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# Customer information packet

## VEBM3558-D

2/1.5KWHP, 1760 1/MIN IP44 IC411 26KGRPM

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| 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             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CE<br>CURUSEEV<br>NEMA PREMIUM<br>UKCA<br>WEEE              |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 5.800 A @ 208.0 V<br>5.600 A @ 230.0 V<br>2.800 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 86.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35X145     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG073   |
| Layout       | 35LYX145   |
| Eff. date    | 09-11-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 01-10-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Front Shaft Indicator         | None                |
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 2.8 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| IP Rating                     | NONE                |
| KVA Code                      | K                   |
| 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                    | 3528M               |
| Mounting Arrangement          | F3                  |
| Number of Poles               | 4                   |
| Overall Length                | 17.29 IN            |
| Power Factor                  | 77                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Sealed Bearing      |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1760 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 |
|-------------------|------|

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## Nameplate

| NP2934L        |                         |  |      |      |  |     |   |    |   |
|----------------|-------------------------|--|------|------|--|-----|---|----|---|
| CAT.NO.        | VEBM3558-D              |  |      |      |  |     |   |    |   |
| SPEC.          | 35X145G073G1            |  |      |      |  |     |   |    |   |
| HP             | 2/1.5KW                 |  |      |      |  |     |   |    |   |
| VOLTS          | 230/460                 |  |      |      |  |     |   |    |   |
| AMP            | 5.6/2.8                 |  |      |      |  |     |   |    |   |
| R.P.M. (1/MIN) | 1760                    |  |      |      |  |     |   |    |   |
| FRAME          | 56C                     |  | HZ   | 60   |  | PH  | 3 |    |   |
| SER.F.         | 1.15                    |  | CODE | K    |  | DES | B | CL | F |
| NEMA-NOM-EFF   | 86.5                    |  | PF   | 77   |  |     |   |    |   |
| RATING         | 40C AMB-CONT            |  |      |      |  |     |   |    |   |
| CC             | 010A                    |  |      |      |  |     |   |    |   |
| DE             | 6205                    |  | ODE  | 6205 |  |     |   |    |   |
| ENCL           | TEFC                    |  | SN   |      |  |     |   |    |   |
|                | IE3-87.6(75%) 86.5(50%) |  |      |      |  |     |   |    |   |

## AC Induction Motor Performance Data

Record # 87157

Typical performance - not guaranteed values

| Winding: 35WGG073-R001 |    |              | Type: 3528M                              |                           | Enclosure: TEFC       |              |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|--------------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |              |        |
| Rated Output (HP)      |    | 2            | Full Load Torque                         |                           | 5.99 LB-FT            |              |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line        |              |        |
| Full Load Amps         |    | 5.6/2.8      | Breakdown Torque                         |                           | 20.5 LB-FT            |              |        |
| R.P.M.                 |    | 1760         | Pull-up Torque                           |                           | 13.8 LB-FT            |              |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 15 LB-FT     |        |
| NEMA Design Code       |    | B            | KVA Code                                 | K                         | Starting Current      |              | 22.5 A |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 1.62 A       |        |
| NEMA Nom. Eff.         |    | 86.5         | Power Factor                             | 77                        | Line-line Res. @ 25°C |              | 9.54 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 64°C         |        |
| S.F. Amps              |    | 6.3/3.15     |                                          | Temp. Rise @ S.F. Load    |                       | 77°C         |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 57.9         |        |
|                        |    |              |                                          | Rotor inertia             |                       | 0.202 lb-ft² |        |

## Load Characteristics 460 V, 60 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 76   | 81   | 84   | 80   |
| Efficiency      | 78.3 | 85.3 | 86.9 | 86.5 | 85.3 | 83.6 | 86.1 |
| Speed           | 1791 | 1782 | 1771 | 1760 | 1748 | 1734 | 1754 |
| Line amperes    | 1.71 | 1.97 | 2.34 | 2.82 | 3.36 | 3.97 | 3.13 |

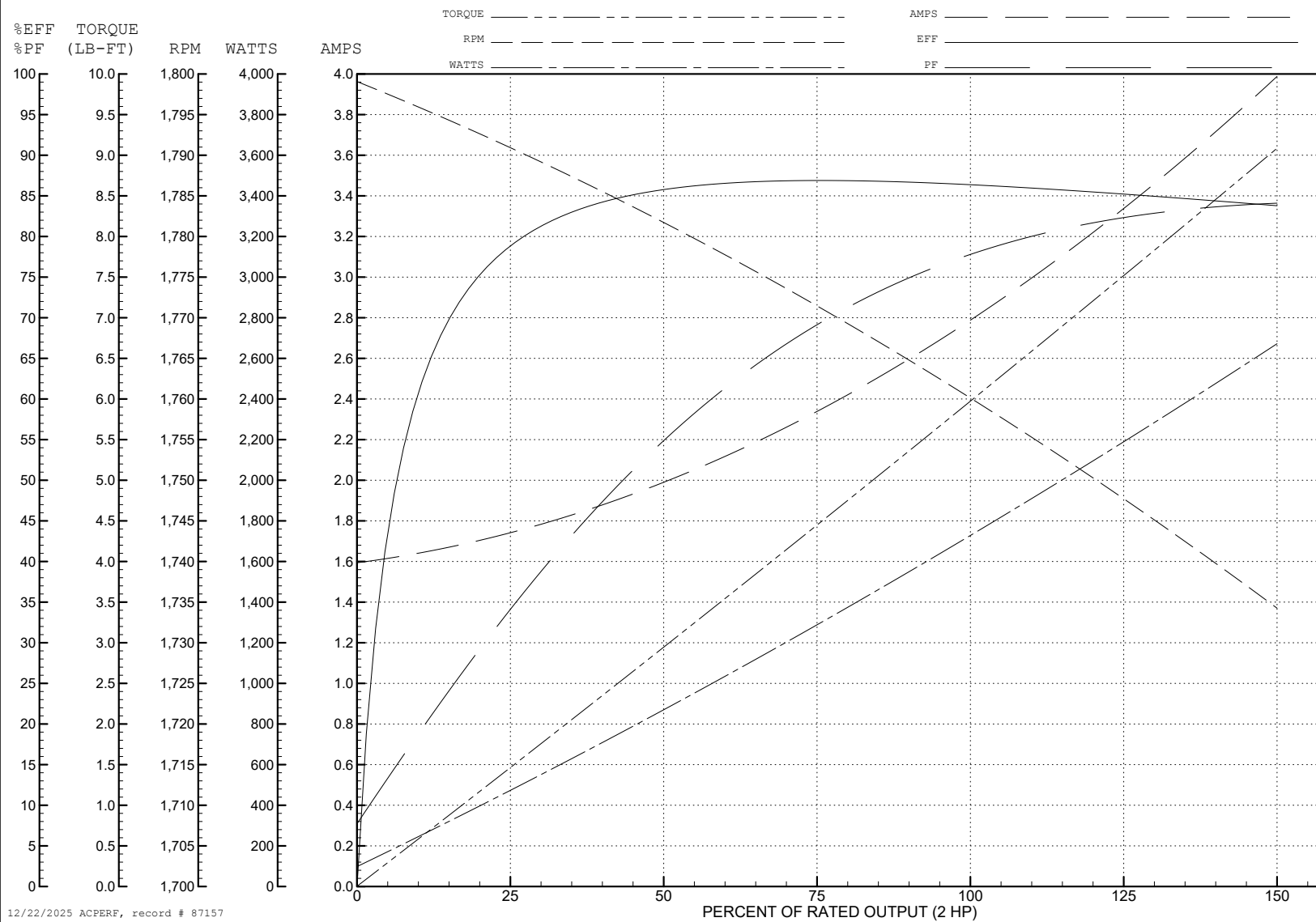
ABB Motors and Mechanical Inc.

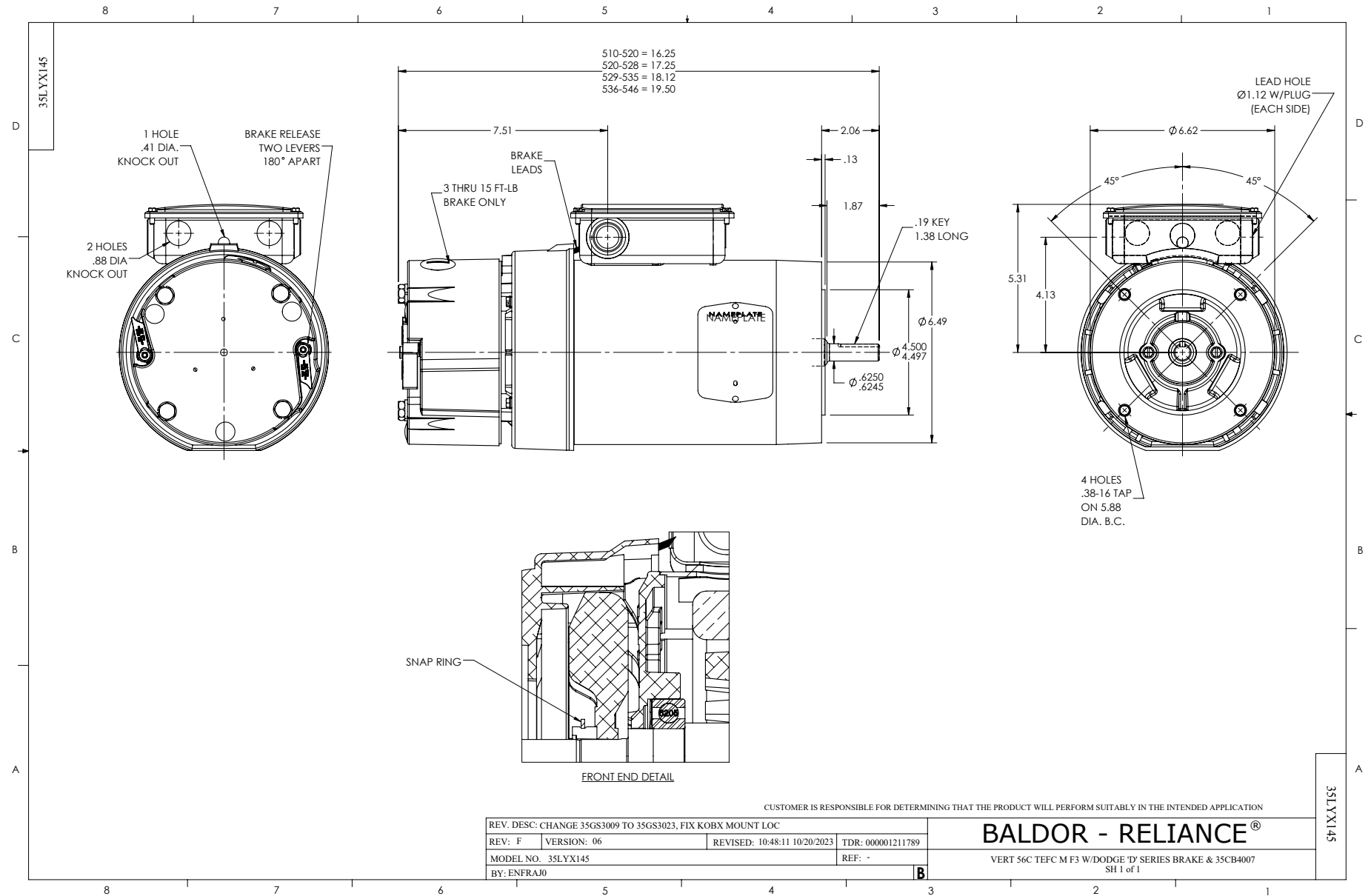
WINDING # 35WGG073

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5







CD2120

## WIRING CONNECTIONS (1 PHASE VAC)

|               | POWER LINE A | POWER LINE B | CAP TOGETHER | CAP ALONE                    |
|---------------|--------------|--------------|--------------|------------------------------|
| AC LOW VOLT.  | B1           | B2           | B3 & B5      | B4                           |
| AC HIGH VOLT. | B1 & B5      | B2           | ---          | B3 CAP ALONE<br>B4 CAP ALONE |
| DC VOLT.      | B1           | B2           | B3 & B5      | B4                           |

B1 WHITE  
 B2 BLACK  
 B3 GRAY  
 B4 BLUE  
 B5 RED

CD2120

REV. DESC: NEW

REV. LTR: -

VERSION: 00

TDR: 000000741785

FILE: \CKA\00037\282

REVISED: 12: 28:11 04/12/2012

MTL: -

BY: CKRONSO

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D-SERIES MOTOR BRAKE 5LD AC\DC

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