ABB BALDOR RELIANCE

# Customer information packet

## EJM3559

3HP, 3450RPM, 3PH, 60HZ, 56J, 3532M, TEFC, F1, N
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56J |
| **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** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | UR |
| **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** | 7.200 A @ 230.0 V |
| | 7.900 A @ 208.0 V |
| | 3.600 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 |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | R |
| **Type** | AC |
| **Mech. spec.** | 35F084 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGQ060 |
| **Layout** | 35LYF084 |
| **Eff. date** | 01-05-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 10-28-2009 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.6 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3532M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.62 IN |
| **Power Factor** | 92 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Ext Thread |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 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 |

**Nameplate**

| NP3441L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJM3559 | | | | | | | | | |
| **SPEC.** | 35F084Q060G1 | | | | | | | | | |
| **HP** | 3 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMP** | 7.2/3.6 | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | |
| **FRAME** | 56J | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | L | **DES** | B | **CL** | F | | | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 92 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA187279 | SA 35F084Q060G1 | 1.000 ea |
| RA175046 | RA 35F084Q060G1 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3007 | 35 CB CASTING W/.88 DIA. LEAD HOLE | 1.000 ea |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| 35EP3122K00 | MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3307G00 | MASTER DE,205 BRG,1.232SH,#26 DRN | 1.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| WD4100A10 | 465 NIAGARA PLUG (SO ELEC),FOR 1.093 DIA | 1.000 ea |
| 35FH4005A55 | IEC FH NO GRSR,3 MTG HOLE NO DIMPLES, | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX | CONDUIT BOX LID KIT **ORDER INDIV PARTS | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| LB1009N | LABEL,ROTATION DIRECTION (ON ROLLS) | 1.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| HA3100A18 | THRUBOLT 10-32 X 9.250 | 4.000 ea |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 ea |
| MG1050Y01 | CELEROL BALDOR GOLD *5 GALLON BUCKET* | 0.017 ga |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP3441L | ALUM SUPER-E VPWM INVERTER READY UL EEV | 1.000 ea |
| 36PA1000 | PKG GRP, PRINT PK1016A08 | 1.000 ea |
| PK3083 | STYROFOAM PACKING CRADLE | 1.000 ea |
| PK3088 | MICROFOAM, 8"X"8 PERF. SHEETS | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 50261
Typical performance - not guaranteed values

| **Winding:** 35WGQ060-R002 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.2/3.6 | **Breakdown Torque** | 18 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 11 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 16 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 33 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.2 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 4.72 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 61°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 76°C |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 62 | 81 | 88 | 92 | 93 | 94 | 93 |
| **Efficiency** | 83.7 | 87.9 | 88.2 | 87.2 | 85.6 | 83.5 | 86.2 |
| **Speed** | 3562 | 3531 | 3498 | 3462 | 3421 | 3375 | 3437 |
| **Line amperes** | 1.5 | 2.1 | 2.8 | 3.6 | 4.5 | 5.4 | 4.1 |

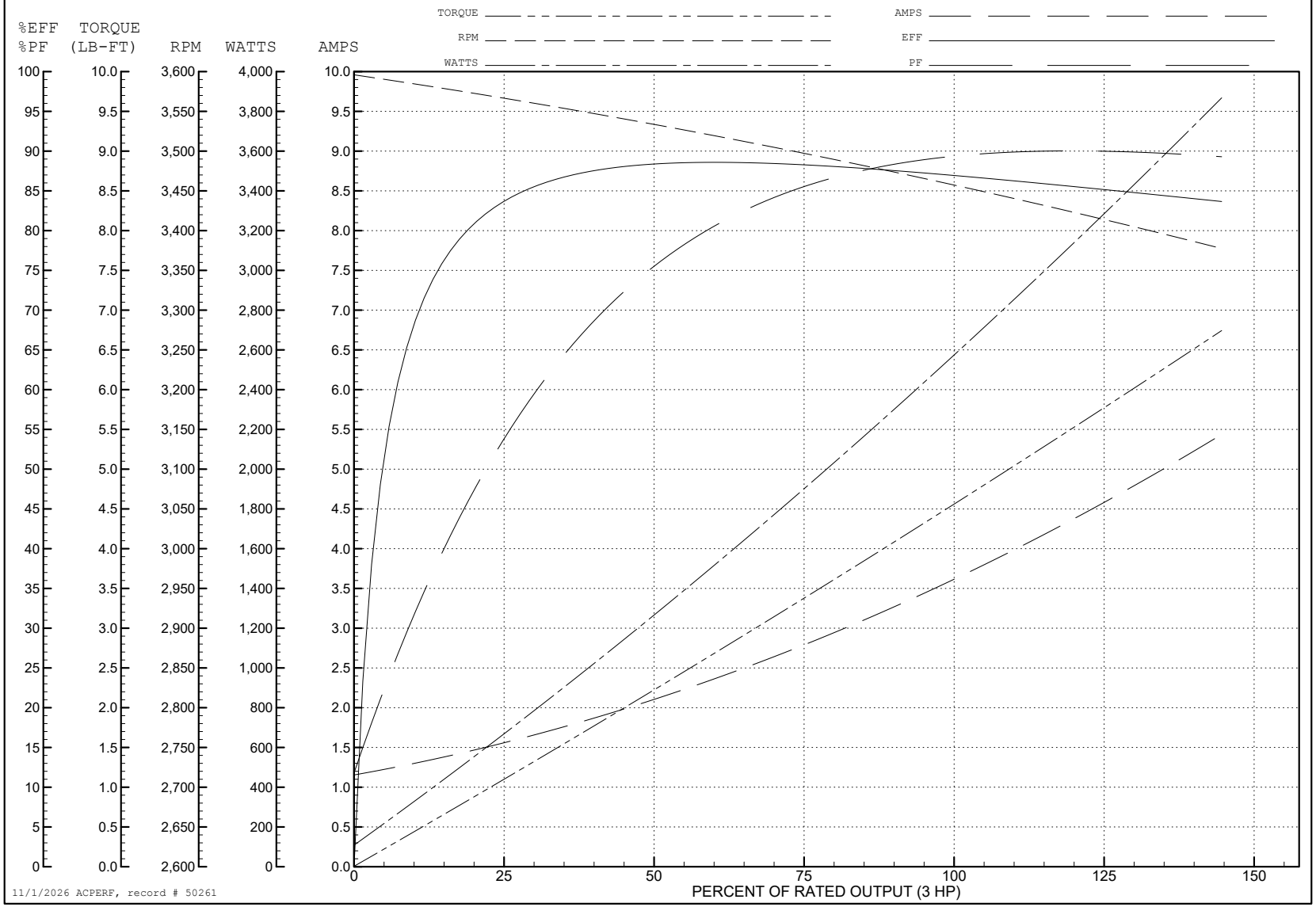
ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=18 PU=11 LR=16 LRA=33



**AC Induction Motor Performance Data**
Record # 59171
Typical performance - not guaranteed values

| **Winding:** 35WGQ060-R002 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.2/3.6 | **Breakdown Torque** | 18 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 11 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 16 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 66 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.4 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 1.17 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 61°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 73°C |
| | | | | **Locked-rotor Power Factor** | 47.1 |
| | | | | **Rotor inertia** | 0.0885 LB-FT2 |

**Load Characteristics 230 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 57 | 77 | 85 | 88 | 89 | 90 | 89 |
| **Efficiency** | 84.1 | 87.9 | 88.4 | 87.2 | 85.7 | 83.5 | 86.3 |
| **Speed** | 3562 | 3531 | 3498 | 3462 | 3421 | 3375 | 3437 |
| **Line amperes** | 3 | 4.2 | 5.6 | 7.2 | 9 | 10.8 | 8.28 |

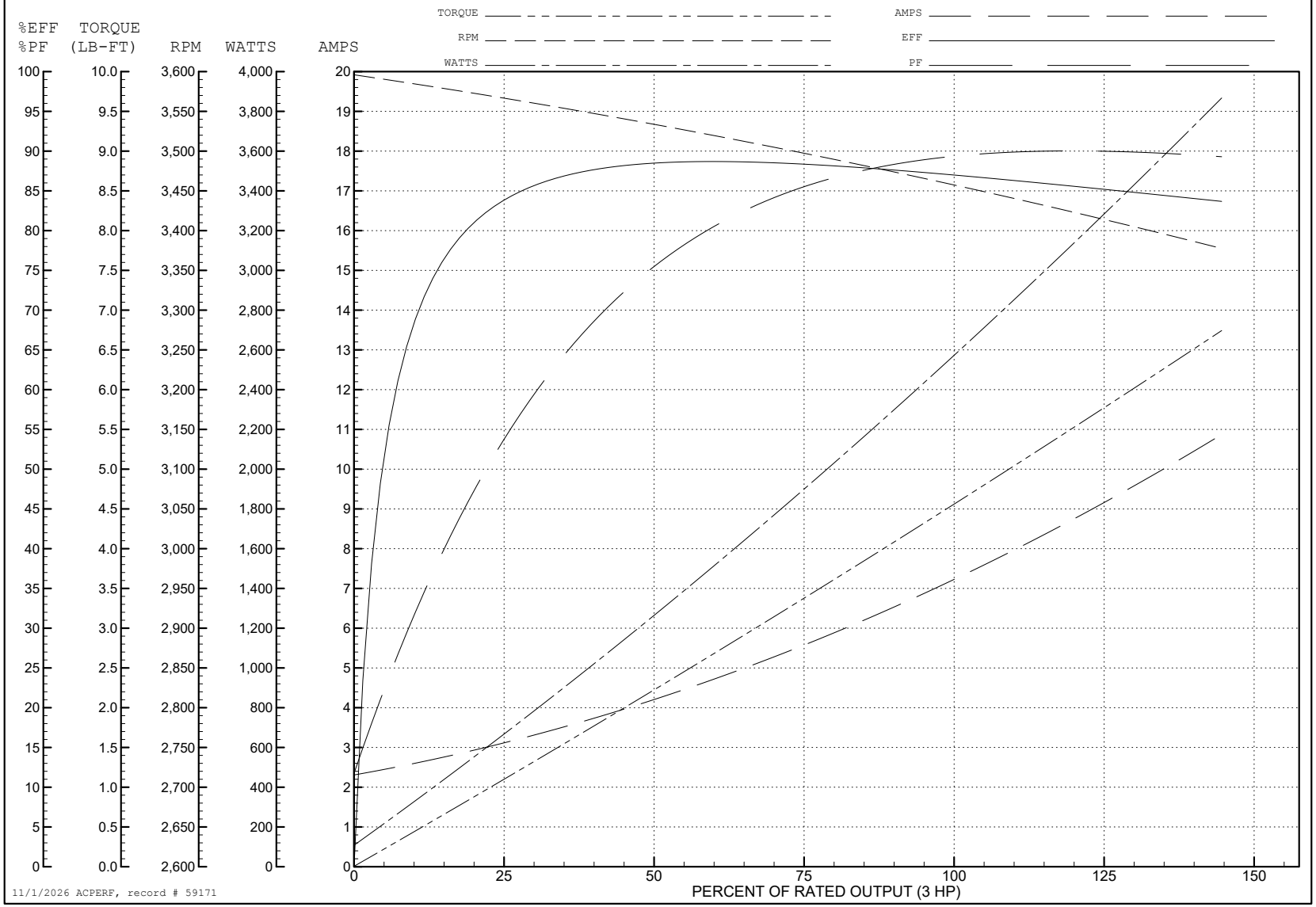
ABB Motors and Mechanical Inc.

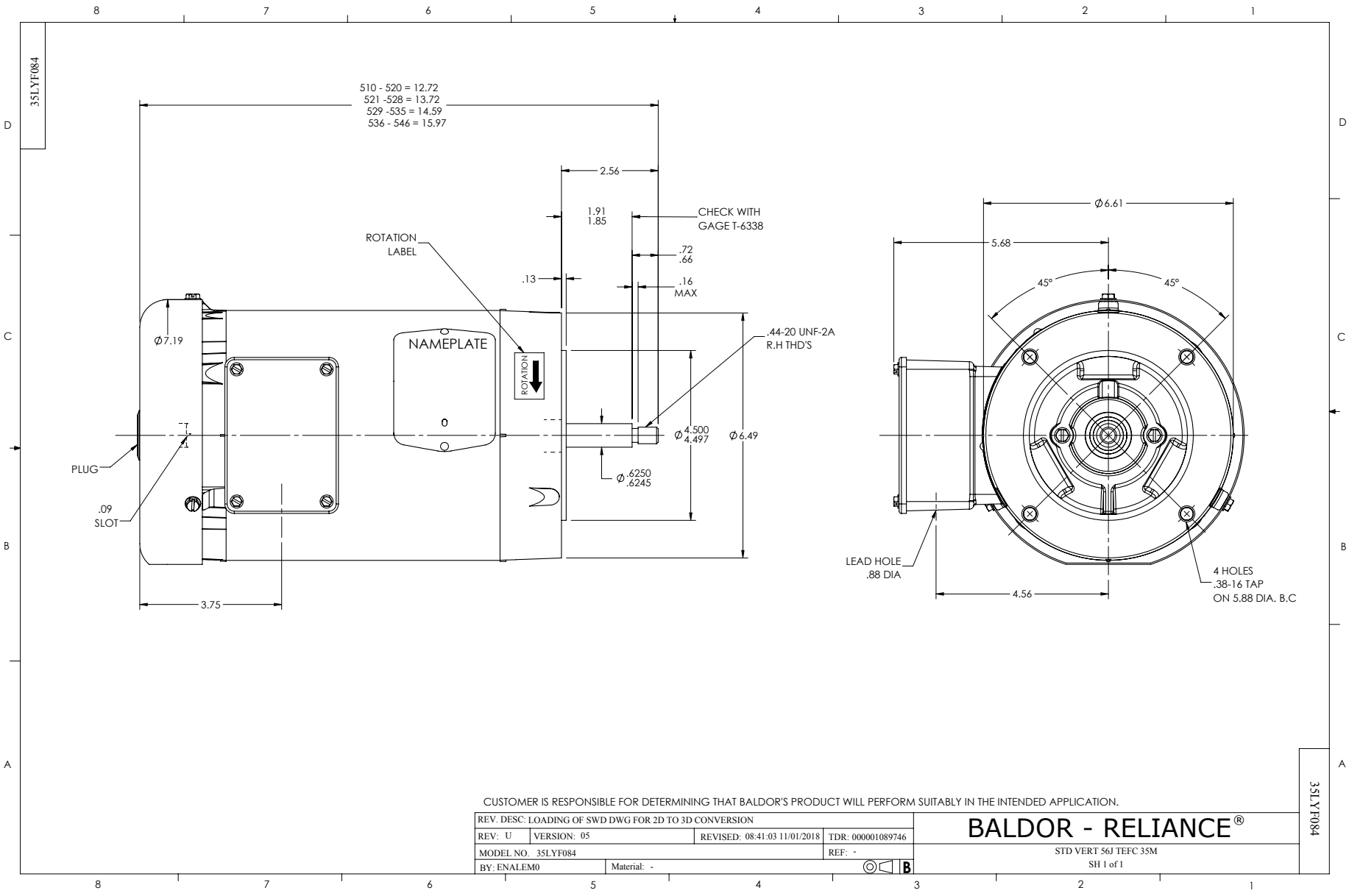
WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 230 V 3532M

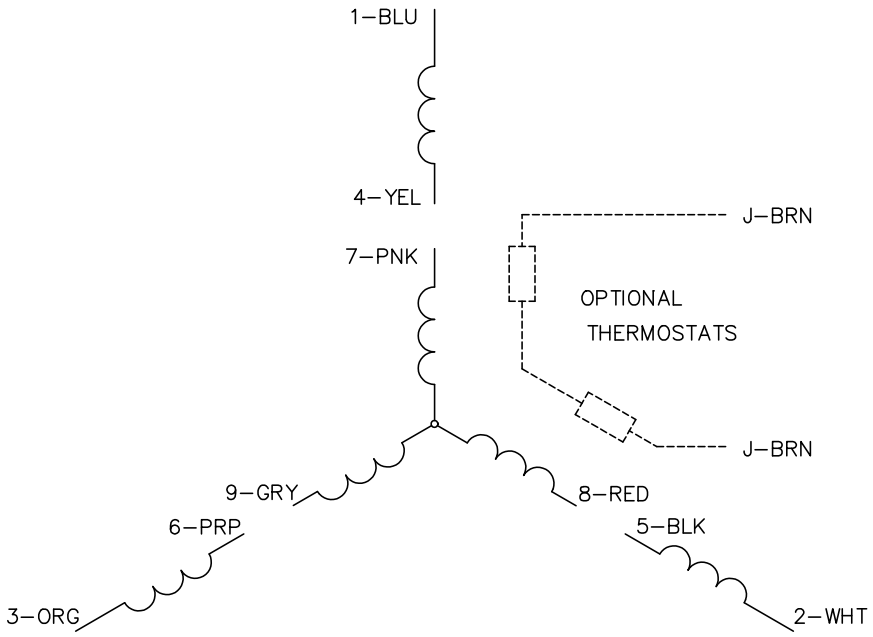
Typical performance - not guaranteed values.

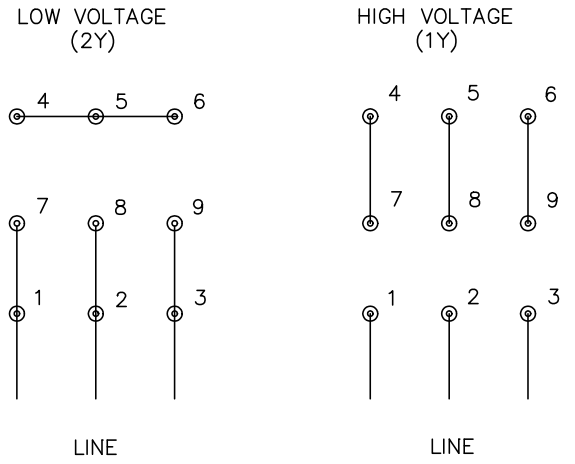
TORQUES(LB-FT): PO=18 PU=11 LR=16 LRA=66




35LYF084
510 - 520 = 12.72
521 -528 = 13.72
529 -535 = 14.59
536 - 546 = 15.97
2.56
1.91
1.85
CHECK WITH
GAGE T-6338
ROTATION
LABEL
.72
.66
.13
.16
MAX
Ø7.19
NAMEPLATE
ROTATION
.44-20 UNF-2A
R.H THD'S
Ø4.500
4.497
Ø6.49
Ø.6250
.6245
PLUG
.09
SLOT
3.75
Ø6.61
5.68
45°
45°
LEAD HOLE
.88 DIA
4.56
4 HOLES
.38-16 TAP
ON 5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION
REV: U
VERSION: 05
REVISED: 08:41:03 11/01/2018
TDR: 000001089746
MODEL NO. 35LYF084
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
STD VERT 56J TEFC 35M
SH 1 of 1
35LYF084

CD0005




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 | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |