

BALDOR® • RELIANCE 

Product Information Packet

IDCSWDM3538

.5HP, 1750RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | T | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 35WGP881 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 35S638 | Layout: | 35LYS638 | Poles: | 04 | Created Date: | 06-13-2008 |
| Base: | RG | Eff. Date: | 06-10-2021 | Leads: | 9#18 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|----------------------|
| Catalog Number: | IDCSWDM3538 | Heater Indicator: | No Heater |
| Enclosure: | TENV | Insulation Class: | H |
| Frame: | 56C | Inverter Code: | Inverter Ready |
| Frame Material: | Stainless Steel | KVA Code: | N |
| Motor Letter Type: | Three Phase | Lifting Lugs: | No Lifting Lugs |
| Output @ Frequency: | .500 HP @ 60 HZ | Locked Bearing Indicator: | Locked Bearing |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG |
| Voltage @ Frequency: | 208.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| | 460.0 V @ 60 HZ | Motor Type: | 3514M |
| XP Class and Group: | None | Mounting Arrangement: | F1 |
| XP Division: | Not Applicable | Power Factor: | 72 |
| Agency Approvals: | UR | Product Family: | Wash Down Paint Free |
| | CSA | Pulley End Bearing Type: | Sealed Bearing |
| Auxillary Box: | No Auxillary Box | Pulley Face Code: | C-Face |
| Auxillary Box Lead Termination: | None | Pulley Shaft Indicator: | Standard |
| Base Indicator: | Rigid | Rodent Screen: | None |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | RoHS Status: | ROHS COMPLIANT |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|----------------------------|
| Blower: | None | Shaft Extension Location: | Pulley End |
| Current @ Voltage: | .800 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 1.600 A @ 230.0 V | Shaft Rotation: | Reversible |
| | 1.700 A @ 208.0 V | Shaft Slinger Indicator: | No Slinger |
| Design Code: | B | Speed Code: | Single Speed |
| Drip Cover: | No Drip Cover | Motor Standards: | NEMA |
| Duty Rating: | CONT | Starting Method: | Direct on line |
| Electrically Isolated Bearing: | Not Electrically Isolated | Thermal Device - Bearing: | None |
| Feedback Device: | NO FEEDBACK | Thermal Device - Winding: | Normally Closed Thermostat |
| Front Face Code: | Standard | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Shaft Indicator: | None | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

| Nameplate NP1608L | |
|-------------------|----------------------|
| CAT NO | IDCSWDM3538 |
| SPEC. | 35S638P881 |
| FRAME | 56C HP .5 TE |
| VOLTS | 208-230/460 |
| MAG CUR | 1/5 FLA 1.7-1.6/.8 |
| RPM | 1750 RPM MAX 6000 |
| HZ | 60 PH 3 CLASS H |
| SER.F. | 1.00 DES B SL HZ 1.7 |
| NEMA-NOM-EFF | 82.5 WK2 0.0827 |
| BLWR V | PH HZ A |
| RATING | 40C AMB-CONT |
| DE BRG | 6205 ODE BRG 6203 |
| CC | SN |

| Parts List | | |
|--------------|--|----------|
| Part Number | Description | Quantity |
| SA174231 | SA 35S638P881 | 1.000 EA |
| RA162375 | RA 35S638P881 | 1.000 EA |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 EA |
| 35CB5001A03 | CONDUIT BOX KIT, FOR SUPER II WASHDOWN | 1.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP3122D00U | MASTER ODE,203 BRG,.125NPT DRNS(BALL BUR | 1.000 EA |
| HW4500S33 | 1/8 NPT STAINLESS #304 SS PLUG | 3.000 EA |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP3307E00U | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 1.000 EA |
| HW4500S33 | 1/8 NPT STAINLESS #304 SS PLUG | 3.000 EA |
| HW4606A02 | JM CLIPPER/SEAL (LWE-0938-1624-AL23) | 1.000 EA |
| 12XN1032S20 | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 EA |
| HA1049A01 | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 2.000 EA |
| HA1049A01 | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 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 |
| MJ5001A02 | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 EA |
| 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 |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 LB |
| HA3100S12 | THRUBOLT 7.625 LENGTH 1.250 TH LENGTH SS | 4.000 EA |
| LC0145B01 | CONNECTION LABEL | 1.000 EA |
| NP1608L | SS WD INV UL CSA CC REV MTG | 1.000 EA |

| Parts List (continued) | | |
|-------------------------------|---|-----------------|
| Part Number | Description | Quantity |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (2100/bx) 4/22 | 1.000 EA |

AC Induction Motor Performance Data

Record # 26876

Typical performance - not guaranteed values

| Winding: 35WGP881-R001 | | Type: 3514M | | Enclosure: TENV | |
|-------------------------------|--------------------------|----------------------------|--|---------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | .5 | Full Load Torque | 1.49 LB-FT | | |
| Volts | 208-230/460 | Start Configuration | direct on line | | |
| Full Load Amps | 1.68-1.54/.77 | Breakdown Torque | 7.12 LB-FT | | |
| R.P.M. | 1755 | Pull-up Torque | 4.05 LB-FT | | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 5.09 LB-FT | |
| NEMA Design Code | B KVA Code | N | Starting Current | 7.1 A | |
| Service Factor (S.F.) | | 1 | No-load Current | 0.538 A | |
| NEMA Nom. Eff. | 82.5 Power Factor | 72 | Line-line Res. @ 25°C | 32.4 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 59°C | |
| | | | Locked-rotor Power Factor | 67 | |
| | | | Rotor inertia | 0.0827 LB-FT ² | |

Load Characteristics 460 V, 60 Hz, 0.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 |
|------------------------|-----------|-----------|-----------|------------|------------|------------|
| Power Factor | 30 | 48 | 62 | 72 | 78 | 84 |
| Efficiency | 68.2 | 79.7 | 82.4 | 83.9 | 83.4 | 82.3 |
| Speed | 1789 | 1778 | 1767 | 1755 | 1743 | 1728 |
| Line amperes | 0.56 | 0.607 | 0.681 | 0.773 | 0.892 | 1.02 |

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

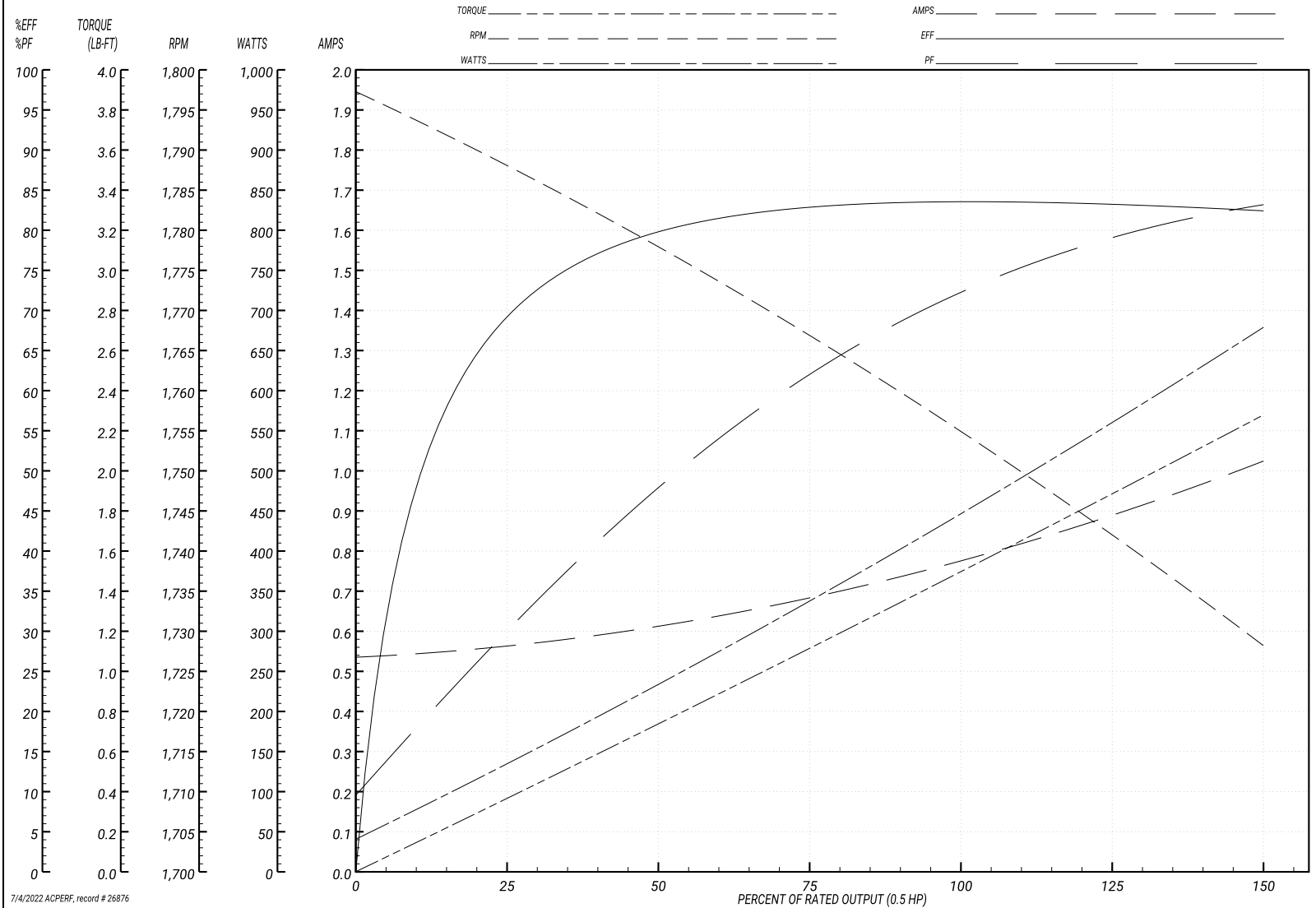
BALDOR ELECTRIC COMPANY

WINDING # 35WGP881

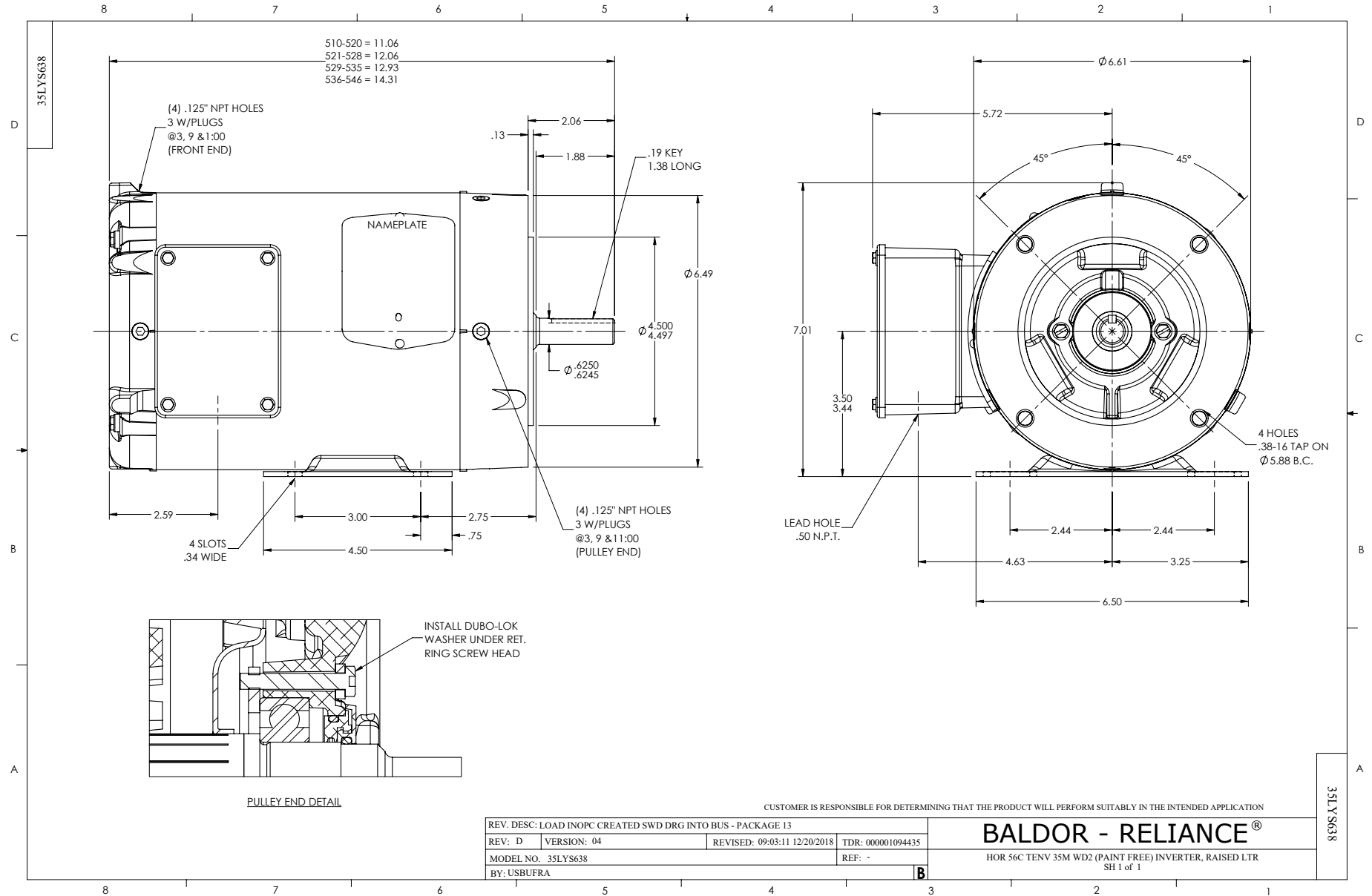
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1755 RPM 460 V 3514M

TORQUES(LB-FT): PO=7.12 PU=4.05 LR=5.09 LRA=7.1



7/4/2022.ACPERF_record # 26876



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

CD0005

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005