



## Product Information Packet

# KM3457

.33HP,3450RPM,3PH,60HZ,56C,3410M,TENV,F1

| Part Detail |        |             |            |             |        |               |    |
|-------------|--------|-------------|------------|-------------|--------|---------------|----|
| Revision:   | K      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No |
| Type:       | AC     | Elec. Spec: | 34WGY170   | CD Diagram: | CD0005 | Mfg Plant:    |    |
| Mech. Spec: | 34K013 | Layout:     | 34LYK013   | Poles:      | 02     | Created Date: |    |
| Base:       | N      | Eff. Date:  | 10-12-2019 | Leads:      | 9#18   |               |    |

| Specs                           |                         |                                |                 |
|---------------------------------|-------------------------|--------------------------------|-----------------|
| Catalog Number:                 | KM3457                  | Insulation Class:              | B               |
| Enclosure:                      | TENV                    | Inverter Code:                 | Not Inverter    |
| Frame:                          | 56C                     | KVA Code:                      | P               |
| Frame Material:                 | Steel                   | Lifting Lugs:                  | No Lifting Lugs |
| Motor Letter Type:              | Three Phase             | Locked Bearing Indicator:      | Locked Bearing  |
| Output @ Frequency:             | .330 HP @ 60 HZ         | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG      |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ        | Motor Lead Exit:               | Ko Box          |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads    |
|                                 | 230.0 V @ 60 HZ         | Motor Type:                    | 3410M           |
| XP Class and Group:             | None                    | Mounting Arrangement:          | F1              |
| XP Division:                    | Not Applicable          | Power Factor:                  | 64              |
| Agency Approvals:               | CSA                     | Product Family:                | General Purpose |
|                                 | UR                      | Pulley End Bearing Type:       | Ball            |
| Auxillary Box:                  | No Auxillary Box        | Pulley Face Code:              | C-Face          |
| Auxillary Box Lead Termination: | None                    | Pulley Shaft Indicator:        | Standard        |
| Base Indicator:                 | No Mounting             | Rodent Screen:                 | None            |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | RoHS Status:                   | ROHS COMPLIANT  |
| Blower:                         | None                    | Shaft Extension Location:      | Pulley End      |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 1.400 A @ 230.0 V         | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 1.600 A @ 208.0 V         | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | .700 A @ 460.0 V          | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Design Code:</b>                   | B                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
| <b>Heater Indicator:</b>              | No Heater                 | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP1256L

|              |              |  |      |                |    |      |    |   |       |    |     |
|--------------|--------------|--|------|----------------|----|------|----|---|-------|----|-----|
| CAT.NO.      | KM3457       |  |      |                |    |      |    |   |       |    |     |
| SPEC.        | 34K013Y170   |  |      |                |    |      |    |   |       |    |     |
| HP           | .33          |  |      |                |    |      |    |   |       |    |     |
| VOLTS        | 230/460      |  |      |                |    |      |    |   |       |    |     |
| AMP          | 1.4/.7       |  |      |                |    |      |    |   |       |    |     |
| RPM          | 3450         |  |      |                |    |      |    |   |       |    |     |
| FRAME        | 56C          |  |      |                | HZ |      | 60 |   |       | PH | 3   |
| SER.F.       | 1.35         |  | CODE |                | P  | DES  |    | B | CLASS |    | B   |
| NEMA-NOM-EFF | 72           |  |      | PF             |    | 64   |    |   |       |    |     |
| RATING       | 40C AMB-CONT |  |      |                |    |      |    |   |       |    |     |
| CC           |              |  |      | USABLE AT 208V |    |      |    |   |       |    | 1.6 |
| DE           | 6203         |  |      | ODE            |    | 6203 |    |   |       |    |     |
| ENCL         | TENV         |  | SN   |                |    |      |    |   |       |    |     |
|              | SFA 1.5/.75  |  |      |                |    |      |    |   |       |    |     |

## AC Induction Motor Performance Data

Record # 28270

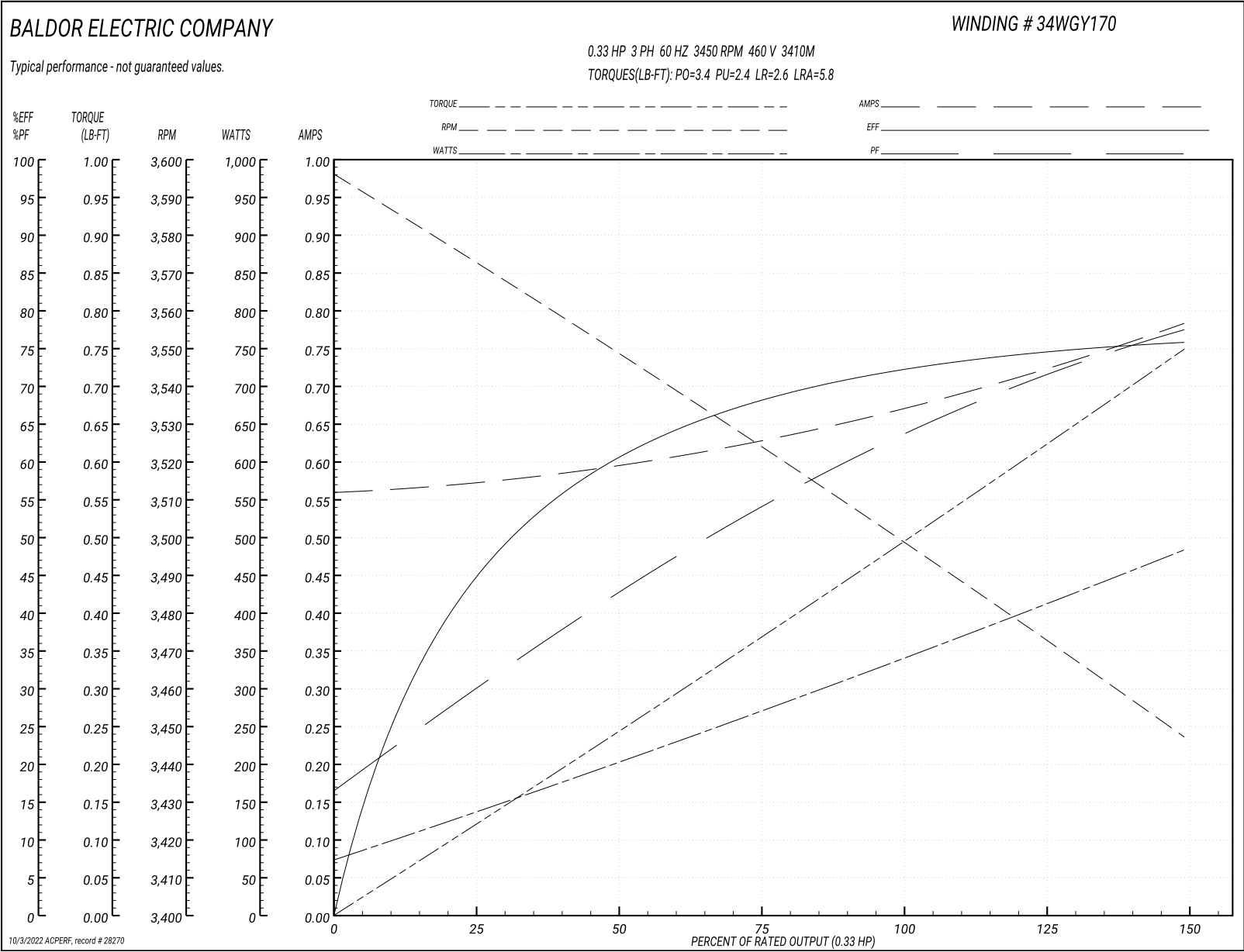
Preliminary Data Sheet

| Winding: 34WGY170-R001 |          |         | Type: 3410M                              |  | Enclosure: TENV         |                       |        |
|------------------------|----------|---------|------------------------------------------|--|-------------------------|-----------------------|--------|
| Nameplate Data         |          |         | 460 V, 60 Hz:<br>High Voltage Connection |  |                         |                       |        |
| Rated Output (HP)      |          | .33     | Full Load Torque                         |  | 0.5 LB-FT               |                       |        |
| Volts                  |          | 230/460 | Start Configuration                      |  | direct on line          |                       |        |
| Full Load Amps         |          | 1.4/.7  | Breakdown Torque                         |  | 3.4 LB-FT               |                       |        |
| R.P.M.                 |          | 3450    | Pull-up Torque                           |  | 2.4 LB-FT               |                       |        |
| Hz                     | 60 Phase | 3       | Locked-rotor Torque                      |  | 2.6 LB-FT               |                       |        |
| NEMA Design Code       |          | B       | KVA Code                                 |  | P                       | Starting Current      | 5.8 A  |
| Service Factor (S.F.)  |          | 1.35    | No-load Current                          |  | 0.56 A                  |                       |        |
| NEMA Nom. Eff.         |          | 72      | Power Factor                             |  | 64                      | Line-line Res. @ 25°C | 31.7 Ω |
| Rating - Duty          |          | 40C     | AMB-CONT                                 |  | Temp. Rise @ Rated Load |                       | 57°C   |
| S.F. Amps              |          | 1.5/.75 | Temp. Rise @ S.F. Load                   |  | 66°C                    |                       |        |

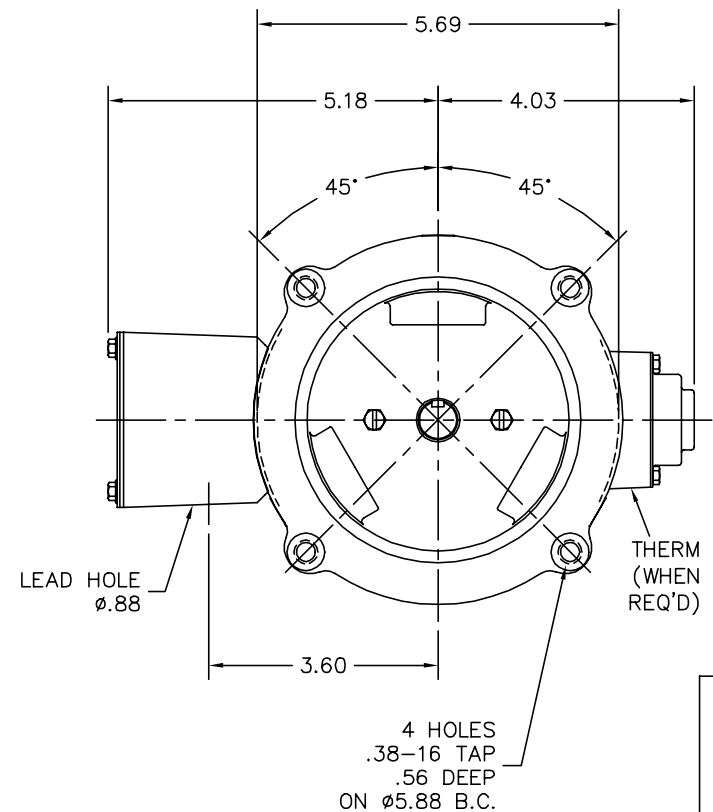
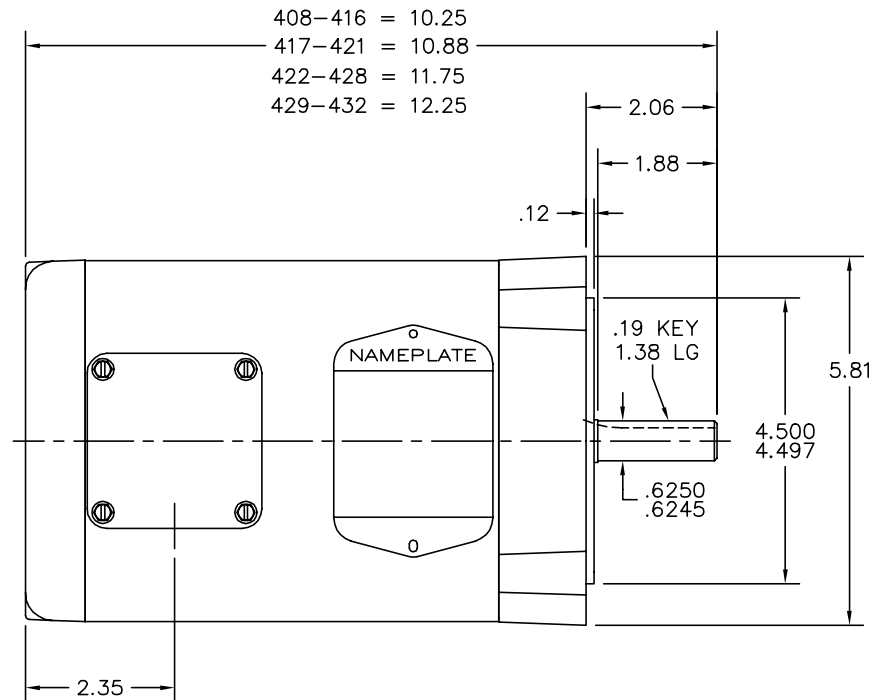
## Load Characteristics 460 V, 60 Hz, 0.33 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F.  |
|-----------------|------|------|------|------|------|------|-------|
| Power Factor    | 32   | 42   | 55   | 63   | 73   | 77   | 75    |
| Efficiency      | 43.7 | 62   | 68.3 | 72.8 | 74.4 | 75.8 | 75    |
| Speed           | 3569 | 3544 | 3526 | 3497 | 3477 | 3444 | 3464  |
| Line amperes    | 0.57 | 0.6  | 0.63 | 0.68 | 0.71 | 0.79 | 0.742 |

Performance Graph at 460V, 60Hz, 0.33HP Typical performance - Not guaranteed values



34LYK013



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                                   |                              |                   |
|-----------------------------------|------------------------------|-------------------|
| REV. DESC: UPDAYE LAYOUT GRAPHICS |                              |                   |
| REV. LTR: E                       | VERSION: 02                  | TDR: 000001189903 |
| FILE: \AAA\00026\147              | REVISED: 01:36:30 04/26/2022 | BY: ENJEFD0       |
| MTL: -                            |                              |                   |

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STD VERT 34M NEMA 56C TENV

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