

# ABB BALDOR RELIANCE III

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## Customer information packet

### CWDM3539-H

.5HP, 1175RPM, 3PH, 60HZ, 56HC, 3522M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TENV                                                        |
| <b>Frame</b>                          | 56HC                                                        |
| <b>Frame Material</b>                 | Steel                                                       |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | None                                                        |
| <b>Haz Area Division</b>              | Not Applicable                                              |
| <b>Motor Letter Type</b>              | Three Phase                                                 |
| <b>Output @ Frequency</b>             | .500 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>208.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | C UR US                                                     |
| <b>Ambient Temperature</b>            | 40 °C                                                       |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                            |
| <b>Auxiliary Box Lead Termination</b> | None                                                        |
| <b>Base Indicator</b>                 | Rigid                                                       |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 2.000 A @ 230.0 V<br>2.000 A @ 208.0 V<br>1.000 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 77.0 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |
| <b>High Voltage Full Load Amps</b>    | 1.0 a                                                       |

**Part Detail**

|                     |              |
|---------------------|--------------|
| <b>Revision</b>     | B            |
| <b>Type</b>         | AC           |
| <b>Mech. spec.</b>  | 35E1081      |
| <b>Base</b>         |              |
| <b>Status</b>       | PRD/A        |
| <b>Elec. spec.</b>  | 35WGG337     |
| <b>Layout</b>       | 35LY-000-259 |
| <b>Eff. date</b>    | 10-19-2023   |
| <b>CD Diagram</b>   | CD0005       |
| <b>Poles</b>        | 06           |
| <b>Leads</b>        | 9#18         |
| <b>Proprietary</b>  | False        |
| <b>Created date</b> | 02-23-2023   |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>F</b>                   |
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>      |
| <b>KVA Code</b>                      | <b>M</b>                   |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>      |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 18 AWG</b>          |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>NEMA</b>                |
| <b>Motor Type</b>                    | <b>3522M</b>               |
| <b>Mounting Arrangement</b>          | <b>F1</b>                  |
| <b>Number of Poles</b>               | <b>6</b>                   |
| <b>Overall Length</b>                | <b>11.91 IN</b>            |
| <b>Power Factor</b>                  | <b>57</b>                  |
| <b>Product Family</b>                | <b>Wash Down</b>           |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>      |
| <b>Pulley Face Code</b>              | <b>C-Face</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>            |
| <b>Rodent Screen</b>                 | <b>None</b>                |
| <b>Service Factor</b>                | <b>1.25</b>                |
| <b>Shaft Diameter</b>                | <b>0.625 IN</b>            |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Speed</b>                         | <b>1175 rpm</b>            |
| <b>Speed Code</b>                    | <b>Single Speed</b>        |
| <b>Starting Method</b>               | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                |
| <b>Thermal Device - Winding</b>      | <b>None</b>                |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b> |
| <b>Winding Thermal 1</b>             | <b>None</b>                |
| <b>Winding Thermal 2</b>             | <b>None</b>                |

**Nameplate**

| NP1496L      |              |      |     |     |   |  |       |   |  |  |  |
|--------------|--------------|------|-----|-----|---|--|-------|---|--|--|--|
| CAT.NO.      | CWDM3539-H   |      |     |     |   |  |       |   |  |  |  |
| SPEC.        | 35E1081G337  |      |     |     |   |  |       |   |  |  |  |
| HP           | .5           |      |     |     |   |  |       |   |  |  |  |
| VOLTS        | 208-230/460  |      |     |     |   |  |       |   |  |  |  |
| AMP          | 2/1          |      |     |     |   |  |       |   |  |  |  |
| RPM          | 1175         |      |     |     |   |  |       |   |  |  |  |
| FRAME        | 56HC         |      | HZ  | 60  |   |  | PH    | 3 |  |  |  |
| SER.F.       | 1.25         | CODE | M   | DES | B |  | CLASS | F |  |  |  |
| NEMA-NOM-EFF | 77           | PF   | 57  |     |   |  |       |   |  |  |  |
| RATING       | 40C AMB-CONT |      |     |     |   |  |       |   |  |  |  |
| CC           |              |      |     |     |   |  |       |   |  |  |  |
| DE           | 6205         |      | ODE |     |   |  |       |   |  |  |  |
| ENCL         | TENV         | SN   |     |     |   |  |       |   |  |  |  |
|              | SFA 2.3/1.15 |      |     |     |   |  |       |   |  |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA415017     | SA 35E1081G337                           | 1.000 ea |
| RA406786     | RA 35E1081G337                           | 1.000 ea |
| NS2512A01    | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3008A01G | SPL CONDUIT BOX, MACHINED GRAY           | 1.000 ea |
| 35GS1022A03  | GASKET BOX .125 THK WHITE NEOPRENE       | 1.000 ea |
| 51XB1016A07  | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122D00W | MASTER ODE,203 BRG,.125NPT DRNS(WHITE)   | 1.000 ea |
| HW4072A01    | BLACK DRAIN PLUG FOR .125 NPT            | 3.000 ea |
| HW5100A03    | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3307E00W | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 1.000 ea |
| HW4600B49    | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB | 1.000 ea |
| HW4072A01    | BLACK DRAIN PLUG FOR .125 NPT            | 3.000 ea |
| 12XN1032S20  | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| HW4600B46    | V-RING SLINGER 0.875 X 1.420 X .24 VITON | 1.000 ea |
| 35CB4522     | 35 LIPPED CB LID PRIMED                  | 1.000 ea |
| 35GS1030A02  | 35 GS FOR CB LID - WHITE NEOPRENE        | 1.000 ea |
| 59XW0832S07  | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW2502D13    | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A04    | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| MJ5001A27    | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1164       | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| HA5027A02    | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 ea |
| LB1164       | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| LC0005       | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP1496L      | SS WD UL CC                              | 1.000 ea |
| MN416A01     | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3100S07    | THRUBOLT 10-32 X 8.375 SS                | 4.000 ea |
| MG1025W01    | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.022 ga |

|            |                                        |          |
|------------|----------------------------------------|----------|
| 35PA1066   | PKG GRP, PRINT PK1008A07               | 1.000 ea |
| MG1025Z02  | ACTIVATOR WILKOFAST 060.02HF 55 GALLON | 0.022 ga |
| FE-0000001 | ZRTG FE ASSEMBLY                       | 1.000 ea |
| PE-0000002 | ZRTG PE ASSEMBLY                       | 1.000 ea |

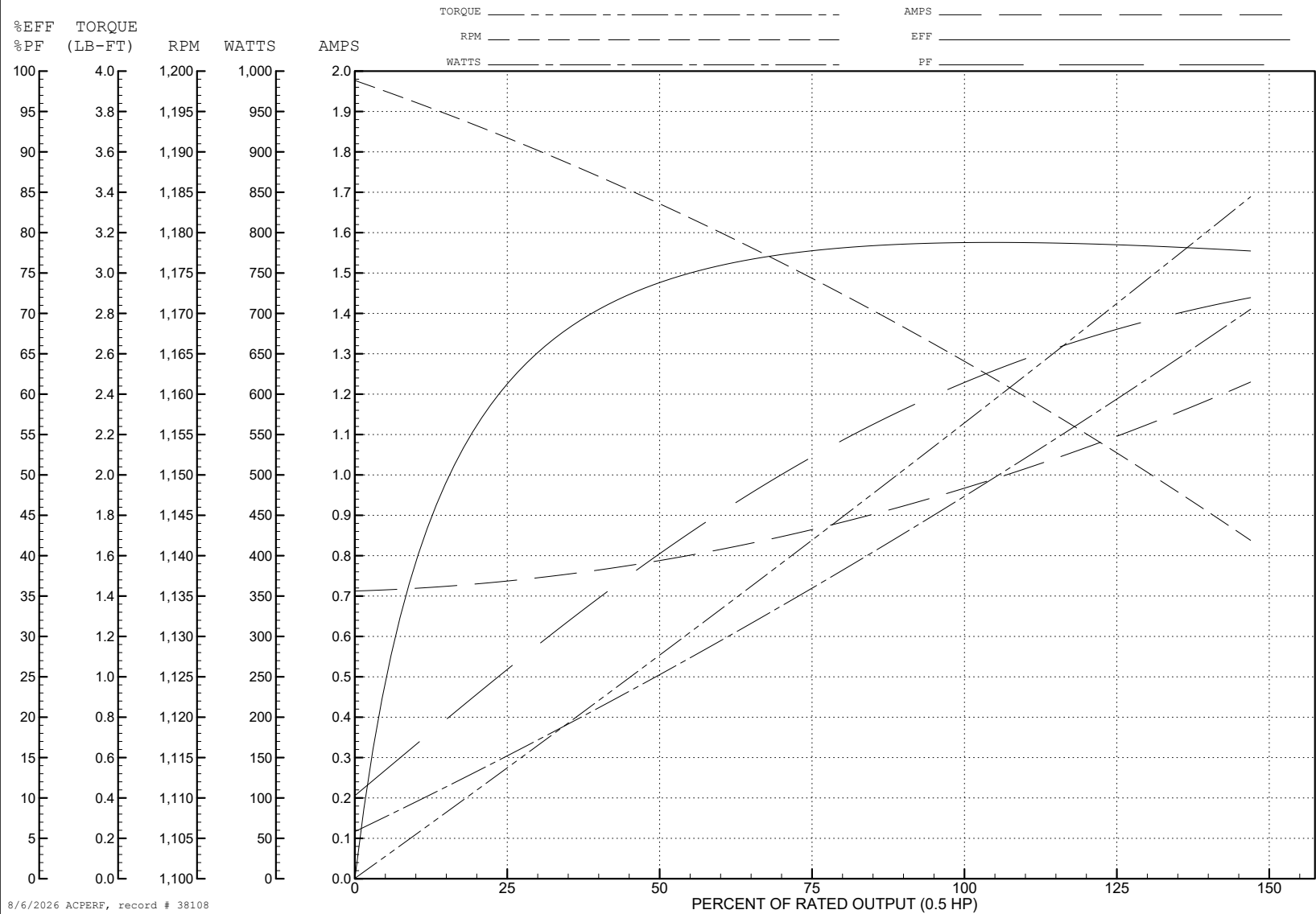
ABB Motors and Mechanical Inc.

WINDING # 35WGN469

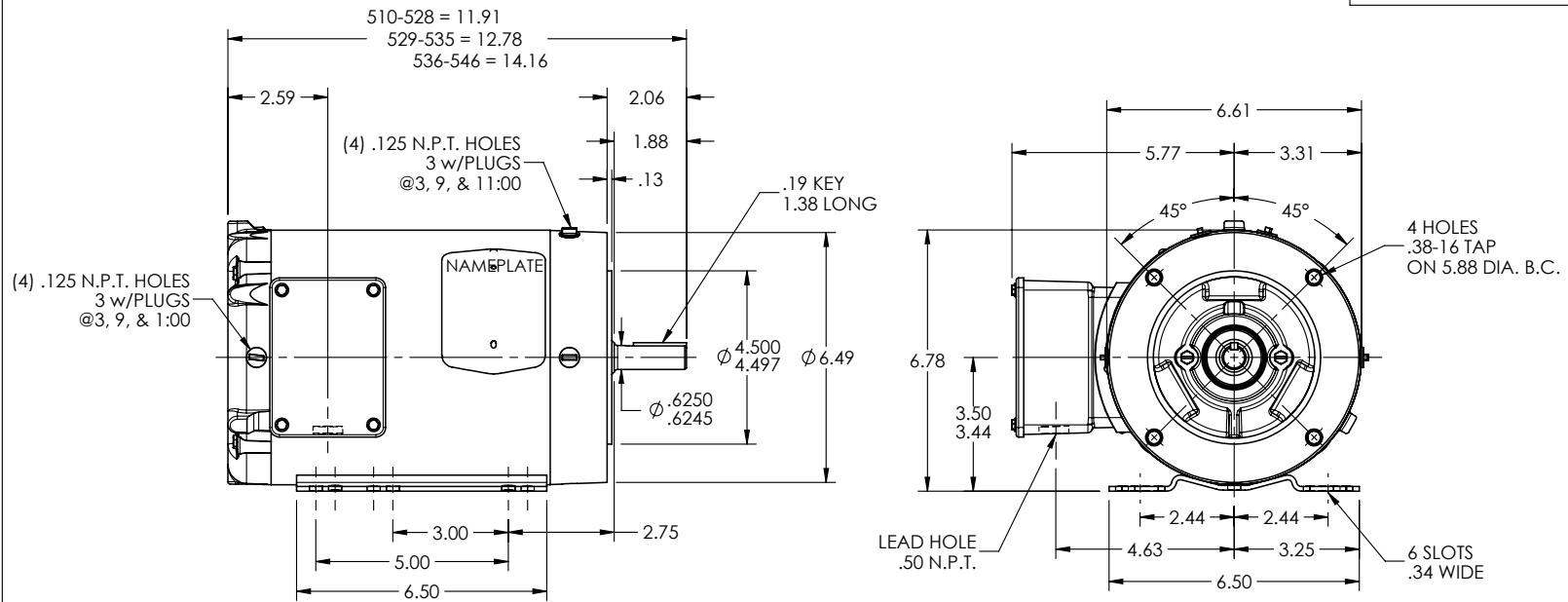
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1165 RPM 460 V 3522M

TORQUES (LB-FT) : PO=7.69 PU=5.09 LR=5.89 LRA=5.68



35LY-000-259



PULLEY END DETAIL

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

REV. DESC: UPDATE MATE ERRORS IN 3D MODEL

|        |             |                              |                   |
|--------|-------------|------------------------------|-------------------|
| REV: A | VERSION: 01 | REVISED: 08:47:50 04/21/2022 | TDR: 000001188385 |
|--------|-------------|------------------------------|-------------------|

657-000-1759

MODEL NO. 35LY-000-259

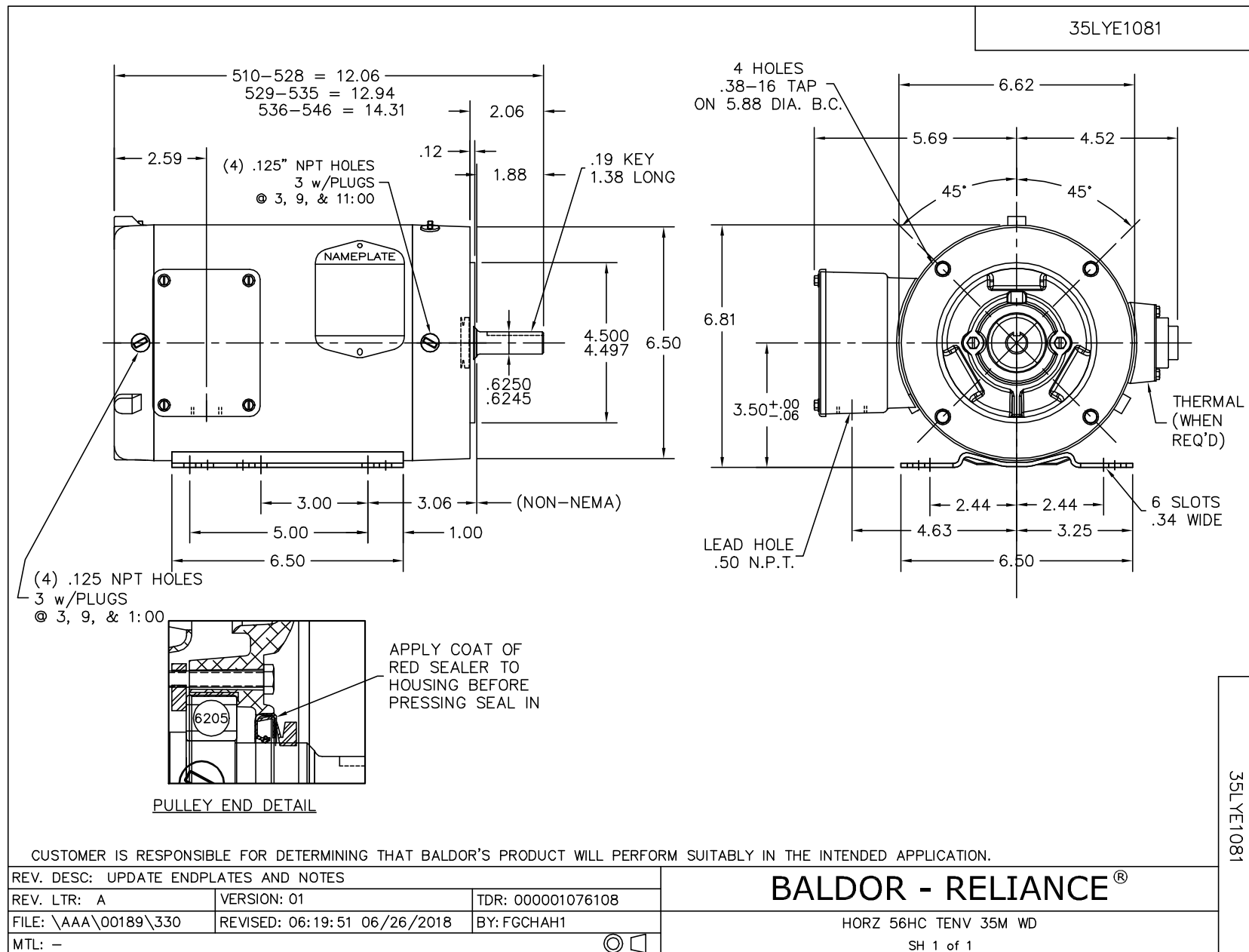
BY: USBUFRA

REF: -

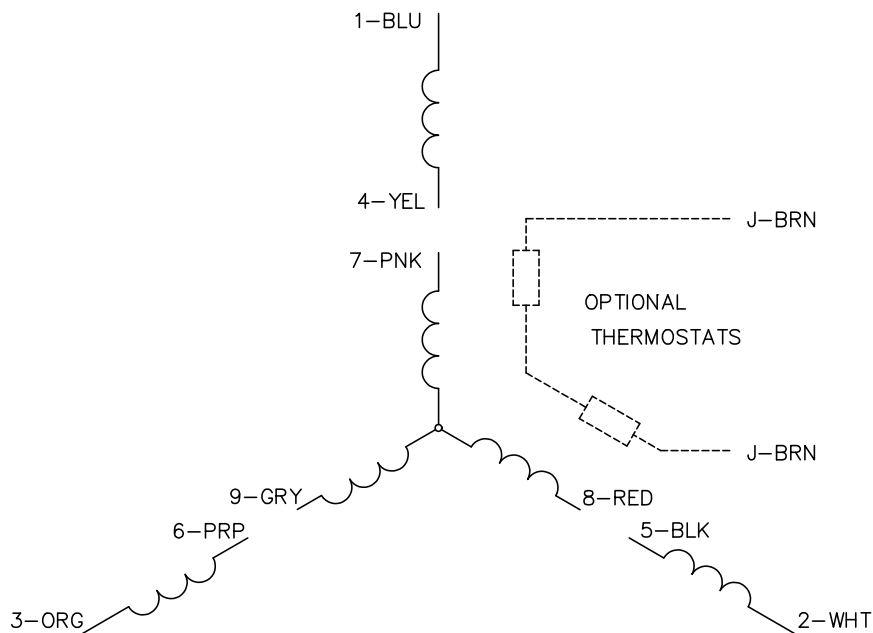
**BALDOR - RELIANCE®**

STD HORZ 56HC TENV 35M WD

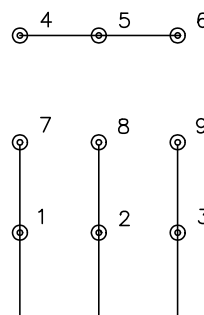
35LY-000-259



CD0005

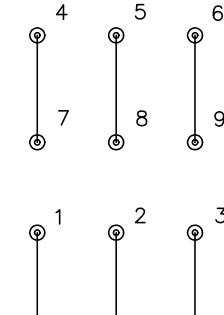


LOW VOLTAGE  
(2Y)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005