

PRODUCT INFORMATION PACKET



Model No: 140605.00

Catalog No: 140605.00

Brake Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 213TC Frame, TEFC



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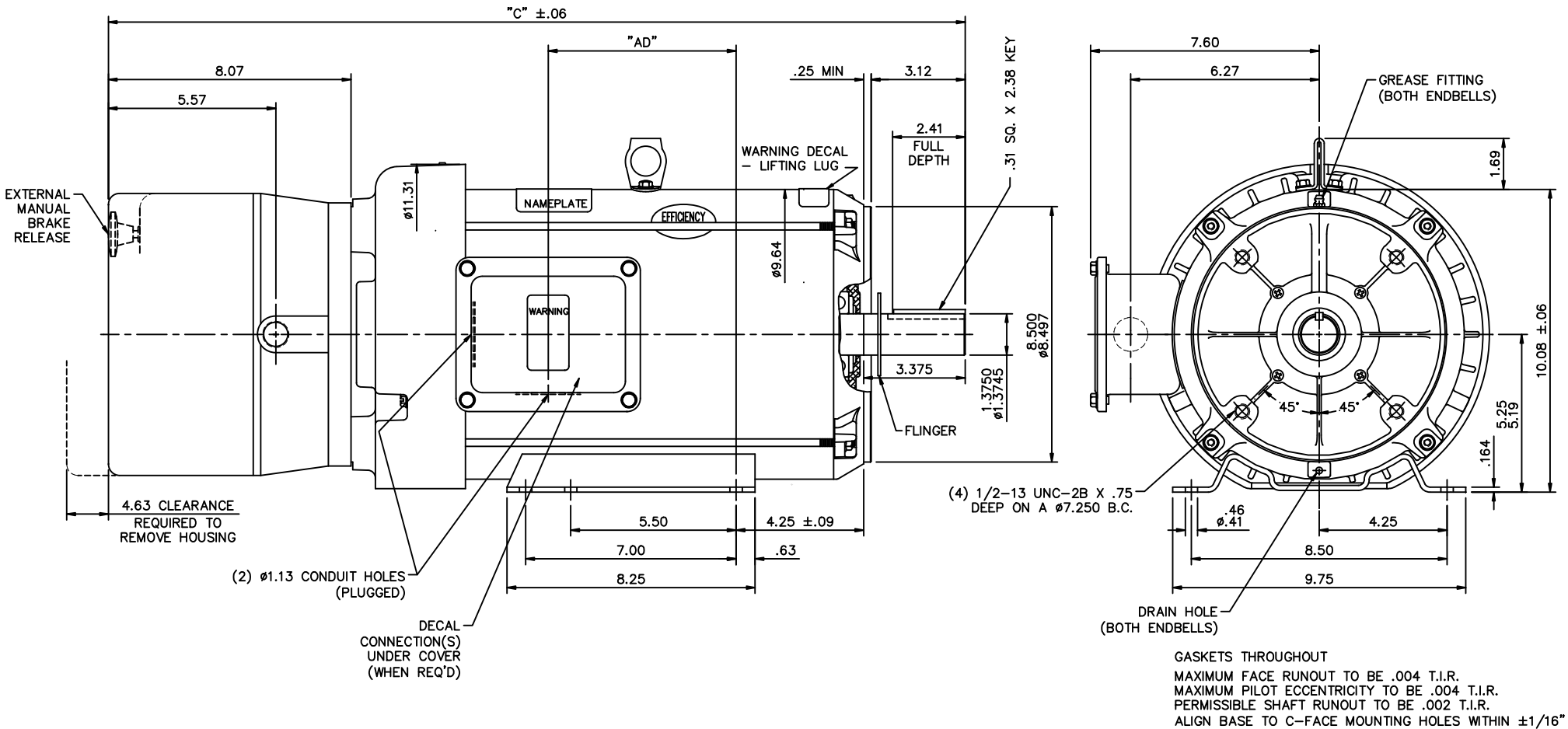


Nameplate Specifications

| | | | |
|------------------------|-----------------------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 7.50 & 5 Hp |
| Output KW | 5.6 & 3.7 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1765 & 1460 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 213TC | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 91.7 & 91 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 21.6/10.8 & 18.4/9.2 A | Power Factor | 72 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | J |
| Drive End Bearing Size | 6207 | 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 | 4 | Rotation | Reversible |
| Resistance Main | .88 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 28.00 in |
| Frame Length | 12.00 in | Shaft Diameter | 1.375 in |
| Shaft Extension | 3.37 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | 037633-1200 | Connection Drawing | 005010.15 |



| DASH NO. | "C" | "AD" |
|----------|-------|------|
| 1100 | 27.00 | 4.75 |
| 1150 | 27.50 | 5.25 |
| 1200 | 28.00 | 5.75 |
| 1250 | 28.50 | 6.25 |
| 1300 | 29.00 | 6.75 |
| 1350 | 29.50 | 7.25 |
| 1400 | 30.00 | 7.75 |

| | | TOLERANCES UNLESS SPECIFIED | | LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES | | DRAWN RDW 6/22/05 | |
|--|--|-----------------------------|---------|--|--------|-------------------|--------------------|
| | | DEC. | INCHES | | | CHK | |
| 01 | ADDED: WARNING DECAL - LIFTING LUG & WARNING DECAL - | .X | ±.1 | TITLE | | SCALE 5=16 | |
| | WITH/OUT PROTECTOR; REMOVED: DECAL - WIRING INSTRUCTION, | .XX | ±.03 | OUTLINE - 210TC FRAME | | APPD SW 6/22/05 | |
| | NAMEPLATE -was- TV SCREEN STYLE(004142.01) | .XXX | ±.005 | TEFC - RIGID "C" | | REF | |
| | | .XXXX | ±.0005 | BRAKE MOTOR | | FMF | |
| NO. | REVISION | CHK | ANG | ±1/2" | FINISH | PREV | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | RFP | 6/22/05 | CAD FILE | 037633 | SIZE B | DRAWING NO. 037633 |
| | | DIST | NLV | | | | REV. 01 |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

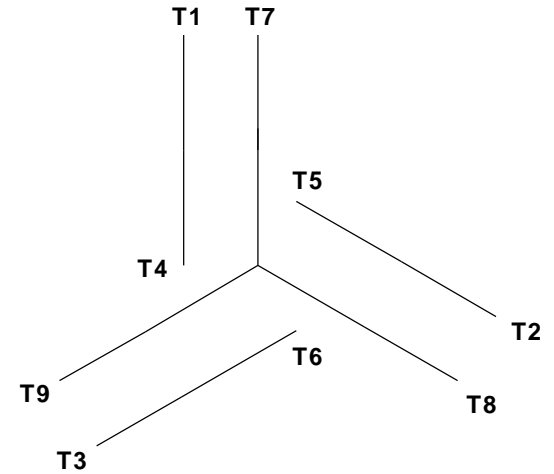


CAUTION:
LEAD WIRE INSULATION TO EXTEND
MINIMUM OF 1/4" INTO CONNECTOR
INSULATION

SEE TABLE FOR
 BRAKE CONNECTIONS

REF. DECAL (MOTOR) - 004014
 REF. DECAL (BRAKE) - 080034 (STEARNS & DINGS BRAKE)

LINE LEADS



| VOLTAGE | L1 | L2 | L3 | JOIN & INSULATE |
|---------|--------|--------|--------|----------------------------------|
| HIGH | T1 | T2 | T3 | (T4, T7) (T5, T8) (T6, T9) |
| LOW | T1, T7 | T2, T8 | T3, T9 | T4, T5, T6 |

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TYPE "T" W/O PROTECTOR

| VOLTAGE | BRAKE CONNECTION | | |
|---------|---------------------|---------------------|----------------------|
| | STEARNS BRAKE | | DINGS BRAKE |
| | L1 | L2 | Join |
| HIGH | 1(REDF) | 2(REDF) | 3(BLACK) 4(BLACK) |
| LOW | 1(REDF) 3(BLACK) | 2(REDF) 4(BLACK) | ----- |

| | | | | | | | | |
|------------------------|--|--------------|-------|-----------------------------|--|---|--------------------|-----|
| | | | | TOLERANCES UNLESS SPECIFIED | | ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN JJK 09/17/96 | |
| | | | | DEC | INCHES | | CHK | |
| | | | | .X | ±.1 | APPR | | |
| | | | | .XX | ±.01 | TITLE | SCALE 1:1 | |
| -- | REDRAWN IN SOLIDWORKS | VJB 02/08/11 | .XXX | ±.005 | EXTERNAL WIRING DIAGRAM STANDARD 3 PHASE - DUAL VOLTAGE | | REF 005010-01 | |
| 01 | ADDED DINGS AND BRAKE TABLE (PER CN114156) | TMZ 11/12/96 | .XXXX | ±.0005 | MAT'L W/STEARNS OR DINGS DUAL VOLTAGE BRAKE CONN. | | FMF | |
| NO | REVISION | BY & DATE | CHK | ANG ±1/2° | FINISH LEESON STOCK | | PAGE OF | |
| THIRD ANGLE PROJECTION | | | | RFP | PREV | SIZE | DRAWING NO | REV |
| | | | | NETWORK FILE NAME 00501015 | | A | 005010-15 | -- |



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.15
OUTLINE: 037633-1200
WINDING: T9495

CAT #: 140605.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|-----|----------|--------|-------|-----------|------|----------|--------|
| 7.5 | 5.6 | 1800 | 1770 | 213TC | TEFC | TFW | J | A |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|-----------------|-----------|-----------------|------|------|------|-----|-------|
| 3 | 60/50 | 230/460#190/380 | 21.6/10.8 | ACROSS THE LINE | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 91.7 | 3/4 LD EFF | 90.4 | 1/2 LD EFF | 88.4 | GTD EFF | ELECT. TYPE |
|----------|------|------------|------|------------|------|---------|-----------------|
| F.L. PF | 72.0 | 3/4 LD PF | 64.8 | 1/2 LD PF | 52.5 | 90.2 | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (° C) |
|-------------|-----------------|-----------------|-----------------|-----------------|
| 22.3 LB-FT | 73.0 | 50.0 LB-FT 224% | 64.2 LB-FT 288% | 43 |

| PRESSURE @ 3 | SOUND | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|-------|-------------|---------------|-----------------|-------------|-----------|
| 60 dBA | 69 dBA | | 0.97 LB-FT² | 1 LB-FT² | 15 SEC. | 2 | 0 LB. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|-----------|
| C-FACE | BRAKE | RIGID | HORIZONTAL | NO | NONE | NO | NONE | WATTSAVER |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------|----------------|
| DE | ODE | POLYREX EM | T | NONE | NONE | NONE | ROLLED STEEL |
| BALL | BALL | | | | | | |
| 6207 | 6206 | | | | | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------|------------|-----------|-----------|-------------|---------|---------------|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0 | 0 | 0 | 0 | 0 | 0.080 | ODE |

| | | | | | | |
|---------------------------------|--|--|--|--|--|--|
| * N O T E S * | INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE | | | | | |
| | ENCODER: NONE NONE NONE | | | | | |
| | BRAKE: STEARNS 87,000 NEMA 2 FT-LB: 35 | | | | | |
| | VOLTAGE: 230/460-190/380 HZ: | | | | | |
| | UL: Y-(LEESON UL REC) | | | | | |

| | |
|-------|----------|
| DATE: | 9/6/2018 |
|-------|----------|

Data Sheet

Date: 9/6/2018

140605.00



Data @ **460 V**

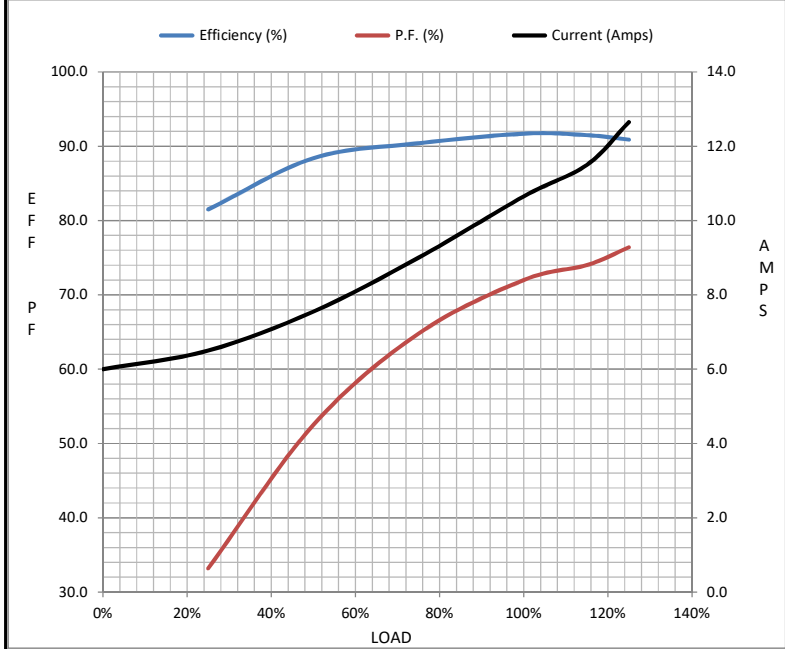
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 6.0 | 6.5 | 7.6 | 9.0 | 10.7 | 11.5 | 12.7 | 73.0 |
| Torque (ft-lb) | 0.00 | 5.5 | 11.0 | 16.6 | 22.3 | 24.5 | 27.9 | 50.0 |
| RPM | 1800 | 1794 | 1787 | 1780 | 1770 | 1,768 | 1765 | 0 |
| Efficiency (%) | | 81.5 | 88.4 | 90.4 | 91.7 | 91.5 | 90.9 | |
| P.F. (%) | 6.2 | 33.2 | 52.5 | 64.8 | 72.0 | 74.0 | 76.4 | 0.0 |

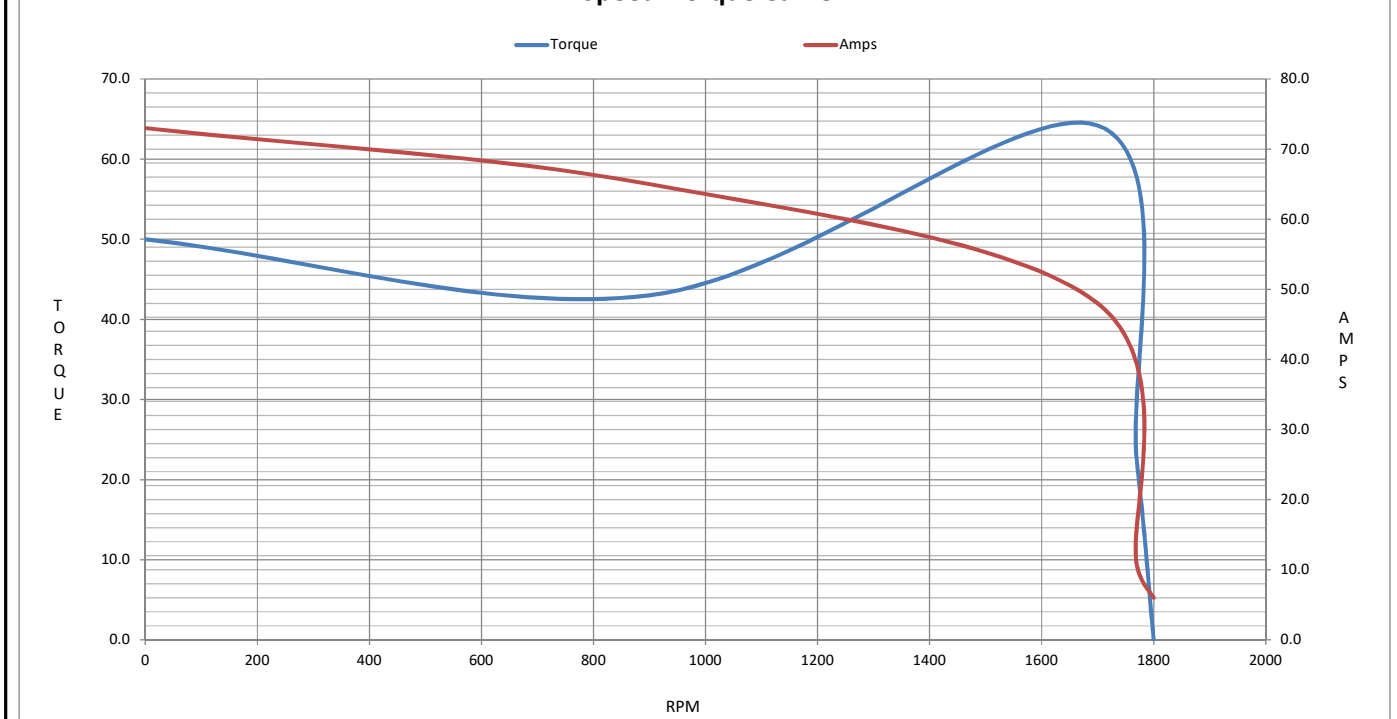
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1700 | 1770 | 1800 |
| Current (Amps) | 73.0 | 65.0 | 48.0 | 10.7 | 6.0 |
| Torque (ft-lb) | 50.0 | 43.0 | 64.2 | 22.3 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 7.5 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 210 | | | |
| Enclosure | TEFC | | | |
| Construction | TFW | | | |
| Voltage | 230/460#190/380 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | J | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 43 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.97 Lb-Ft ² | | | |
| Ref Wdg | T9495 FR | | | |
| Sound Pressure @ 1M | 60 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | 037633-1200 | | | |
| Conn. Diag | 005010.15 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



Speed - Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 140605.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 140605.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22