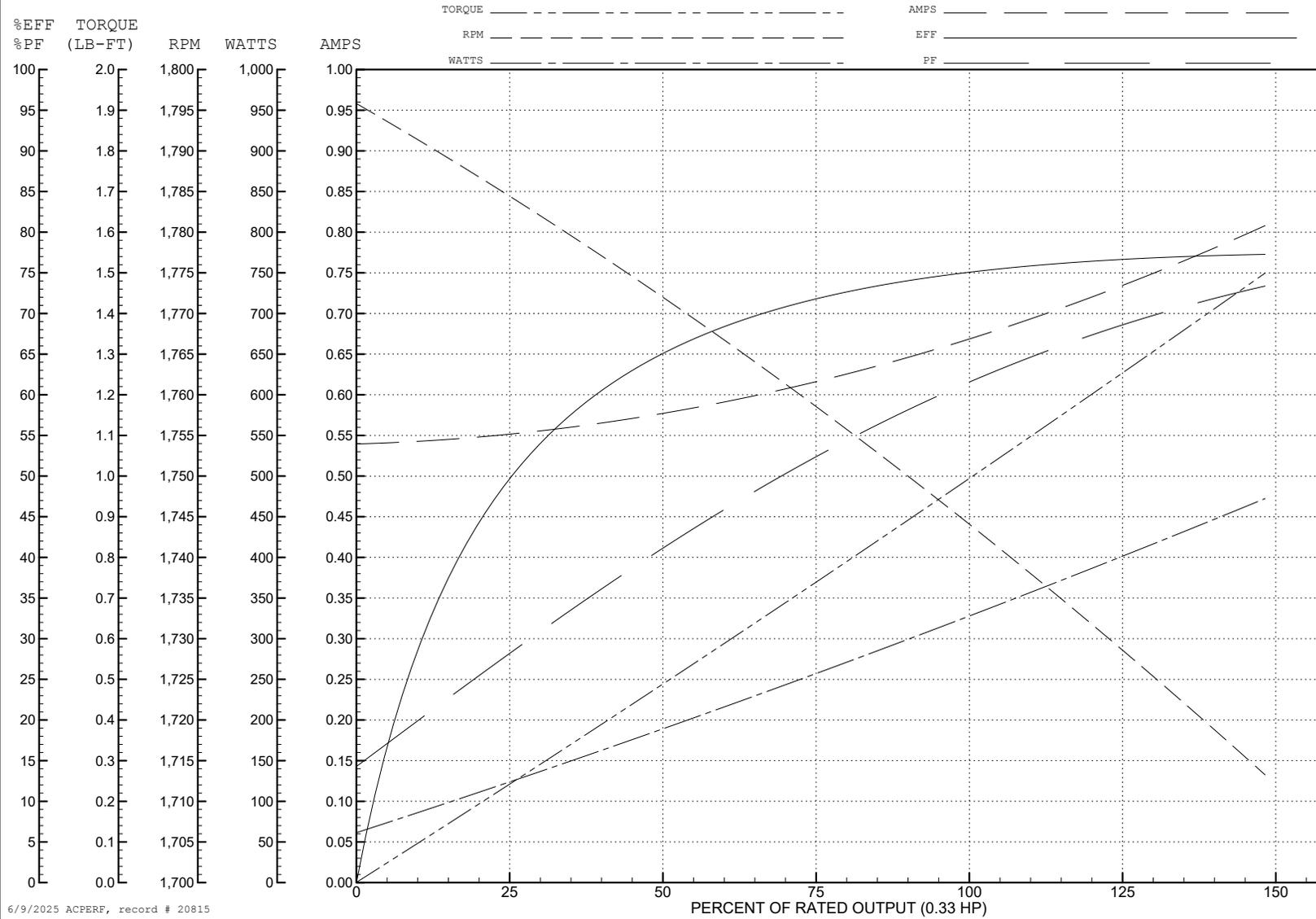
ABB Motors and Mechanical Inc.

WINDING # 34WG0116

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

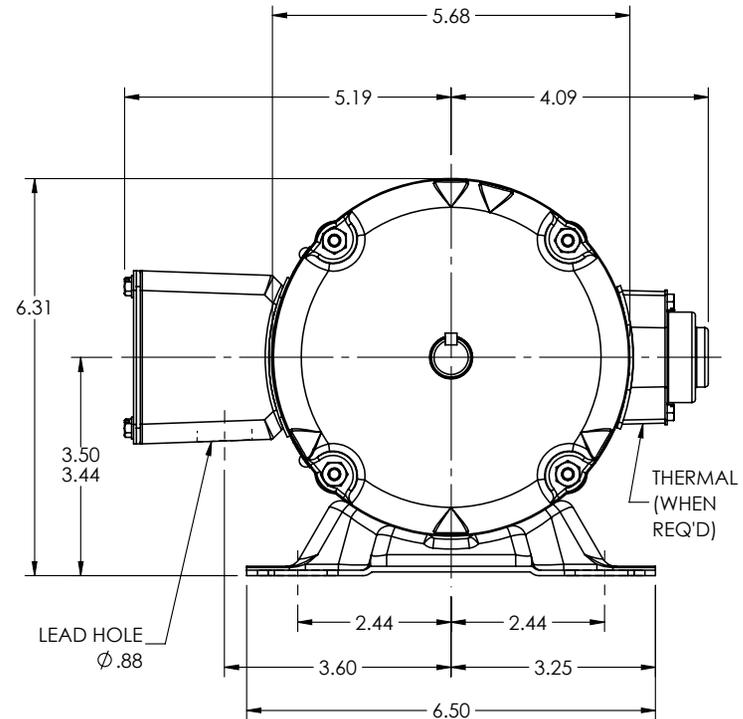
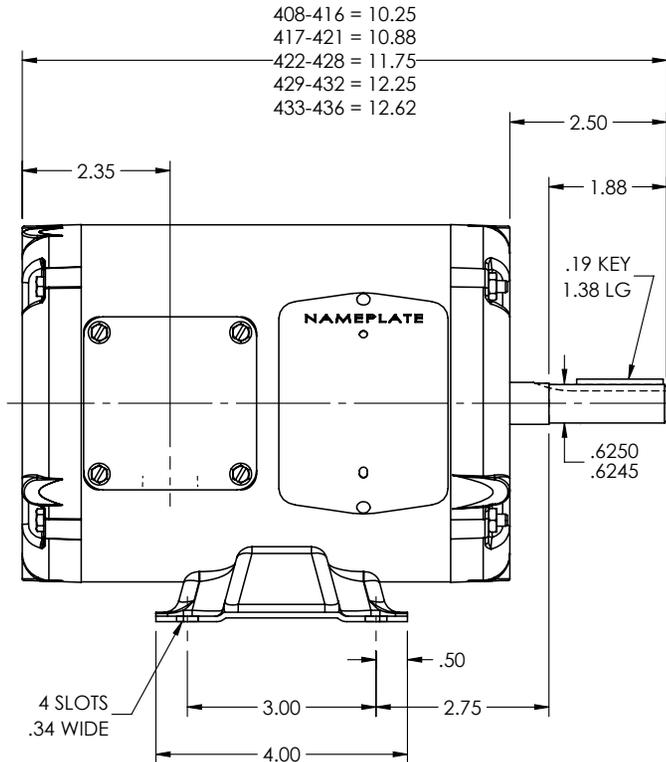
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=4.9 PU=3.35 LR=3.75 LRA=4.3



6/9/2025 ACPERF, record # 20815

34LYA076



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

REV. DESC: ADDED 433-436 STACK LENGTHS

REV: J    VERSION: 07    REVISED: 02:07:05 12/16/2024    TDR: 000001246608

34LYA076

MODEL NO. 34LYA076

BY: ENJEFD0

REF: -

**BALDOR - RELIANCE®**

STD HORZ MODEL 34M NEMA 56 TENV/TEAO

34LYA076

CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

|   |         |                         |              |
|---|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|   |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS