

BALDOR® • RELIANCE 

Product Information Packet

ZDNM3584T

1.5HP,1740RPM,3PH,60HZ,145TC,0530M,TENV

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | D | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 05WGX008 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 05E532 | Layout: | 05LYE532 | Poles: | 04 | Created Date: | 07-21-2016 |
| Base: | RG | Eff. Date: | 06-26-2019 | Leads: | 9#18 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number: | ZDNM3584T | Inverter Code: | Inverter Duty |
| Enclosure: | TENV | KVA Code: | L |
| Frame: | 145TC | Lifting Lugs: | Standard Lifting Lugs |
| Frame Material: | Iron | Locked Bearing Indicator: | Locked Bearing |
| Output @ Frequency: | 1.500 HP @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Motor Lead Exit: | Ko Box |
| Voltage @ Frequency: | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| | 460.0 V @ 60 HZ | Motor Type: | 0530M |
| XP Class and Group: | None | Mounting Arrangement: | F1 |
| XP Division: | Not Applicable | Power Factor: | 76 |
| Agency Approvals: | UR | Product Family: | General Purpose |
| | CSA | Pulley End Bearing Type: | Ball |
| 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: | 2.100 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|----------------------------|
| | 4.200 A @ 230.0 V | Shaft Rotation: | Reversible |
| Design Code: | B | Shaft Slinger Indicator: | Shaft Slinger |
| Drip Cover: | No Drip Cover | Speed Code: | Single Speed |
| Duty Rating: | CONT | Motor Standards: | NEMA |
| Electrically Isolated Bearing: | Not Electrically Isolated | Starting Method: | Direct on line |
| Feedback Device: | ENCODER | Thermal Device - Bearing: | None |
| Front Face Code: | Encoder/Feedback Device | Thermal Device - Winding: | Normally Closed Thermostat |
| Front Shaft Indicator: | None | Vibration Sensor Indicator: | No Vibration Sensor |
| Heater Indicator: | No Heater | Winding Thermal 1: | None |
| Insulation Class: | H | Winding Thermal 2: | None |

| Nameplate NP1168L | |
|-------------------|----------------------|
| CAT NO | ZDNM3584T |
| SPEC. | 05E532X008Z1 |
| FRAME | 145TC HP 1.5 TE |
| VOLTS | 230/460 |
| MAG CUR | 2.4/1.2 FLA 4.2/2.1 |
| RPM | 1740 RPM MAX 6000 |
| HZ | 60 PH 3 CLASS H |
| SER.F. | 1.00 DES B SL HZ 1.3 |
| NEMA-NOM-EFF | 86.5 WK2 0.18 |
| BLWR V | PH HZ A |
| RATING | 40C AMB-CONT |
| DE BRG | 6205 ODE BRG 6203 |
| CC | 010A SER.NO |

| Parts List | | |
|-------------|--|----------|
| Part Number | Description | Quantity |
| SA324388 | SA 05E532X008Z1 | 1.000 EA |
| RA312222 | RA 05E532X008Z1 | 1.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| HW3201A05 | 3/8-16 EYEBOLT | 1.000 EA |
| WD1000B16 | T&B CX70TN OR L70P TERMINAL LUG | 1.000 EA |
| 10XN2520A06 | 1/4 20X3/8 HX HD CAP | 2.000 EA |
| 06CB3000 | BALDOR CONDUIT BOX CAST | 1.000 EA |
| 06GS1000 | GASKET,CONDUIT BOX | 1.000 EA |
| 51XW2520A12 | SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75 | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 EA |
| 35EP1100B45 | FRONT TENV 203 BRG W/GRSR & THRU-SHAFT E | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP1329A01 | PU EP ENCL 143-5TC 205 BRG W/GRSR & STD | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 EA |
| HA3100A28 | THRUBOLT 10-32 X 8.187 | 4.000 EA |
| 10XN2520A08 | 1/4-20X1/2 HEX HEAD CAP | 1.000 EA |
| 35FH4801G | THRU-SHAFT ENCODER COVER INV/VECTOR F1 & | 1.000 EA |
| 10XN2520A08 | 1/4-20X1/2 HEX HEAD CAP | 4.000 EA |
| 06CB3500 | BALDOR CONDUIT BOX LID | 1.000 EA |
| 06GS1001 | BALDOR CONDUIT BOX GASKET | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 2.000 EA |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 EA |
| HA1005A05SP | SLINGER, OD 1.50, ID .659, 203 BRG | 1.000 EA |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 EA |
| MJ5004A05 | #242-21 LOCTITE GENERAL PURPOSE MED. STR | 0.005 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |
| OE5011A05SP | HS25 ENCODER ASSY - TENV | 1.000 EA |
| MG1000G27 | MED CHARCOAL METALLIC GREY 400-0096 | 0.022 GA |
| LB1119N | WARNING LABEL | 1.000 EA |
| LC0145B01 | CONNECTION LABEL | 1.000 EA |
| NP1168L | ALUM VEC UL CSA CC | 1.000 EA |
| 36PA1000 | PKG GRP, PRINT PK1016A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |

AC Induction Motor Performance Data

Record # 58362 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 05WGX008-R036 | Type: 0530M | Enclosure: TENV |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|--------------------------|
| Rated Output (HP) | 1.5 | | | Full Load Torque | 4.54 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 4.2/2.1 | | | Breakdown Torque | 19 LB-FT |
| R.P.M. | 1740 | | | Pull-up Torque | 9.1 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 13.7 LB-FT |
| NEMA Design Code | B | KVA Code | L | Starting Current | 18.5 A |
| Service Factor (S.F.) | 1 | | | No-load Current | 1.2 A |
| NEMA Nom. Eff. | 86.5 | Power Factor | 76 | Line-line Res. @ 25°C | 9.17 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 66°C |
| | | | | Locked-rotor Power Factor | 47.8 |
| | | | | Rotor inertia | 0.177 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 1.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 |
|-----------------|------|------|------|------|------|------|
| Power Factor | 35 | 55 | 68 | 76 | 81 | 85 |
| Efficiency | 79.8 | 86.1 | 87.4 | 87.3 | 86.4 | 85.2 |
| Speed | 1776 | 1765 | 1755 | 1743 | 1730 | 1716 |
| Line amperes | 1.28 | 1.5 | 1.78 | 2.12 | 2.52 | 2.92 |

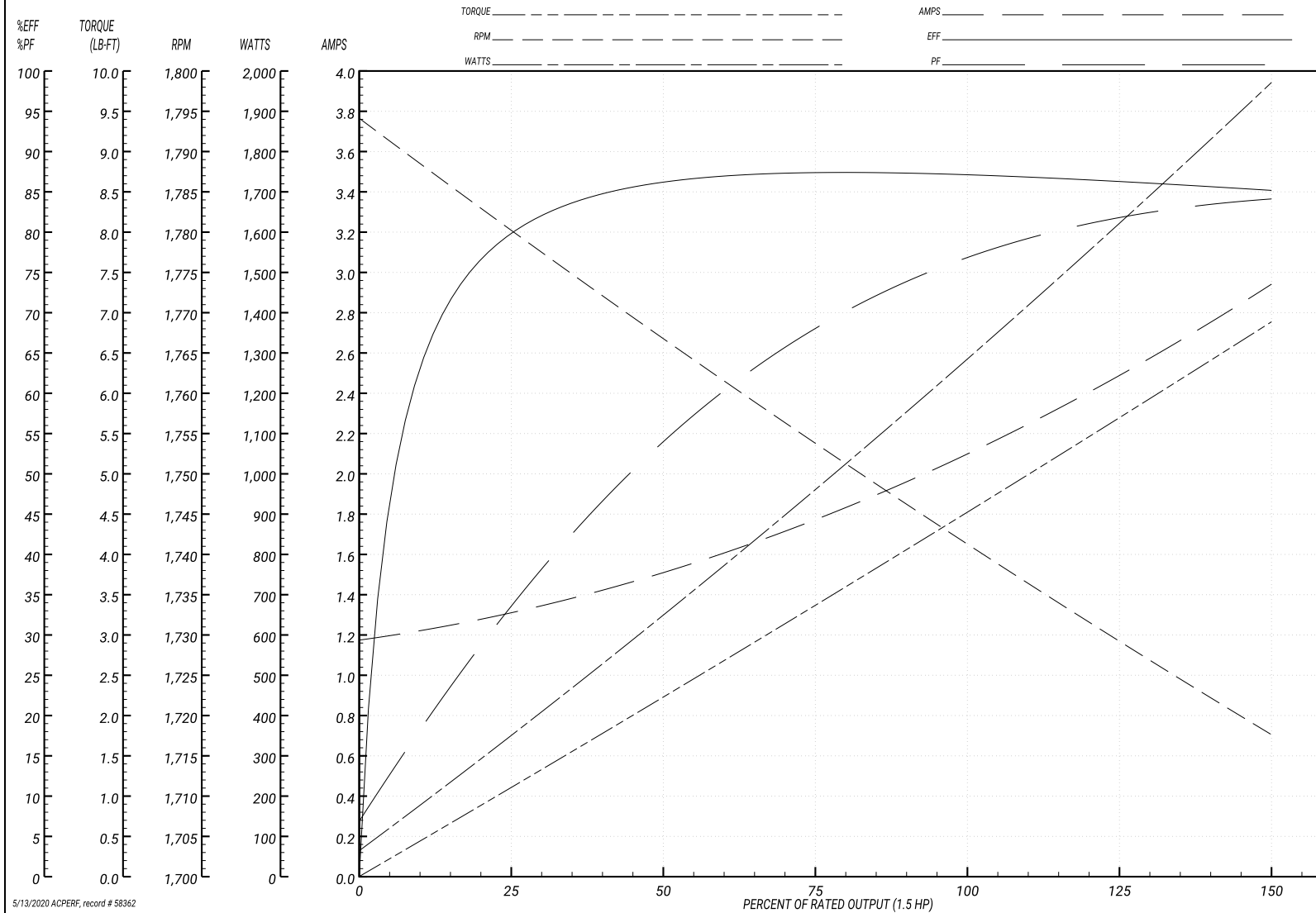
Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 05WGX008

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1740 RPM 460 V 0530M
 TORQUES(LB-FT): PO=19 PU=9.1 LR=13.7 LRA=18.5



5/13/2020 ACPERF, record # 58362

CD0005

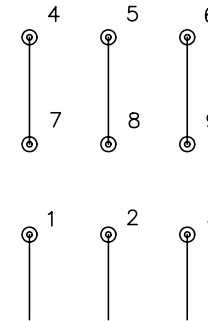


LOW VOLTAGE
(2Y)



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

900003

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005