

BALDOR® • RELIANCE 

Product Information Packet

VECP2332T

10HP, 1180RPM, 3PH, 60HZ, 256TC, 0960M, TEFC, F

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | AK | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 09WGX826 | CD Diagram: | CD0180 | Mfg Plant: | |
| Mech. Spec: | 09H181 | Layout: | 09LYH181 | Poles: | 06 | Created Date: | 10-15-2006 |
| Base: | N | Eff. Date: | 04-01-2020 | Leads: | 9#12 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------------|
| Catalog Number: | VECP2332T | Heater Indicator: | No Heater |
| Enclosure: | TEFC | Insulation Class: | F |
| Frame: | 256TC | Inverter Code: | Inverter Duty |
| Frame Material: | Iron | KVA Code: | J |
| Output @ Frequency: | 10.000 HP @ 60 HZ | Lifting Lugs: | Standard Lifting Lugs |
| Synchronous Speed @ Frequency: | 1200 RPM @ 60 HZ | Locked Bearing Indicator: | Locked Bearing |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 12 AWG |
| | 230.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| XP Class and Group: | Universal | Motor Lead Termination: | Flying Leads |
| XP Division: | Division II | Motor Type: | 0960M |
| Agency Approvals: | UR | Mounting Arrangement: | F1 |
| | CSA EEV | Power Factor: | 72 |
| | CSA | Product Family: | Super-E Chemical Processing |
| Auxillary Box: | No Auxillary Box | Pulley End Bearing Type: | Ball |
| Auxillary Box Lead Termination: | None | Pulley Face Code: | C-Face |
| Base Indicator: | No Mounting | Pulley Shaft Indicator: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Rodent Screen: | None |
| Blower: | None | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Constant Torque Speed Range: | 1.0 | Shaft Ground Indicator: | No Shaft Grounding |
| Current @ Voltage: | 14.200 A @ 460.0 V | Shaft Rotation: | Reversible |
| | 28.400 A @ 230.0 V | Shaft Slinger Indicator: | Shaft Slinger |
| | 30.000 A @ 208.0 V | Speed Code: | Single Speed |
| Design Code: | A | Motor Standards: | NEMA |
| Drip Cover: | Drip Cover | Starting Method: | Direct on line |
| Duty Rating: | CONT | Thermal Device - Bearing: | None |
| Electrically Isolated Bearing: | Not Electrically Isolated | Thermal Device - Winding: | None |
| Feedback Device: | NO FEEDBACK | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Face Code: | Standard | Winding Thermal 1: | None |
| Front Shaft Indicator: | None | Winding Thermal 2: | None |
| | | XP Temp Code: | T3C |

| Nameplate NP3995ABEL | | | | | | | | | | | |
|--|----------|--------------|---------------------|-----------------------|-------------|---------------------------|--------------|-------------|-----------|--------------|---------------|
| CAT # VECP2332T | | | SER | | | CC 010A | | | | | |
| SPEC 09H181X826 | | | RATING 40C AMB-CONT | | | | | | | | |
| HZ | VOLTS | | AMPS | | RPM | HP | CODE | SF | DES | PF | NEMA NOM. EFF |
| 60 | 230/460 | | 28.4/14.2 | | 1180 | 10 | J | 1.15 | A | 72 % | 91 % |
| | | | | | | | | | | % | % |
| PH 3 | CL F | MAX RPM 1800 | | MAX CORR KVAR 5.21 | | USABLE AT 208V 30 | | | | | |
| IP 55 | FR 256TC | | ENCL TEFC | | DE BRG 6309 | | ODE BRG 6309 | | | | |
| GREASE POLYREX EM | | | | | | MTR WT 356 | | LBS | | | |
| USABLE AT 50HZ 7.5HP 190/380V 26.4/13.2A | | | | | | SF1.0 | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CL I DIV 2 GRPS A,B,C,D | | | | CL I ZONE 2 GRPS | | | | IIA,IIB,IIC | | TEMP T 160 C | |
| 1.0 SF ON PWM INVERTER | | POWER | | INV TEMP CL 180 | | C | | | | | |
| CHP 60-90 | HZ 1.5:1 | | CT 1.0-60 | | HZ 60:1 | | VT 0-60 | | HZ 1000:1 | | |
| SPACE HEATER LEADS H1-H2: | | | | | | TIE LIKE NUMBERS TOGETHER | | | | | |
| V | A | W | | MAX SPACE HEATER TEMP | | | | | | | |

| Parts List | | |
|---------------|--|----------|
| Part Number | Description | Quantity |
| SA150632 | SA 09H181X826 | 1.000 EA |
| RA139498 | RA 09H181X826 | 1.000 EA |
| 09FN3001D01SP | EXTERNAL FAN, PLASTIC | 1.000 EA |
| 09CB1002A12P | KOBS W/1.25 NPT LEAD HOLE & 2.38 MTG HOL | 1.000 EA |
| 09GS1010 | GASKET, DWG, LEADWIRE SEPERATOR | 1.000 EA |
| 10XN2520K12 | 1/4-20 X.75 GRD 5 | 4.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| WD1000B17 | T&B CX35TN OR L35P TERMINAL LUG | 1.000 EA |
| 10XN2520K08 | 1/4-20 X .50 GRADE #5, STL, ZINC PLATE | 1.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 1.000 EA |
| HA3400A39 | STUD- 3/8-16 X 6.44 OAL HEX | 4.000 EA |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| HA4017A08 | .125X3.50 GREASER EXTEN. | 1.000 EA |
| HA4017A02 | .125X2.50 GREASER EXTENS.F/S | 1.000 EA |
| HW4019A01 | PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING | 1.000 EA |
| HW5100A11 | W3917-042 WVY WSHR (WB) | 1.000 EA |
| 10XN2520K28 | 1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P | 2.000 EA |
| 09EP1300A12P | ENDPLATE, MACH EPOXY PRIMER | 1.000 EA |
| 10XN3816K24 | 3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5 | 4.000 EA |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 10XN2520K36 | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 EA |
| 09FH1000A03P | FAN HOUSING, MACH W/EPOXY PRIMER | 1.000 EA |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| XY3816A12 | 3/8-16 FINISHED NUT | 4.000 EA |

| Parts List (continued) | | |
|------------------------|--|----------|
| Part Number | Description | Quantity |
| 09FH1500A01P | DRIP COVER, MACH W/EPOXY PRIMER | 1.000 EA |
| 10XN2520K26 | 1/4-20X 1 5/8 HEX HD, GRADE 5 | 4.000 EA |
| HW4600B44 | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 EA |
| HW4600B67 | V-RING SLINGER 1.770 X 2.170 X .28 VITON | 1.000 EA |
| 12CB1503P | CONDUIT BOX LID, CAST W/EPOXY PRIMER | 1.000 EA |
| 12GS1002 | GASKET, CONDUIT BOX LID, NEOP | 1.000 EA |
| 10XN3118K16 | 5/16-18 X 1' GRADE #5, STL, ZINC PLATE | 2.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 2.000 EA |
| HW2501G25 | KEY, 3/8 SQ X 2.875 | 1.000 EA |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.031 QT |
| MJ5001A14 | DYNAPRO SEALANT, CP MTR VC#2508050 (603 | 0.023 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| PK6014 | STEEL STRAP FOR 309-312 BASELESS MOTORS | 3.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |
| 19XW3118A08 | .31-18 X .50 HEX WASHER HEAD TAPTITE II | 3.000 EA |
| 09EP1118A05GP6 | FREP MACH, 309 BRG. EPOXY PRIMER | 1.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |
| HW4500A21 | 1618BALEMITE FITTING 825 UNIVERSAL | 1.000 EA |
| HA4054 | SHORT T-DRAIN FITTING, .125" N.P.T. | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| HW2500A25 | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 EA |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.080 LB |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |

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| | | |
|-------------|--|----------|
| HA4054 | SHORT T-DRAIN FITTING, .125" N.P.T. | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| 51XB1214A20 | 12-14X1.25 HXWSSLD SERTYB | 1.000 EA |
| MG1025N19 | WILKOFAST, 778.50, RELIANCE BLUE-GREEN | 0.050 GA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 4.000 EA |
| NP3995ABEL | SS SUPER-E SD XEX CLI DIV2 UR CSA-C-US E | 1.000 EA |
| 40PA1024 | PKGP WOOD BASE, RISER SIDE LIFT GRUNDFOS | 1.000 EA |

AC Induction Motor Performance Data

Record # 47262 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 09WGX826-R026 | Type: 0960M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|-------------------------|
| Rated Output (HP) | 10 | | | Full Load Torque | 44.4 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 28.4/14.2 | | | Breakdown Torque | 144 LB-FT |
| R.P.M. | 1180 | | | Pull-up Torque | 54.6 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 75 LB-FT |
| NEMA Design Code | A | KVA Code | J | Starting Current | 93 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 7.15 A |
| NEMA Nom. Eff. | 91 | Power Factor | 72 | Line-line Res. @ 25°C | 0.676 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 44°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 58°C |
| | | | | Locked-rotor Power Factor | 24.9 |
| | | | | Rotor inertia | 4.82 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 10 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|-------|------|-------|-------|-------|
| Power Factor | 35 | 55 | 66 | 72 | 74 | 76 | 73 |
| Efficiency | 84.4 | 90.2 | 91.6 | 91.6 | 91.2 | 90.3 | 91.4 |
| Speed | 1196 | 1191 | 1186 | 1181 | 1175 | 1168 | 1177 |
| Line amperes | 8 | 9.39 | 11.57 | 14.2 | 17.24 | 20.55 | 16.02 |

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

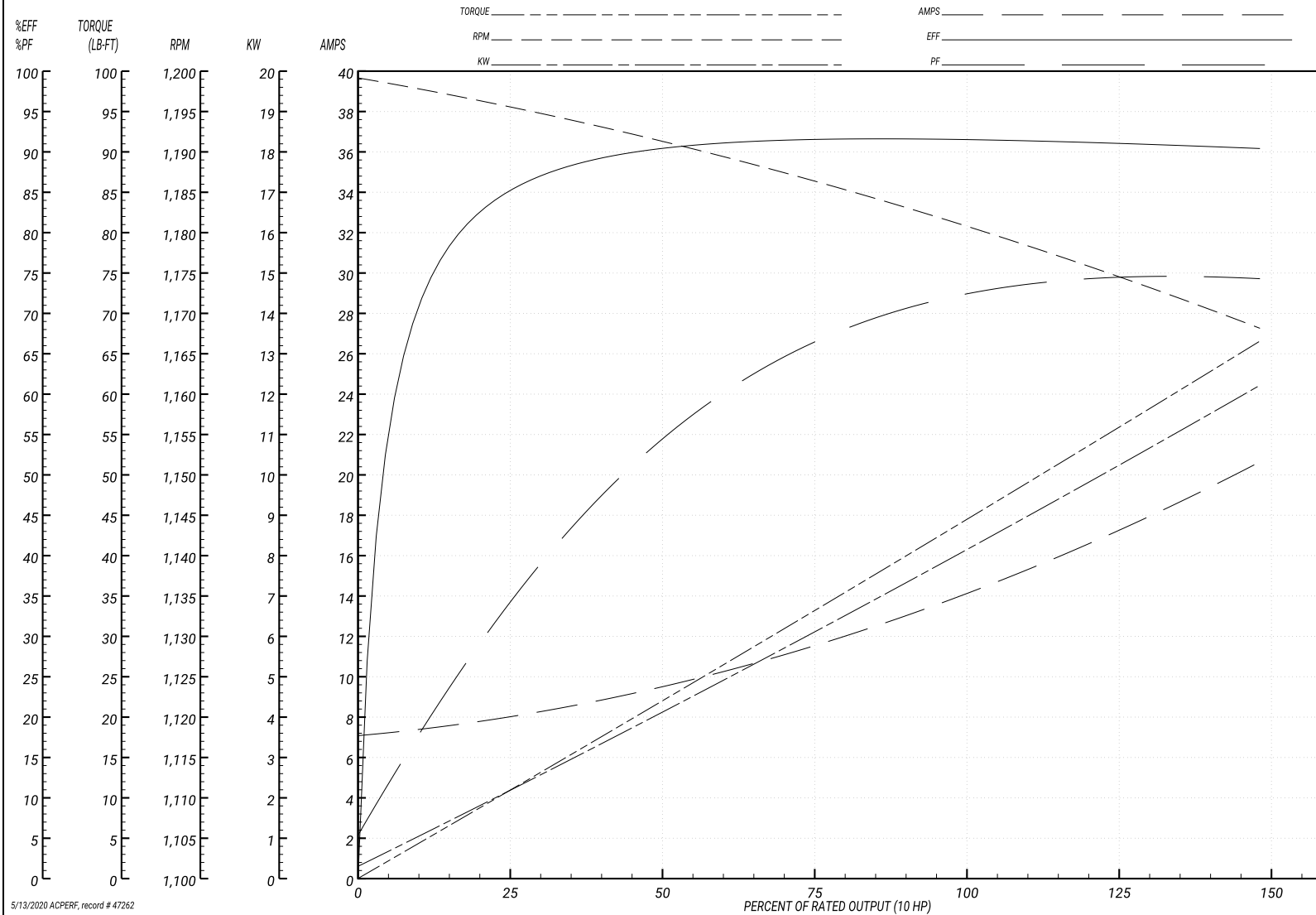
ABB Motors and Mechanical Inc.

WINDING # 09WGX826

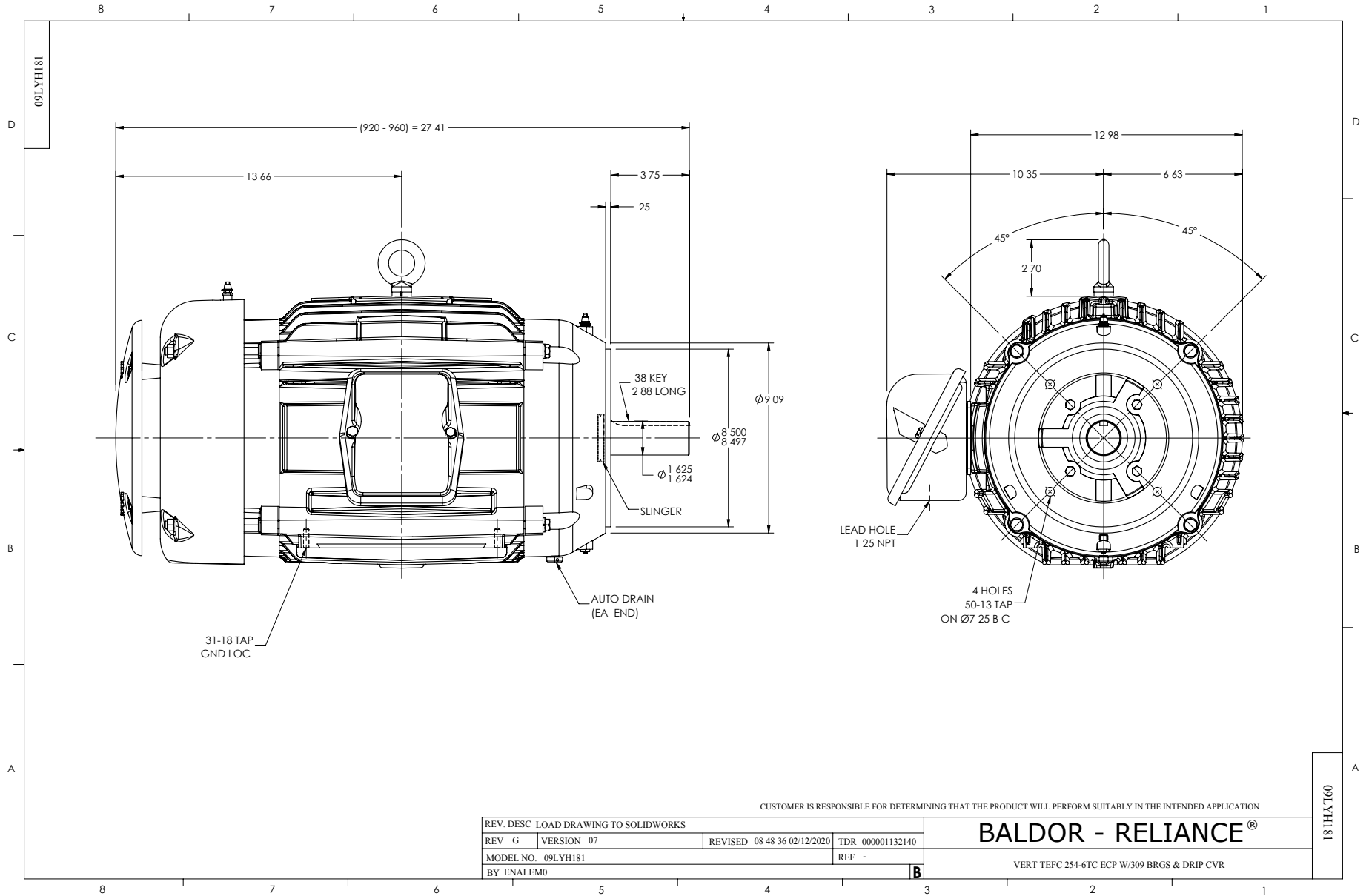
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1180 RPM 460 V 0960M

TORQUES(LB-FT): PO=144 PU=54.6 LR=75 LRA=93



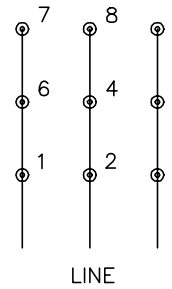
5/13/2020 ACPERF, record # 47262



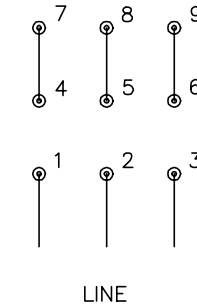
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

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3PH, DV, 9 LEADS, DELTA CONNECTION

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