

BALDOR® • RELIANCE 

Product Information Packet

CECP2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256TC, 0960M, TEFC, F

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | H | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 09WGT507 | CD Diagram: | CD0006 | Mfg Plant: | |
| Mech. Spec: | 09H180 | Layout: | 09LYH180 | Poles: | 04 | Created Date: | 11-15-2017 |
| Base: | RG | Eff. Date: | 02-21-2022 | Leads: | 3#10 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------------|
| Catalog Number: | CECP2334T-5 | Insulation Class: | F |
| Enclosure: | TEFC | Inverter Code: | Inverter Ready |
| Frame: | 256TC | KVA Code: | J |
| Frame Material: | Iron | Lifting Lugs: | Standard Lifting Lugs |
| Output @ Frequency: | 20.000 HP @ 60 HZ | Locked Bearing Indicator: | Locked Bearing |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 3 @ 10 AWG |
| Voltage @ Frequency: | 575.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| XP Class and Group: | CLI GP A,B,C,D | Motor Lead Termination: | Flying Leads |
| XP Division: | Division II | Motor Type: | 0960M |
| Agency Approvals: | CSA EEV | Mounting Arrangement: | F1 |
| | UR | Power Factor: | 83 |
| | CSA | Product Family: | Super-E Chemical Processing |
| | CCSA US | 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) | Shaft Extension Location: | Pulley End |
| Blower: | None | Shaft Ground Indicator: | No Shaft Grounding |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Current @ Voltage: | 19.200 A @ 575.0 V | Shaft Rotation: | Reversible |
| Design Code: | A | 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: | NO FEEDBACK | Thermal Device - Bearing: | None |
| Front Face Code: | Standard | Thermal Device - Winding: | None |
| Front Shaft Indicator: | None | Vibration Sensor Indicator: | No Vibration Sensor |
| Heater Indicator: | No Heater | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

| | | | | | | | | | | | | | |
|-----------------------------|----------|--------------|-----------|---------------------|------------------|----------------|--------------|-------------------|-----------|--------------|---------------|--|--|
| Nameplate NP3995ABBL | | | | | | | | | | | | | |
| CAT # CECP2334T-5 | | | | SER | | | | CC 010A | | | | | |
| SPEC 09H180T507 | | | | RATING 40C AMB-CONT | | | | | | | | | |
| HZ | VOLTS | | AMPS | | RPM | HP | CODE | SF | DES | PF | NEMA NOM. EFF | | |
| 60 | 575 | | 19.2 | | 1770 | 20 | J | 1.15 | A | 83 % | 93 % | | |
| | | | | | | | | | | % | % | | |
| PH 3 | CL F | MAX RPM 2700 | | MAX CORR KVAR 5.45 | | USABLE AT 208V | | | | | | | |
| IP55 | FR 256TC | | ENCL TEFC | | DE BRG 6309 | | ODE BRG 6309 | | | | | | |
| GREASE POLYREX EM | | | | MTR WT 322 | | | | LBS | | | | | |
| USABLE AT | | | | | | | | | | | | | |
| SFA 21.7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 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: | | | | | | | | | | | | | |
| V | A | | W | | TIE LIKE NUMBERS | | | | TOGETHER | | | | |
| MAX SPACE HEATER TEMP | | | | | | | | | | | | | |

| Parts List | | |
|---------------|--|----------|
| Part Number | Description | Quantity |
| SA347814 | SA 09H180T507 | 1.000 EA |
| RA336370 | RA 09H180T507 | 1.000 EA |
| 09FN3001D01SP | EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO | 1.000 EA |
| 09CB1002A12P | KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL | 1.000 EA |
| 09GS1010 | GASKET, DWG, LEADWIRE SEPERATOR | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 4.000 EA |
| WD1000B16 | T&B CX70TN OR L70P TERMINAL LUG | 1.000 EA |
| 59XW2520G07 | .25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN | 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 |
| 10XN2520K36 | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 2.000 EA |
| 09EP1300A12P | ENDPLATE, MACH EPOXY PRIMER | 1.000 EA |
| 10XN3816K28 | 3/8-16 X 1.75 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 |
| 09FH1000P | FAN COVER, CAST 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 |
| HW4600B44 | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 EA |
| HA1005A26 | SLINGER, OD 3.00, ID 1.75, 309 BRG | 1.000 EA |

| Parts List (continued) | | |
|------------------------|--|----------|
| Part Number | Description | Quantity |
| 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 |
| 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 |
| 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 |
| 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 |
| MG1025N19 | WILKOFASST, 778.50, RELIANCE BLUE-GREEN | 0.050 GA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| LB1417 | LABEL CARTON 6X4 PERFORATED BLANK ROLLS | 1.000 EA |
| NP3995ABBL | SS SUPER-E SD XEX CLI DIV2 UR CSA-C-US E | 1.000 EA |
| 40PA1005 | PACKAGING GROUP, 09 STD | 1.000 EA |

| | | |
|----------|---|----------|
| LB1449 | DIV-2/NEC WARNING LABEL | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (2100/bx) 4/22 | 1.000 EA |

AC Induction Motor Performance Data

Record # 67979

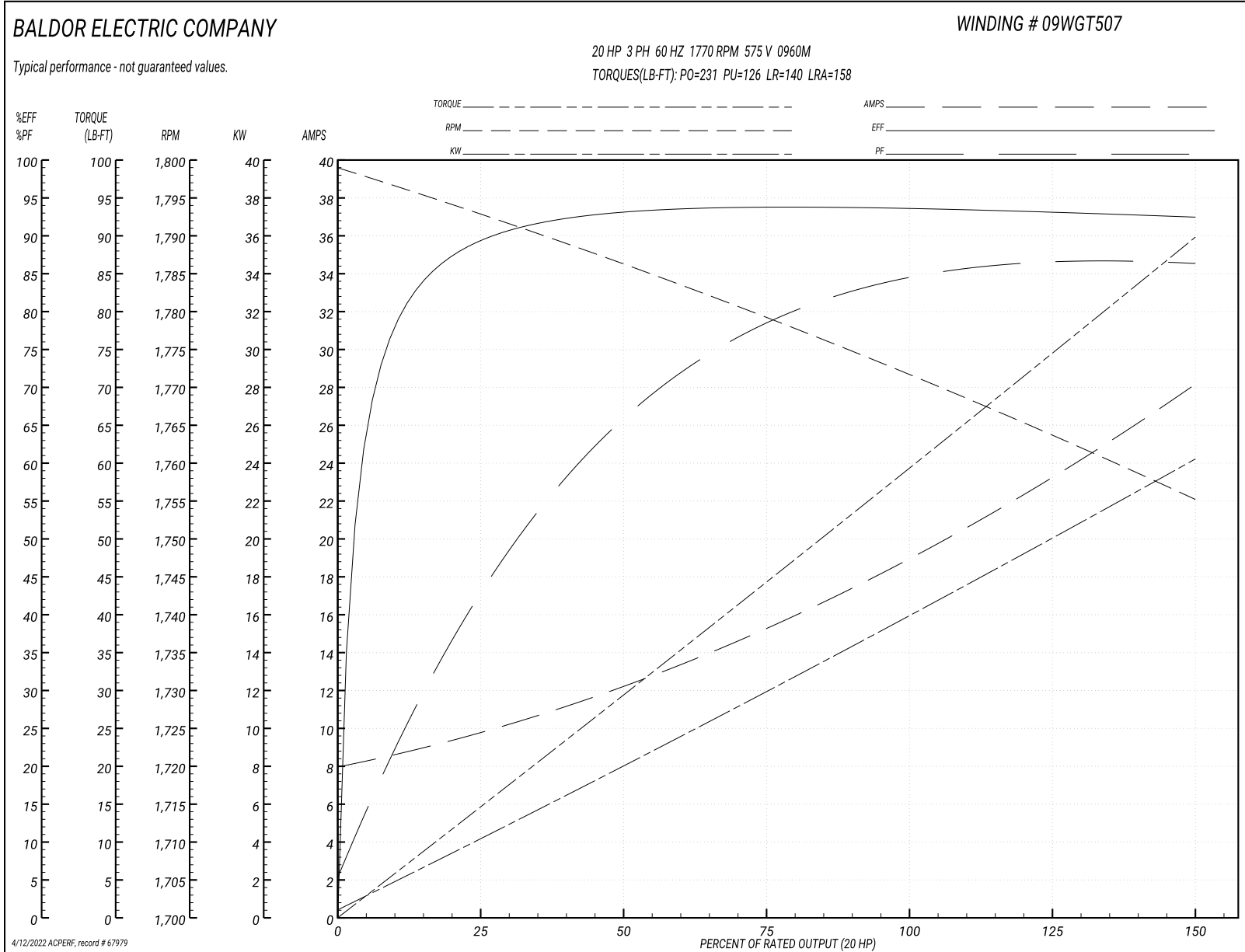
Typical performance - not guaranteed values

| Winding: 09WGT507-R001 | | | Type: 0960M | | | Enclosure: TEFC | | |
|------------------------|--------------|--------------|---------------------------|---|---------|-----------------|--|--|
| Nameplate Data | | | | 575 V, 60 Hz: Single Voltage Motor | | | | |
| Rated Output (HP) | 20 | | Full Load Torque | 59.29 LB-FT | | | | |
| Volts | 575 | | Start Configuration | direct on line | | | | |
| Full Load Amps | 19.2 | | Breakdown Torque | 231 LB-FT | | | | |
| R.P.M. | 1770 | | Pull-up Torque | 126 LB-FT | | | | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 140 LB-FT | | | | |
| NEMA Design Code | A | KVA Code | J | Starting Current | 158 A | | | |
| Service Factor (S.F.) | 1.15 | | No-load Current | 8.28 A | | | | |
| NEMA Nom. Eff. | 93 | Power Factor | 83 | Line-line Res. @ 25°C | 0.499 Ω | | | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 58°C | | | | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 69°C | | | | |
| | | | Locked-rotor Power Factor | 26.5 | | | | |
| | | | Rotor inertia | 2.65 lb-ft ² | | | | |

Load Characteristics 575 V, 60 Hz, 20 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|-------|-------|-------|-------|-------|------|
| Power Factor | 45 | 67 | 78 | 83 | 86 | 87 | 85 |
| Efficiency | 89.2 | 93 | 93.7 | 93.5 | 93.1 | 92.4 | 93.3 |
| Speed | 1793 | 1786 | 1779 | 1772 | 1764 | 1755 | 1767 |
| Line amperes | 9.41 | 11.99 | 15.34 | 19.19 | 23.44 | 27.92 | 21.7 |

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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|-----------------------------------|------------------------------|-------------------|
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| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIRO |
| MTL: - | © □ | |

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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