

BALDOR® • RELIANCE 

Product Information Packet

ECP83660T-5

3HP,3450RPM,3PH,60HZ,182T,0632M,TEFC,F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | W | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 06WGX185 | CD Diagram: | CD0006 | Mfg Plant: | |
| Mech. Spec: | 06H759 | Layout: | 06LYH759 | Poles: | 02 | Created Date: | 05-17-2010 |
| Base: | RG | Eff. Date: | 08-27-2021 | Leads: | 3#18 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|--------------------------------|
| Catalog Number: | ECP83660T-5 | Inverter Code: | Inverter Duty |
| Enclosure: | TEFC | KVA Code: | K |
| Frame: | 182T | Lifting Lugs: | Standard Lifting Lugs |
| Frame Material: | Iron | Locked Bearing Indicator: | Locked Bearing |
| Output @ Frequency: | 3.000 HP @ 60 HZ | Motor Lead Quantity/Wire Size: | 3 @ 18 AWG |
| Synchronous Speed @ Frequency: | 3600 RPM @ 60 HZ | Motor Lead Exit: | Ko Box |
| Voltage @ Frequency: | 575.0 V @ 60 HZ | Motor Lead Termination: | Ring Terminals |
| XP Class and Group: | CLI GP A,B,C,D | Motor Type: | 0632M |
| XP Division: | Division II | Mounting Arrangement: | F1 |
| Agency Approvals: | UR | Power Factor: | 94 |
| | CSA EEV | Product Family: | Chem Process S/P 32-8 IEEE 841 |
| | CSA | Pulley End Bearing Type: | Ball |
| Auxillary Box: | No Auxillary Box | Pulley Face Code: | Standard |
| 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 |
| Constant Torque Speed Range: | 6 | Shaft Rotation: | Reversible |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Current @ Voltage: | 2.700 A @ 575.0 V | Shaft Slinger Indicator: | Shaft 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: | None |
| Front Face Code: | Standard | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Shaft Indicator: | None | Winding Thermal 1: | None |
| Heater Indicator: | No Heater | Winding Thermal 2: | None |
| Insulation Class: | F | XP Temp Code: | T3C |

| | | | |
|--------------------------|--------------|--------------|-----------------|
| Nameplate NP3235E | | | |
| CAT.NO. | ECP83660T-5 | | |
| SPEC. | 06H759X185G1 | | |
| HP | 3 | TE | IP 56 |
| VOLTS | 575 | | |
| AMPS | 2.7 | | |
| R.P.M. | 3450 | | |
| FRAME | 182T | HZ | 60 |
| SER.F. | 1.15 | CODE | K DES. B |
| RATING | 40C AMB-CONT | | |
| SN | | | |
| DE | 6206 | ODE | 6206 |
| NEMA NOM. EFF. | 88.5 | P.F. | 94 |
| GUAR. MIN. EFF. | 86.5 | CC | 010A |
| T. CODE | T3C | TEMP= | 160 |
| | | PH | 3 |
| | | CLASS | F |

| Nameplate NP3186E | | | |
|-------------------|--------------|-------------------------|-----|
| SPEC. | 06H759X185G1 | | |
| ABMA DE BRG | 30BC02X30X | | |
| ABMA ODE BRG | 30BC02X30X | | |
| GREASE | POLYREX EM | | |
| MOTOR WEIGHT | 116 | ROTOR BARS | 28 |
| MAX. R.P.M. | 5400 | MAX. KVAR | N/A |
| | | STATOR BARS | 36 |
| INV. TYPE | PWM | | |
| T= | 160 | | |
| CHP | 60 | TO | 90 |
| CT | 6 | TO | 60 |
| VT | 3 | TO | 60 |
| HTR-VOLTS | N/A | HTR-AMPS | N/A |
| HTR-WATTS | | | |
| | | MAX. SPACE HEATER TEMP. | N/A |

| Parts List | | |
|--------------|--|----------|
| Part Number | Description | Quantity |
| SA198465 | SA 06H759X185G1 | 1.000 EA |
| RA185832 | RA 06H759X185G1 | 1.000 EA |
| HW3201A05 | 3/8-16 EYEBOLT | 1.000 EA |
| 06CB1001A01G | CONDUIT BOX, MACH GRAY | 1.000 EA |
| RM1016 | LEAD SEPARATOR GASKET - 305/306 C.P.MOTO | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 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 |
| WD1000B16 | T&B CX70TN OR L70P TERMINAL LUG | 2.000 EA |
| 10XN2520G06 | 1/4 20X3/8 HX HD CAP, GREEN | 2.000 EA |
| 06PE1132A02G | FREP ASSEMBLY FOR ROUTING PURPOSES | 1.000 EA |
| HW4601B24 | INPRO SEAL, 206 BRG, MINI66 | 1.000 EA |
| HW4500A32 | FIT./EXT 1698-B (ALEMITE)GREASE FITTING | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 4.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |
| HA4010A01 | T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0 | 1.000 EA |
| HW5100A06 | W2420-025 WVY WSHR (WB) | 1.000 EA |
| 06EP1132A01G | PUEP ENCL 206,BRG RET,GRSR,RLF,DRAIN FIT | 1.000 EA |
| HW4601B24 | INPRO SEAL, 206 BRG, MINI66 | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |
| HA4010A01 | T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0 | 1.000 EA |

| Parts List (continued) | | |
|------------------------|--|----------|
| Part Number | Description | Quantity |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 4.000 EA |
| HA3101A34 | THRUBOLT- 1/4-20 X 10.375 | 4.000 EA |
| XY2520A12 | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS | 4.000 EA |
| 06FH1004A01G | FAN HOUSING MACH, W/GRAY EPOXY | 1.000 EA |
| 10XN2520A24 | 1/4-20X 1 1/2 HEX HD X | 3.000 EA |
| WD4100A02 | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL | 1.000 EA |
| 06CB1503A01G | LIPPED CONDUIT BOX LID, MACH GRAY EPOXY | 1.000 EA |
| 06GS1009 | GASKET, KOBX LID, 1/8" THICK BLACK NEOPR | 1.000 EA |
| 10XN2520A12 | 1/4-20 X 3/4 HEX HEAD CAP | 2.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| MJ5004A59 | ADHESIVE LOCTITE #401 SURFACE INSENSITIV | 0.010 EA |
| HW2501E16 | KEY, 1/4 SQ X 1.750 | 1.000 EA |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 EA |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 QT |
| MJ1000A73 | INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN | 0.001 QT |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 4.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| LT0019A00 | MOTOR NO-LOAD PERFORMANCE DATA SHEET | 1.000 EA |
| WD1000D21 | TRM,T&B #B71M,RING,18-14,.25,NON-INSL | 3.000 EA |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID | 1.000 EA |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| MG1025N19 | WILKOFASST, 778.50, RELIANCE BLUE-GREEN | 0.028 GA |
| LB1119N | WARNING LABEL | 1.000 EA |

| | | |
|----------|---|----------|
| LC0006 | CONNECTION LABEL | 1.000 EA |
| LB1449 | DIV-2/NEC WARNING LABEL | 1.000 EA |
| NP3235E | SS IEEE841 DIV-2 UL CSA-C US EEV PREM | 1.000 EA |
| NP3186E | SS IEEE841 INV AUX DATA INFORMATION | 1.000 EA |
| 36PA1001 | PKG GRP, PRINT PK1017A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (2100/bx) 4/22 | 1.000 EA |

AC Induction Motor Performance Data

Record # 47359

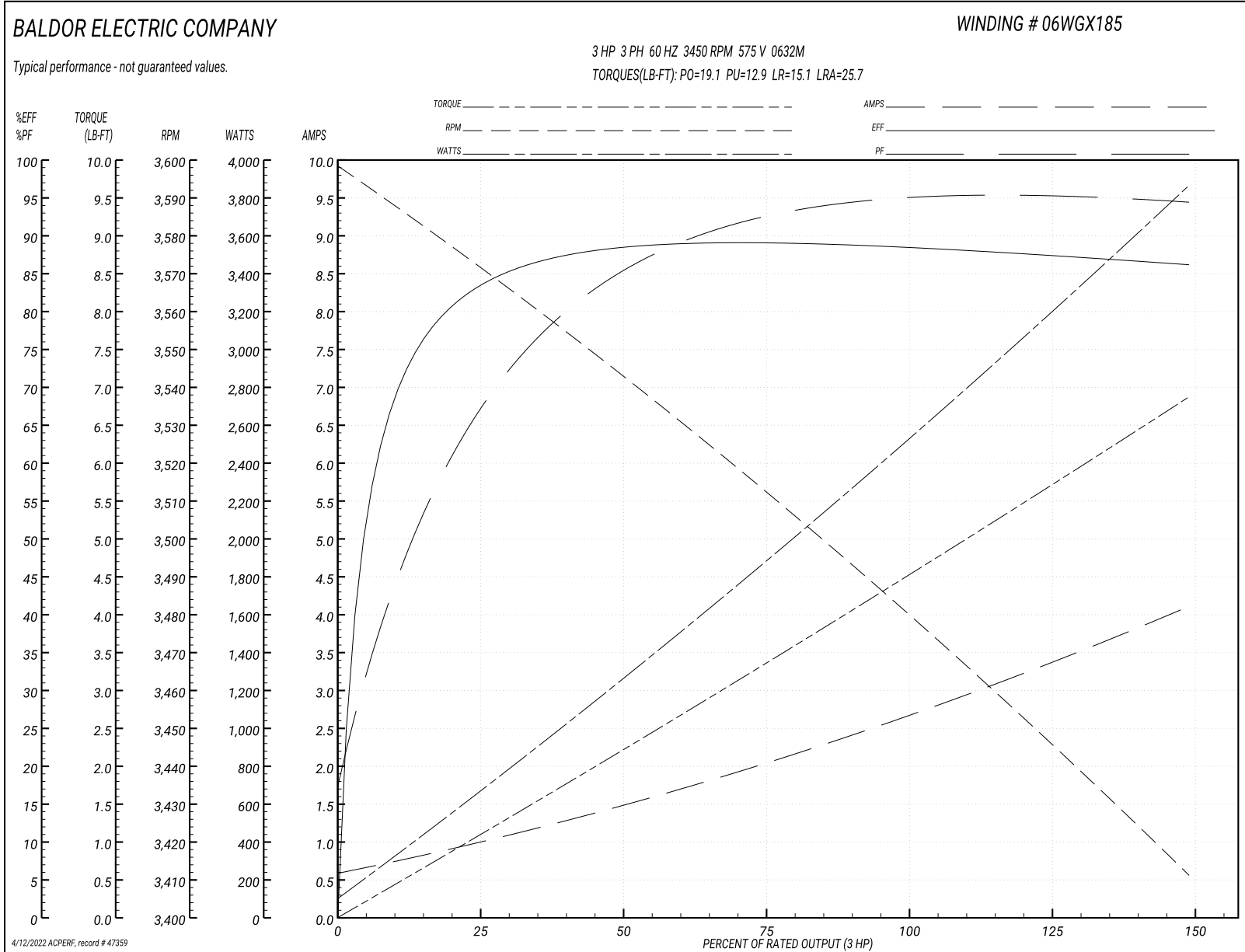
Typical performance - not guaranteed values

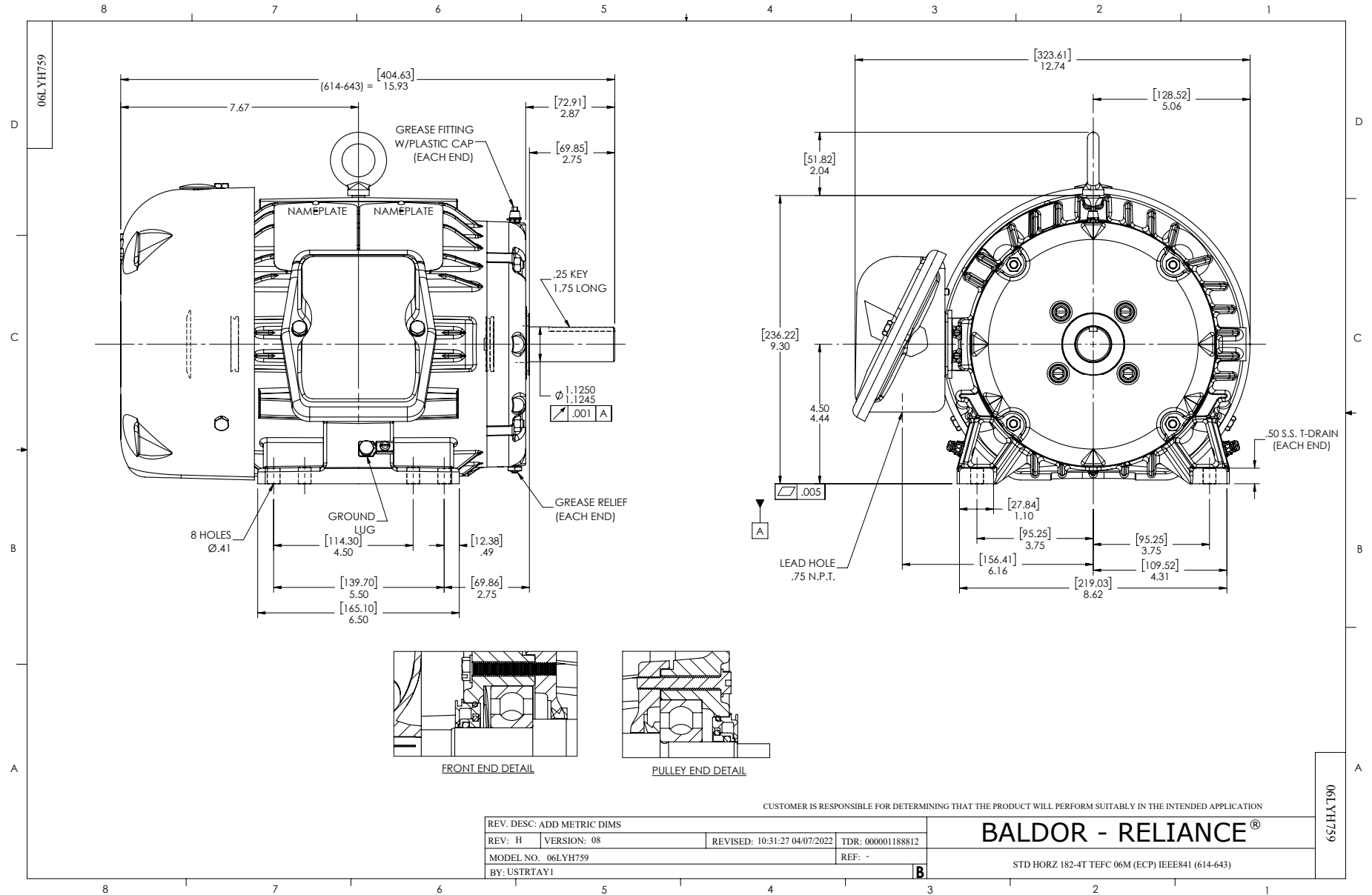
| Winding: 06WGX185-R005 | | Type: 0632M | Enclosure: TEFC | |
|------------------------|-------------------|---------------------------|---|--|
| Nameplate Data | | | 575 V, 60 Hz: Single Voltage Motor | |
| Rated Output (HP) | 3 | Full Load Torque | 4.52 LB-FT | |
| Volts | 575 | Start Configuration | direct on line | |
| Full Load Amps | 2.7 | Breakdown Torque | 19.1 LB-FT | |
| R.P.M. | 3450 | Pull-up Torque | 12.9 LB-FT | |
| Hz | 60 Phase | Locked-rotor Torque | 15.1 LB-FT | |
| NEMA Design Code | B KVA Code | Starting Current | 25.7 A | |
| Service Factor (S.F.) | 1.15 | No-load Current | 0.634 A | |
| NEMA Nom. Eff. | 88.5 Power Factor | Line-line Res. @ 25°C | 6.39 Ω | |
| Rating - Duty | 40C AMB-CONT | Temp. Rise @ Rated Load | 35°C | |
| S.F. Amps | | Temp. Rise @ S.F. Load | 43°C | |
| | | Locked-rotor Power Factor | 42 | |
| | | Rotor inertia | 0.144 LB-FT ² | |

Load Characteristics 575 V, 60 Hz, 3 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor | 72 | 86 | 92 | 94 | 95 | 95 | 95 |
| Efficiency | 82.7 | 88.6 | 89.1 | 88.5 | 87.4 | 86.2 | 87.8 |
| Speed | 3570 | 3543 | 3513 | 3481 | 3448 | 3410 | 3461 |
| Line amperes | 0.929 | 1.46 | 2.04 | 2.7 | 3.38 | 4.08 | 3.11 |

Performance Graph at 575V, 60Hz, 3.0HP 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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|-----------------------------------|------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 | | |
| 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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