marathon®

# General Purpose Motors

**Model No:** 213TTFBA6004
**Catalog No:** GT1315

General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC Frame, TEFC

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# Product Information Packet: Model No: 213TTFBA6004, Catalog No: GT1315 General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **7.50 & 5 Hp** |
| Output KW | **5.6 & 3.7 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **3525 & 2930 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.0** | Frame | **213TC** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **89.5 & 91 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **17.8/8.9 & 14.4/7.2 A** |
| Power Factor | **88** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6307** |
| Opp Drive End Bearing Size | **6206** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **43** | Number of Speeds | **1** |

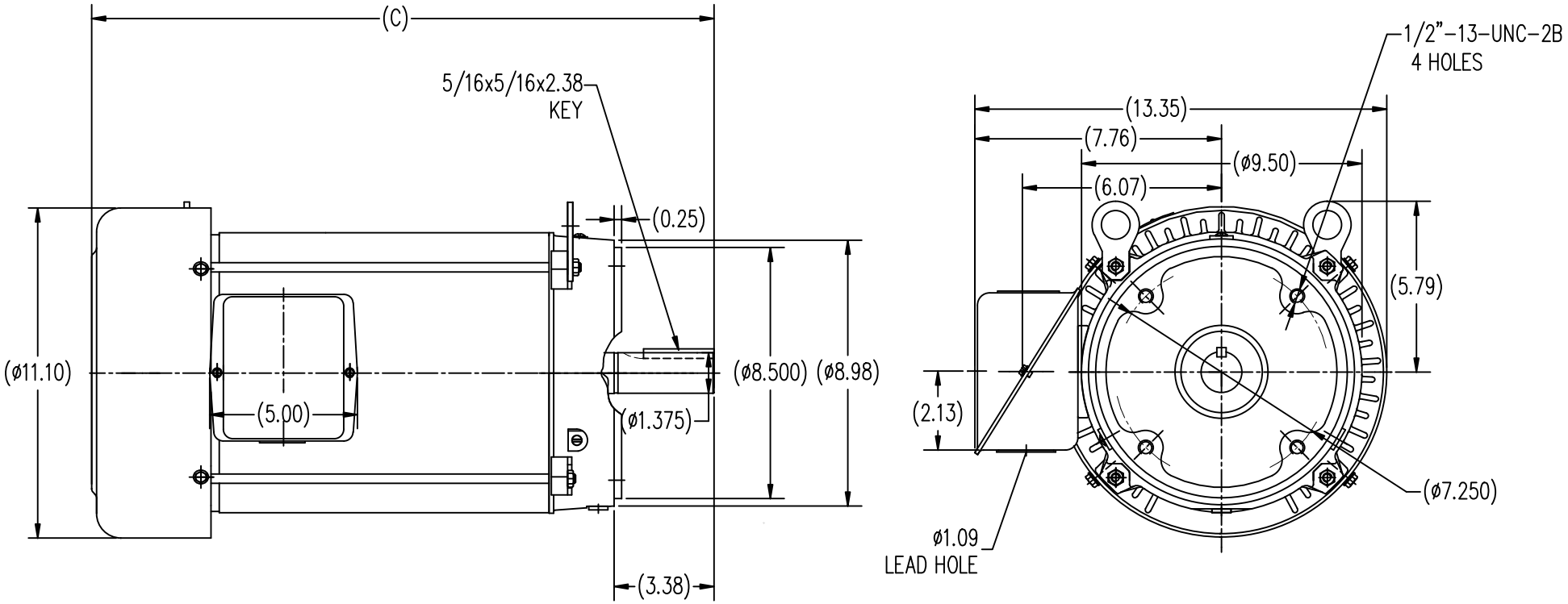
## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **.805 O** | Mounting | **Round** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **T** | Overall Length | **19.53 in** |
| Shaft Diameter | **1 3/8 in** | Shaft Extension | **3.38 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | | |

## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **A-EE7308** | Outline Drawing | **SS620308-213TC** |

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| | |
|---|---|
| 213TC | 19.53 |
| 215TC | 21.02 |
| FRAME | C |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| | | | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.03 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±1/2 |

REGAL-BELOIT CORPORATION

TITLE: OUTLINE
NEMA-PREMIUM TTFBA 213T/215TC

MAT'L.

FINISH

RFP

DIST

CAD FILE: SS620308

| | |
|---|---|
| DRAWN | SY 4-19-2010 |
| CHK | HZJ 4-19-2010 |
| APPD | CL 4-19-2010 |
| SCALE | 1=4 |
| REF | |
| FMF | HWADA |
| PREV | |

SIZE: B

DRAWING NO.: SS620308

REV.:

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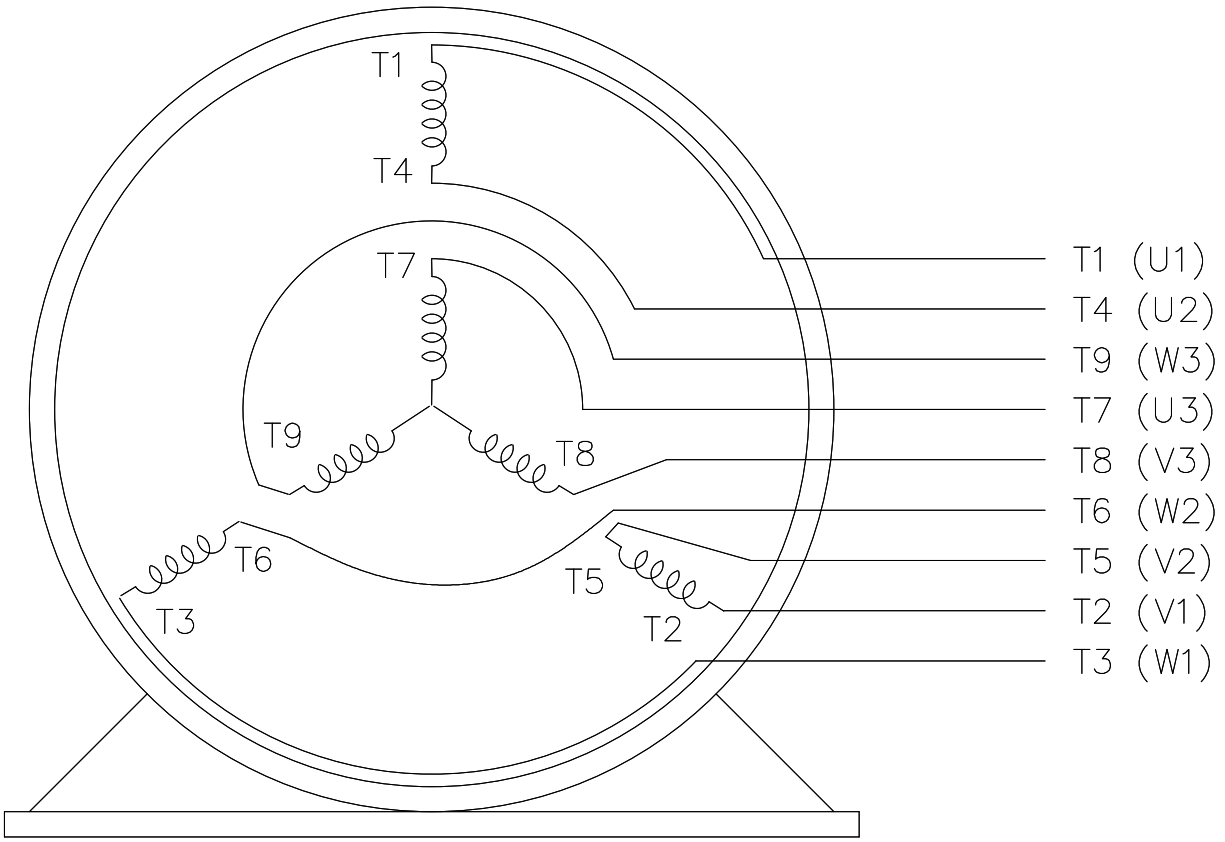
# THREE PHASE
# DUAL VOLTAGE MOTOR

## HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

## LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6




VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

## OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

| DRAWING REVISION | REVISION BY | REV DATE/ © DATE |
|---|---|---|
| J | SB | 08/01/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023654 | SBD | 08/01/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| DRAWN BY | RM |
|---|---|
| DATE | 11/20/1990 |
| APPROVED BY | SAS |
| DATE | 04/24/2003 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 6 EE7308 | 1 OF 1 |

# Data Sheet

**Date:** 29-06-2017
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

marathon® electric

213TTFBA6004

**Submittal**

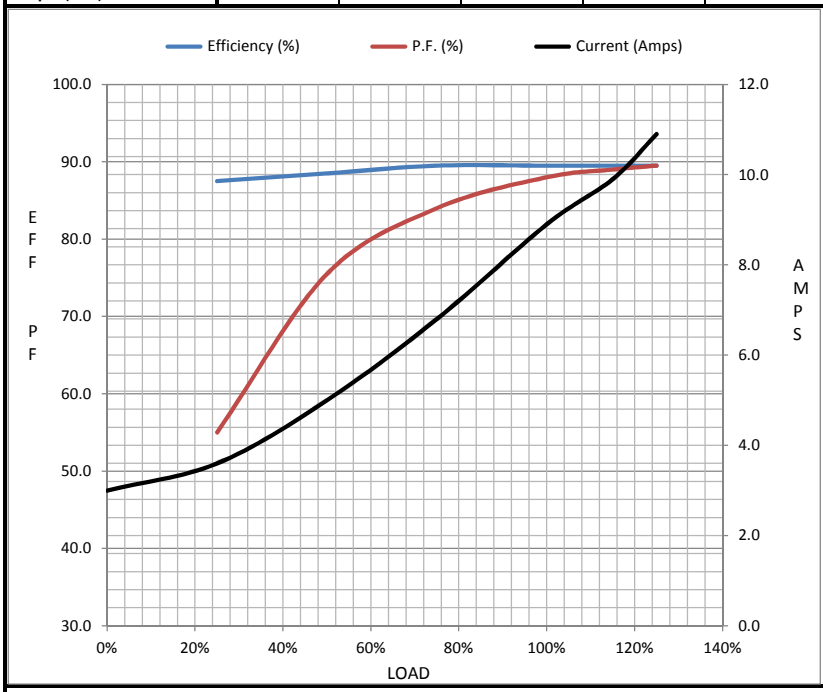
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 3.0 | 3.6 | 5.0 | 6.8 | 8.9 | 9.9 | 10.9 | 58.0 | |
| Torque (ft-lb) | 0.00 | 2.80 | 5.5 | 8.3 | 11.2 | 12.9 | 14.1 | 22.8 | |
| RPM | 3600 | 3580 | 3555 | 3535 | 3525 | 3,510 | 3490 | 0 | |
| Efficiency (%) | | 87.5 | 88.5 | 89.5 | 89.5 | 89.5 | 89.5 | | |
| P.F. (%) | 7.0 | 55.0 | 75.5 | 84.0 | 88.0 | 89.0 | 89.5 | 42.5 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 500 | 3040 | 3525 | 3600 |
| Current (Amps) | 58.0 | 57.0 | 37.0 | 8.9 | 3.0 |
| Torque (ft-lb) | 22.8 | 25.0 | 26.8 | 11.2 | 0.00 |




## Information Block

| | |
|---|---|
| HP | 7.5 |
| Sync. RPM | 3600 |
| Frame | 213 |
| Enclosure | TEFC |
| Construction | TFC |
| Voltage | 230/460#190/38( V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 40 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 0.32 Lb-Ft² |
| Ref Wdg | CHT21320005 NONE |
| Sound Pressure @ 1M | 72 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS620308 |
| Conn. Diag | A-EE7308 |

Additional Specifications:

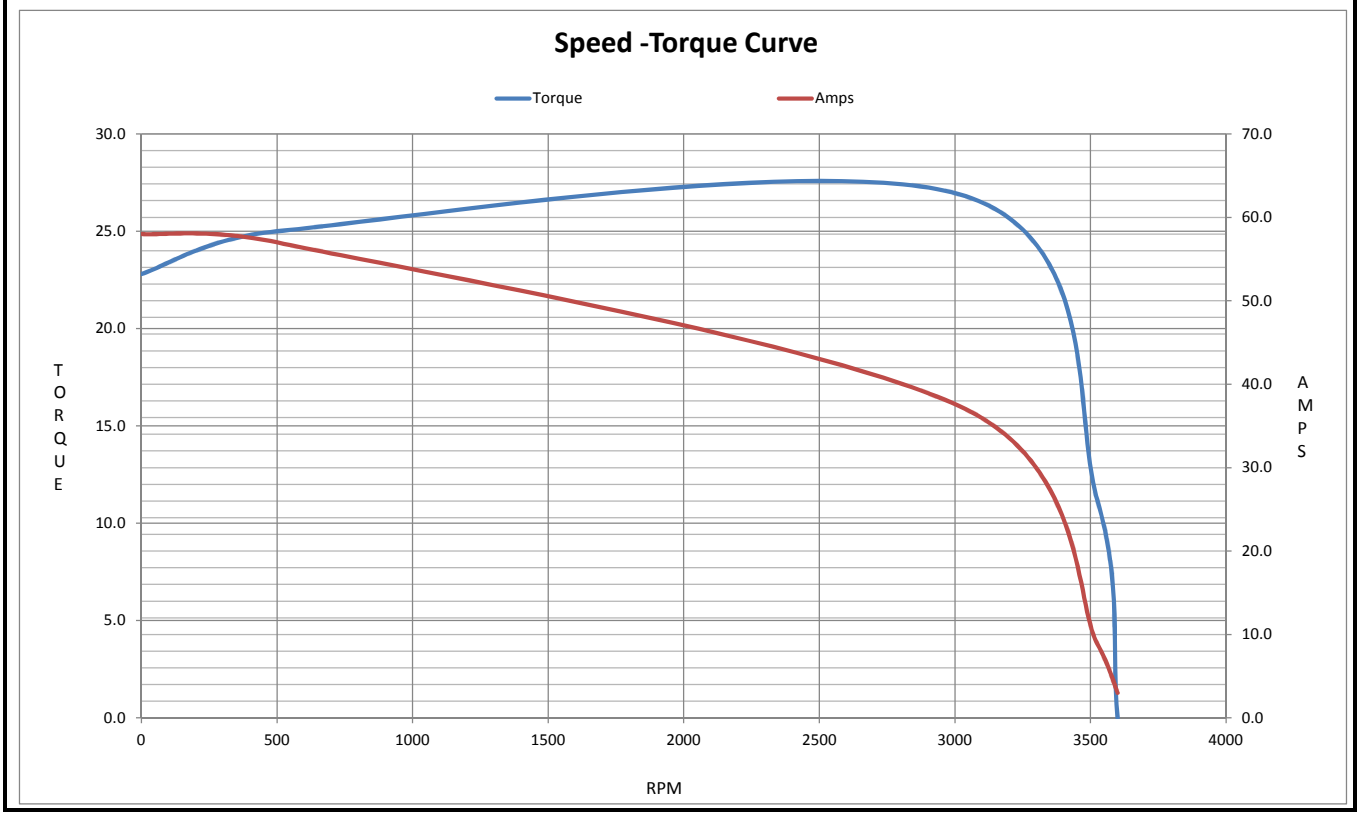
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.4910 | 0.4160 | 1.7770 | 1.6250 | 75.0330 |

## Speed -Torque Curve



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 213TTFBA6004 BA | **WINDING#:** | CHT21320005 NONE 1 |
| **CONN. DIAGRAM:** | A-EE7308 | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | B-SS620308 | | |

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 7 1/2&5 | 5.60&3.70 | 3600 | 3525&2930 | 213TC | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 17.8/8.9&14.4/7.2 | ACROSS THE LINE | CONTINUOUS | F7 | 1.15/1.0 | 40 | 3300 |

| FULL LOAD EFF: 89.5&91 | 3/4 LOAD EFF: 89.5 | 1/2 LOAD EFF: 88.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| **FULL LOAD PF: 88&85.5** | **3/4 LOAD PF: 84** | **1/2 LOAD PF: 75.5** | 88.5 | SQ CAGE IND RUN | 6 / 3 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 11.2 LB-FT | 116 / 58 | 22.8 LB-FT 205 | 26.8 LB-FT 240 | 40 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 72 dBA | 82 dBA | 0.32 LB-FT^2 | 12 LB-FT^2 | 20 SEC. | 2 | 146 LBS. |

### *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| C-FACE | STANDARD | ROUND | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL 6307 | BALL 6206 | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | ROLLED STEEL |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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