ABB BALDOR RELIANCE

# Customer information packet

## DMG2305

5KW, 2500RPM, DC, 1810AT, DPFG, TOD

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## Specifications

| | |
|---|---|
| **Armature Voltage** | 230 V |
| **Base Speed** | 2500 rpm |
| **Enclosure** | DPFG |
| **Field Voltage** | 230 V |
| **Frame** | 1810AT |
| **Output Power** | 5.000 KW |
| **Agency Approvals** | CSA |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 21.7 a |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Field Winding Type** | COMPOUND |
| **Heater Indicator** | No Heater |
| **Insulation Class** | F |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Standards** | NEMA |
| **Mounting Arrangement** | F1 |
| **Overall Length** | 21.45 IN |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Slinger Indicator** | No Slinger |
| **Thermal Device - Bearing** | None |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | DC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | K0006B |
| **Layout** | 1486-2 |
| **Eff. date** | 01-12-2022 |
| **CD Diagram** | |
| **Poles** | 00 |
| **Leads** | |
| **Proprietary** | False |
| **Created date** | 12-12-2019 |

**Nameplate**

| 15405 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | DMG2305 | | **MODEL NO.** | | T18S8004 | | | | |
| **KW** | 5KW | **RPM** | 2500 | | **FRAME** | 1810AT | | | |
| **ARM VOLTS** | 230 | | **ARM AMPS** | 21.70 | | **WOUND** | COMPOUND | | |
| **FIELD VOLTS** | 230 | | **FIELD AMPS** | .62 | | | | | |
| **FIELD CONN.** | | **OHMS** | 267.4 | | | **INSUL. CLASS** | F | | |
| **ENCL** | DPFG | **DUTY** | CONT | | | **MAX AMBIENT** | 40 | | |
| **SERVICE FACTOR** | | | | | | | | | |
| **S/N** | | | **E/S** | K0006B | | | | | |
| | - | | | | | | | | |
| | | | | | | | | | |
| **O.D.E. BRG.** | 6205 | **D.E. BRG.** | 6206 | **BRUSH** | 18044-4 | | | **QTY** | 2 |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 90EP5000A02 | C-FACE CONVERSION KIT FOR STOCK MTR,FR 1 | |

| REL S.O. | FRAME | RATING | RPM | ARM. VOLTS | ARM. AMPS |
|---|---|---|---|---|---|
| | 1810 | 5.00HP | 2500 | 230 | 21.7 |

| WINDING TYPE | S.F. | ENCL. | AMB °C/INSUL | DUTY | FIELD VOLTS |
|---|---|---|---|---|---|
| STAB. SHUNT | 1.0 | DPG | 40/F | CONT | 230 |

| POWER CODE | TYPE | $WK^2$(LB-$FT^2$) | HOT ARM.CIR.RES. | FLD. AMPS@25 °C | HOT FIELD RES |
|---|---|---|---|---|---|
| A | T | .9565 | .442 | .860 | 370 |

| ARM. CIR. IND. (mh) | FIELD IND. (H) | COOLING AIR(CFM/IN $H_2O$) | TURNS PER COIL SHUNT/SERIES | TEST DATE |
|---|---|---|---|---|
| 6.36 | 139 | -/- | 2300/7 | - |

LOAD PERFORMANCE

| LOAD | AMPERES | TORQUE IN OZ.-FT. | OUTPUT IN HP | RPM | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 456 | 0 | 0 | 2520 | 0 |
| 1/4 | 5.4 | 0 | 0 | 2480 | 0 |
| 2/4 | 11 | 0 | 0 | 2441 | 0 |
| 3/4 | 16 | 0 | 0 | 2416 | 0 |
| 4/4 | 22 | 0 | 0 | 2373 | 0 |
| O.L. | 33 | 0 | 0 | 2311 | 0 |
| | | | | | |

RPM VS. FIELD AMPS / Eg VS. FIELD AMPS

| FIELD AMPS | RPM N.L. | RPM F.L. | Eg N.L. @ BASE SPEED | Eg F.L. @ BASE SPEED |
|---|---|---|---|---|
| .620 | 2520 | 2372 | 226 | 220 |
| .579 | 2517 | 2735 | 225 | 218 |
| .537 | 2521 | 2753 | 223 | 216 |
| .495 | 2554 | 2775 | 219 | 213 |
| .454 | 2614 | 2800 | 215 | 210 |

REMARKS: TYPICAL DATA

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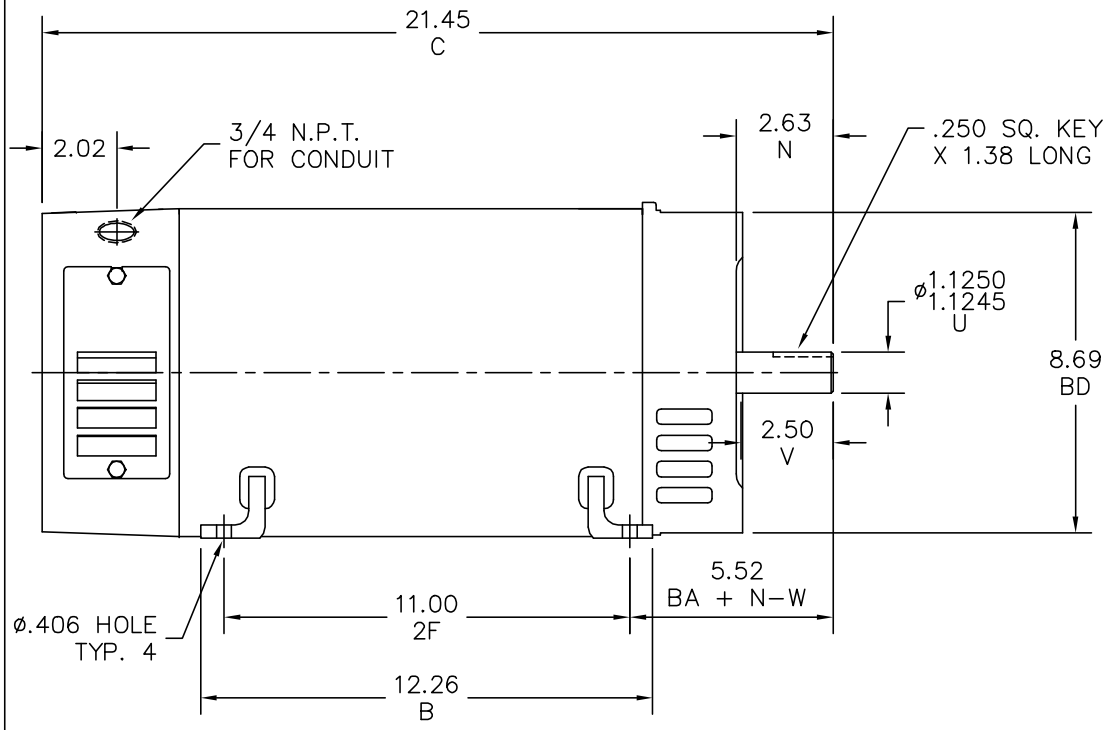
DR. BY E. GILLOT
CK. BY B. GRANT
APP. BY R. ERLACHER
DATE 02-27-2008

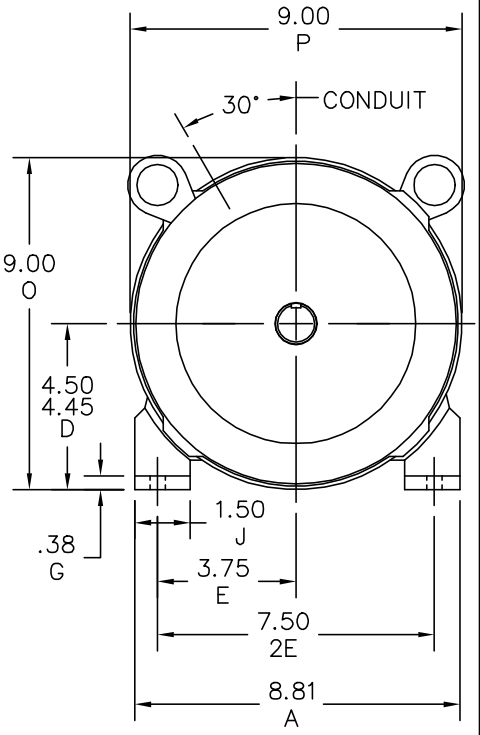
D-C MOTOR PERFORMANCE DATA

DK0006B

ISSUE DATE 02-07-2008

1486–2




SHAFT RUNOUT .002 T.I.R. MAX.
"V" DIMENSION IS MAX. HUB LENGTH ON SHAFT.
APPROX. WEIGHT: 195 LB.
ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS
CONSULT FACTORY FOR TOLERANCES.

1486–2

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | |
|---|---|---|
| REV. DESC: REVISE SHAFT HEIGHT TOLERANCE | | |
| REV. LTR: C | VERSION: 03 | TDR: 000001172619 |
| FILE: \RGG\00005\857 | REVISED: 11:08:59 09/23/2021 | BY: RGGNAS |
| MTL: – | | |

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1810AT,GENERATOR,DPFG

SH 1 of 1