

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEWDM3554T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3530M, TENV

Class - None

Division - Not Applicable

**Specifications**

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | TENV                                          |
| Frame                          | 145TC                                         |
| 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             | 1.500 HP @ 60 HZ                              |
| Phase                          | 3                                             |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                              |
| Voltage @ Frequency            | 575.0 V @ 60 HZ                               |
| Agency Approvals               | NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CSA EEV |
| Ambient Temperature            | 40 °C                                         |
| Auxiliary Box                  | NO AUXILLARY BOX                              |
| Auxiliary Box Lead Termination | None                                          |
| Base Indicator                 | Rigid                                         |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                       |
| Blower                         | None                                          |
| Current @ Voltage              | 1.700 A @ 575.0 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                                   |
| Front Shaft Indicator          | None                                          |
| Heater Indicator               | No Heater                                     |
| High Voltage Full Load Amps    | 1.7 a                                         |
| Insulation Class               | F                                             |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 35SS592    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG195   |
| Layout       | 35LYSS592  |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Inverter Code</b>                 | Not Inverter        |
| <b>KVA Code</b>                      | M                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3530M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 13.00 IN            |
| <b>Power Factor</b>                  | 77                  |
| <b>Product Family</b>                | Wash Down           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing      |
| <b>Pulley Face Code</b>              | C-Face              |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 0.875 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger       |
| <b>Speed</b>                         | 1770 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**

| NP1669L      |               |  |      |      |     |   |  |       |   |  |  |
|--------------|---------------|--|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | CEWDM3554T-5  |  |      |      |     |   |  |       |   |  |  |
| SPEC.        | 35SS592G195G1 |  |      |      |     |   |  |       |   |  |  |
| HP           | 1.5           |  |      |      |     |   |  |       |   |  |  |
| VOLTS        | 575           |  |      |      |     |   |  |       |   |  |  |
| AMP          | 1.7           |  |      |      |     |   |  |       |   |  |  |
| RPM          | 1770          |  |      |      |     |   |  |       |   |  |  |
| FRAME        | 145TC         |  | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.15          |  | CODE | M    | DES | B |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 86.5          |  | PF   | 77   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT  |  |      |      |     |   |  |       |   |  |  |
| CC           | 010A          |  |      |      |     |   |  |       |   |  |  |
| DE           | 6205          |  | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | TENV          |  | SN   |      |     |   |  |       |   |  |  |
| BLANK        | SFA 1.9       |  |      |      |     |   |  |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 82087

Typical performance - not guaranteed values

| Winding: 35WGG195-R001 |    |       | Type: 3530M                           |                     | Enclosure: TENV         |             |
|------------------------|----|-------|---------------------------------------|---------------------|-------------------------|-------------|
| Nameplate Data         |    |       | 575 V, 60 Hz:<br>Single Voltage Motor |                     |                         |             |
| Rated Output (HP)      |    | 1.5   | Full Load Torque                      |                     | 4.47 LB-FT              |             |
| Volts                  |    | 575   | Start Configuration                   |                     | direct on line          |             |
| Full Load Amps         |    | 1.7   | Breakdown Torque                      |                     | 20.46 LB-FT             |             |
| R.P.M.                 |    | 1770  | Pull-up Torque                        |                     | 11.93 LB-FT             |             |
| Hz                     | 60 | Phase | 3                                     | Locked-rotor Torque |                         | 14.47 LB-FT |
| NEMA Design Code       |    | B     | KVA Code                              | M                   | Starting Current        |             |
| Service Factor (S.F.)  |    | 1.15  | No-load Current                       |                     | 1 A                     |             |
| NEMA Nom. Eff.         |    | 86.5  | Power Factor                          | 77                  | Line-line Res. @ 25°C   |             |
| Rating - Duty          |    | 40C   | AMB-CONT                              |                     | Temp. Rise @ Rated Load |             |
| S.F. Amps              |    | 1.9   | Temp. Rise @ S.F. Load                |                     | 83°C                    |             |
|                        |    |       | Locked-rotor Power Factor             |                     | 55.3                    |             |
|                        |    |       | Rotor inertia                         |                     | 0.217 lb-ft²            |             |

**Load Characteristics 575 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 34   | 55   | 69   | 77   | 82   | 85   | 80   |
| Efficiency      | 79.3 | 86.4 | 88.4 | 88.3 | 87.7 | 86.5 | 87.9 |
| Speed           | 1790 | 1783 | 1776 | 1768 | 1760 | 1751 | 1763 |
| Line amperes    | 1.05 | 1.19 | 1.4  | 1.66 | 1.96 | 2.3  | 1.84 |

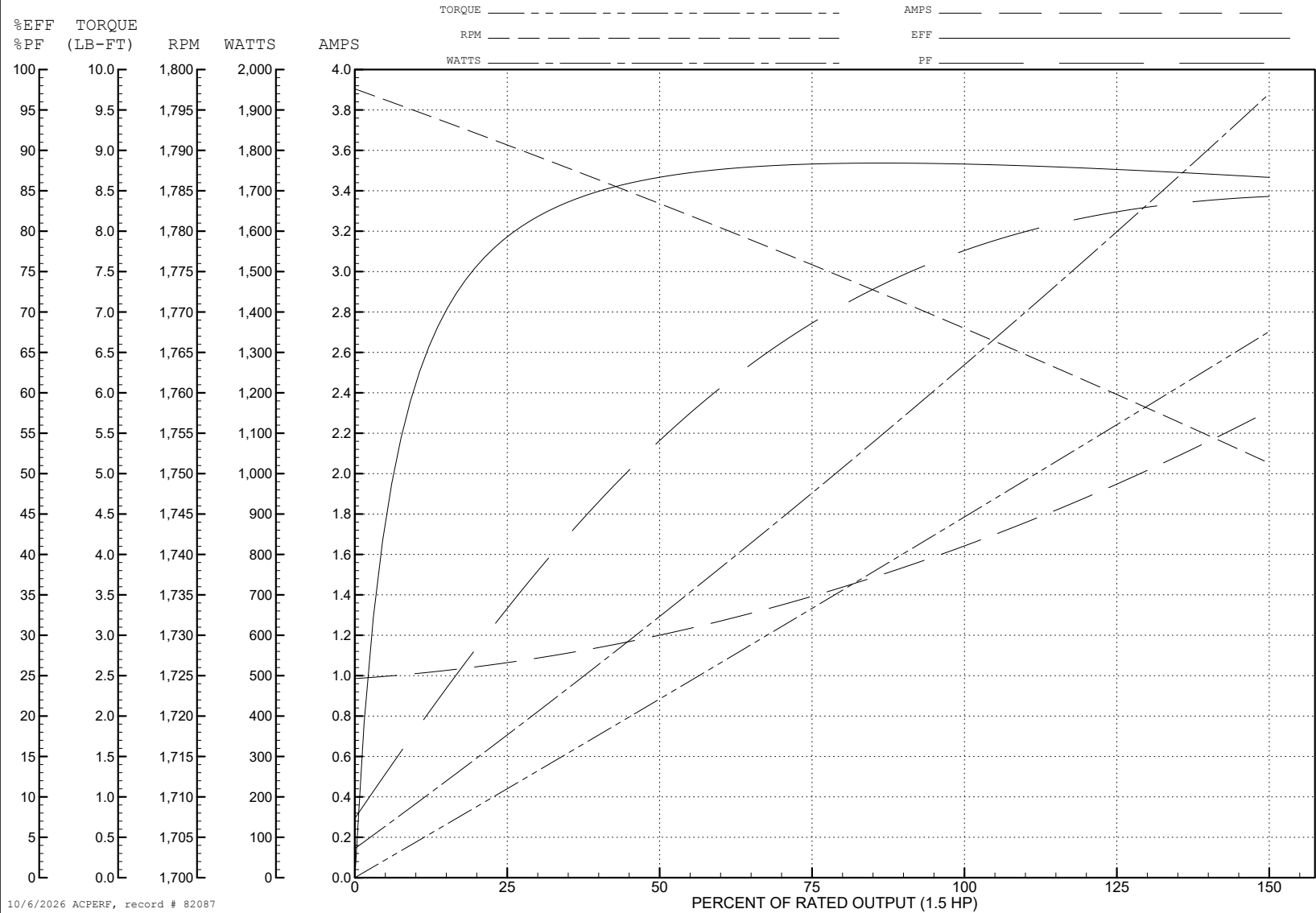
ABB Motors and Mechanical Inc.

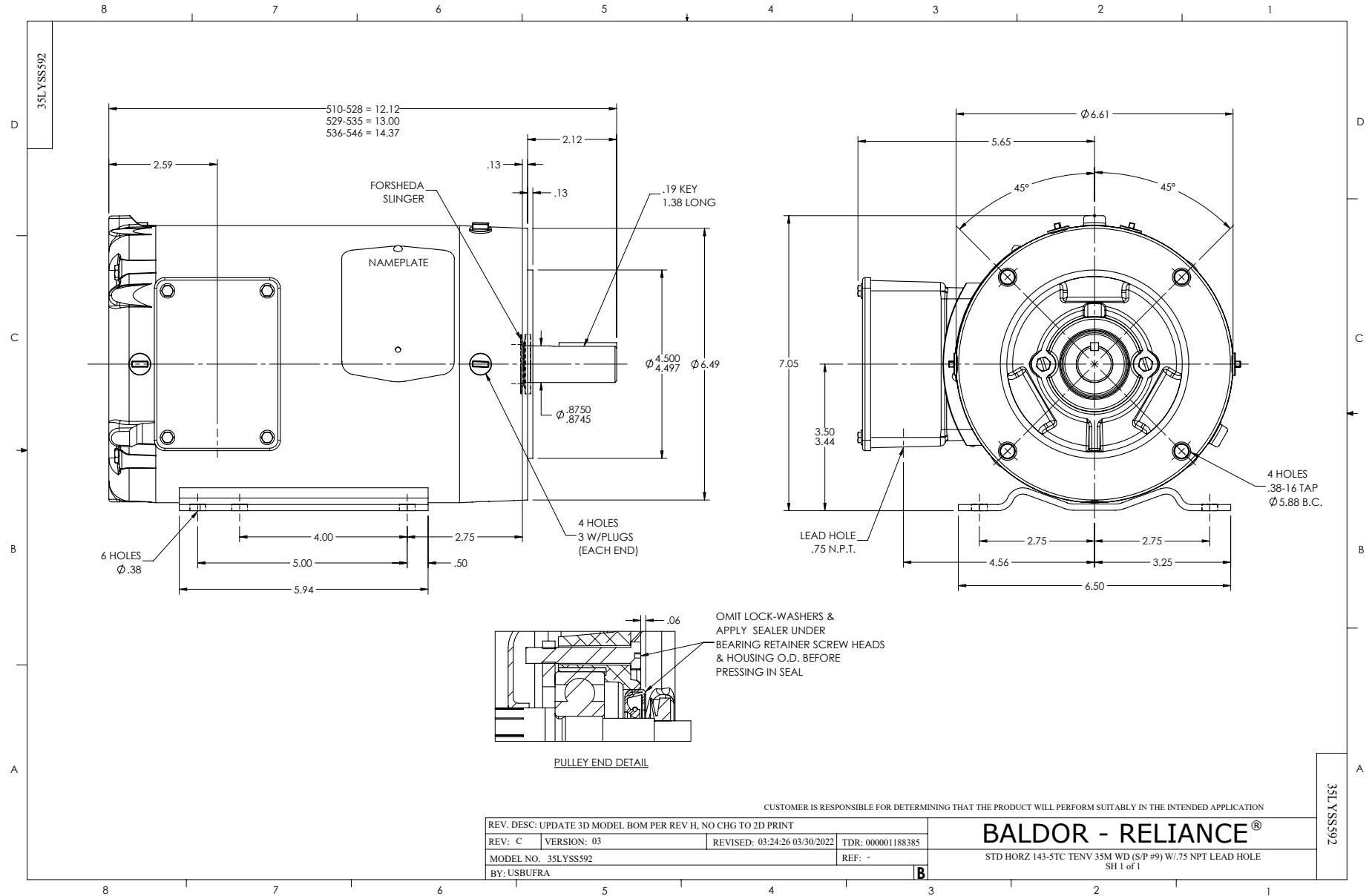
WINDING # 35WGG195

Typical performance - not guaranteed values.

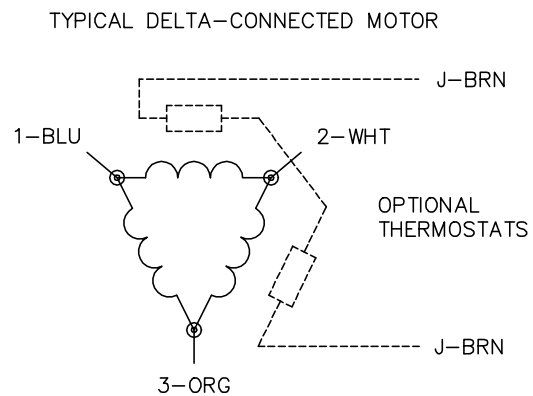
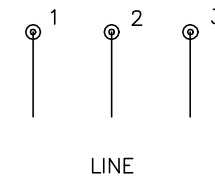
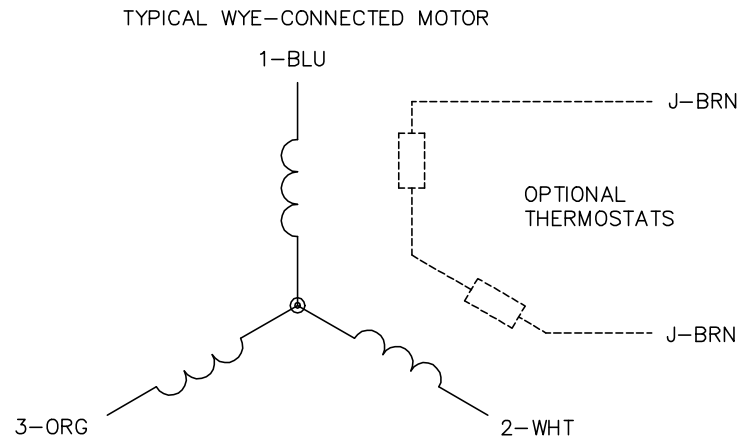
1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3530M

TORQUES (LB-FT): PO=20.46 PU=11.93 LR=14.47 LRA=16.59





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

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