

PRODUCT INFORMATION PACKET

Model No: 213TTTN16539

Catalog No: U1869

XRI®-SD Severe Duty Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
213TV Frame, TEAO



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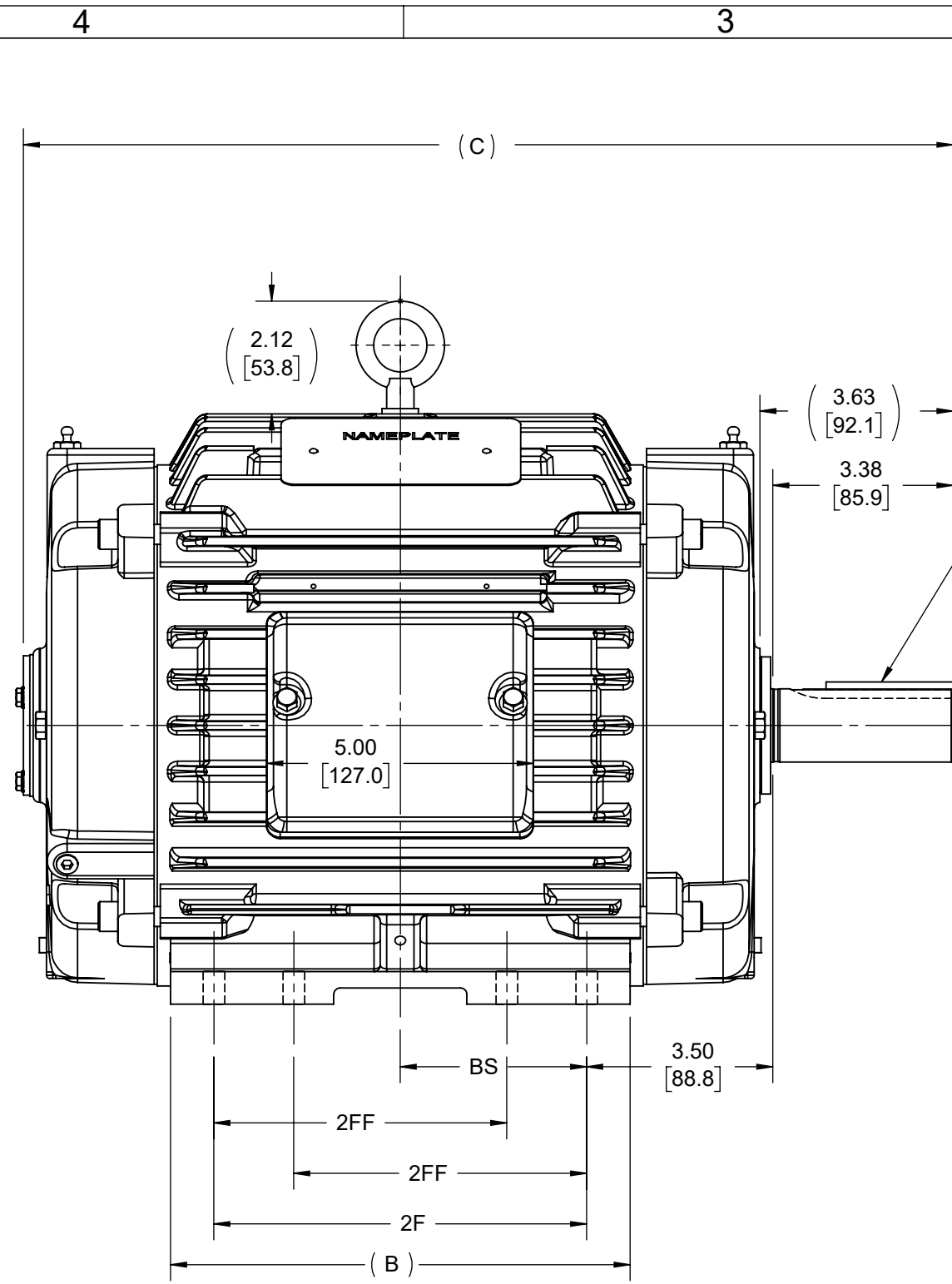
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Nameplate Specifications

| | | | |
|------------------------|----------------------------------|----------------------------|----------------------------------|
| Phase | 3 | Output HP | 7.50 & 5 Hp |
| Output KW | 5.6 & 3.7 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1770 & 1475 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 213TV | Enclosure | Totally Enclosed Air Over |
| Thermal Protection | No Protection | Efficiency | 91.7 & 89.5 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 19.2/9.6 & 16.8/8.4 A | Power Factor | 80 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | H |
| Drive End Bearing Size | 6307 | Opp Drive End Bearing Size | 6208 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 56 |
| Number of Speeds | 1 | | |

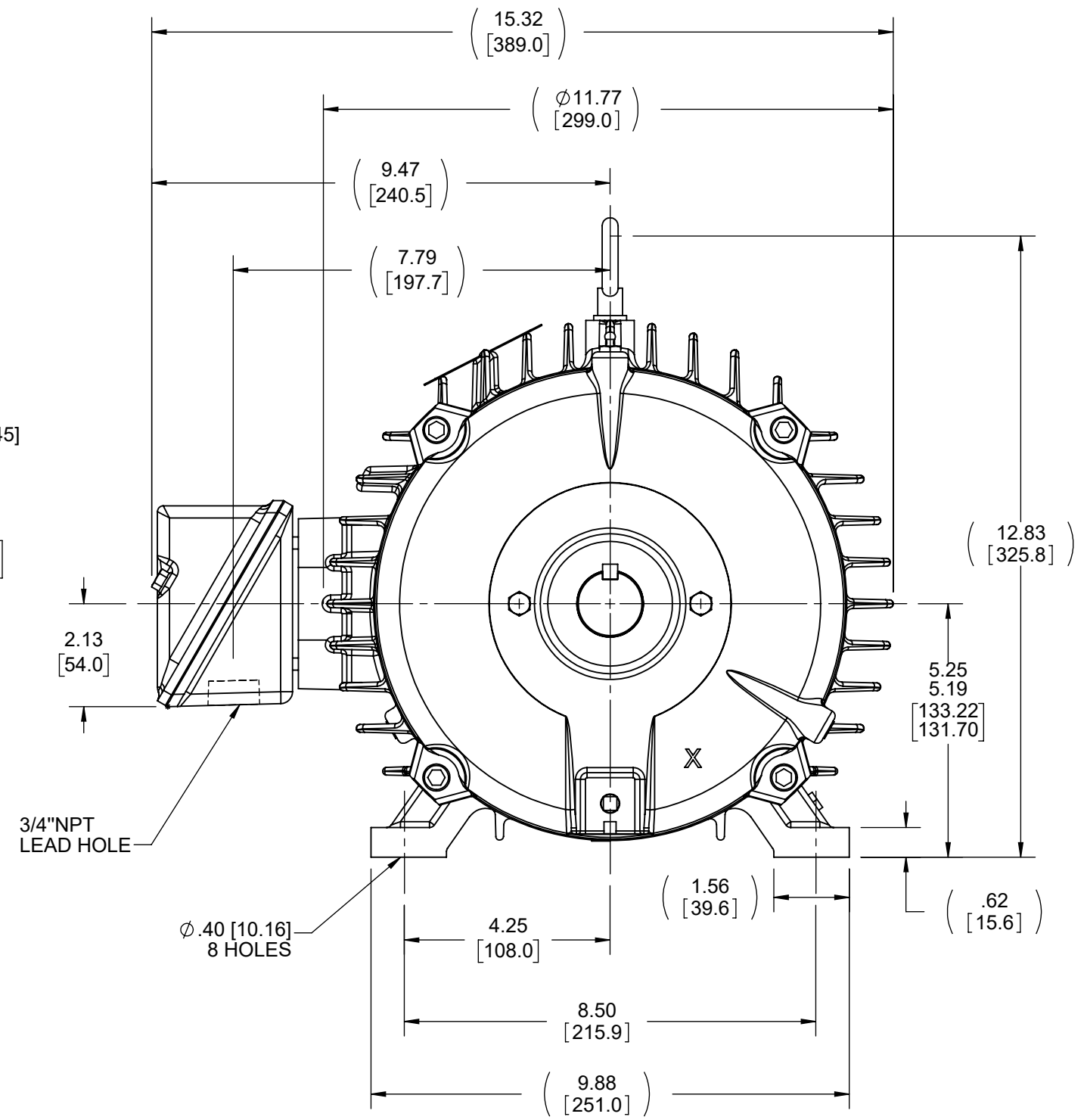
Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 1.17 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal Or Up Or Down | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Overall Length | 17.51 in |
| Frame Length | 9.12 in | Shaft Diameter | 1.375 in |
| Shaft Extension | 3.48 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | 037907-912 | Connection Drawing | A-EE7308 |



.31x.31x2.38
[7.87x7.87x60.45]
KEY

Ø 1.3750
1.3745
[34.9237
[34.9110]



- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| | | | | | | |
|------|---------|-------------------|-------------------|-------------------|------------------|------------------|
| 1212 | 215 | 20.51 [520.95] | 11.76 [298.70] | 10.00 [254.00] | 7.00 [177.80] | 5.00 [127.00] |
| 912 | 213/215 | 17.51 [444.75] | 8.63 [219.20] | 7.00 [177.80] | 5.50 [139.70] | 3.50 [88.90] |
| DASH | FRAME | C | B | 2F | 2FF | BS |

| | | |
|--|-------------------|-----------------------------|
| DRAWING REVISION D | REVISION BY PB | REV DATE/© DATE 11/15/21 |
| REQUEST NUMBER NMR-0210881 | APPROVED BY PB | DATE 11/15/21 |
| REQUEST NUMBER DESCRIPTION Views updated | | |
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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|-------|---------|----------|---------|
| .X | ±0.1 | [±3] | ±7' 30" |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [Ø.08/.38] X 45°
CORNER FILLETS: R.02 [Ø.5]
MACHINED SURFACES: 200/5.1 INCH/mm

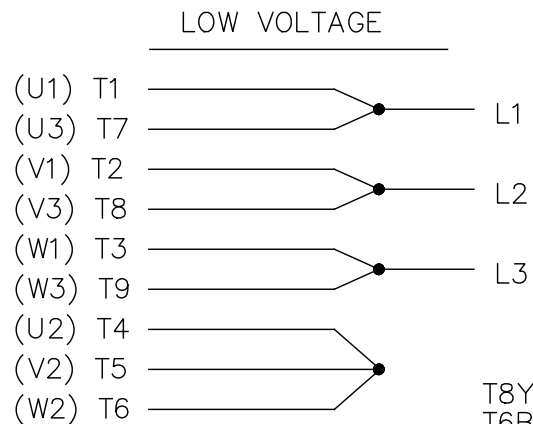
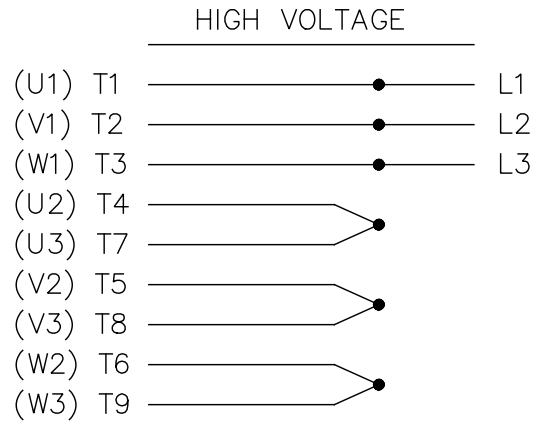
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| |
|------------------------|
| DRAWN BY UD |
| DATE 11-14-2013 |
| APPROVED BY SR |
| DATE 11-14-2013 |
| REFERENCE 037728 |
| THIRD ANGLE PROJECTION |

| | | | |
|-----------------------|----------------|----------------------------|--------------------------|
| Regal Rexnord | | Regal Beloit America, Inc. | |
| DESCRIPTION | | OUTLINE | |
| 210 FR-STD-STD-T-TENV | | | |
| MATERIAL | PROCESS/FINISH | SIZE B | DRAWING NUMBER 037907 |
| | | SHEET 1 OF 1 | |

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



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

| NO. | REVISION | BY & DATE | CHK | ANG | TOLERANCES UNLESS SPECIFIED | | FINISH | DRAWN RM 11/20/1990 | | | | |
|--|--|----------------|-----|-------|--------------------------------|--------|--------------------------|---------------------|--------|--------------------|-----------|--------|
| | | | | | DEC. | INCHES | | | | | | |
| 5 | CHG TO REGAL LOGO | SL 09/10/2015 | AB | | | | | CHK ML 11/21/1990 | | | | |
| 4 | REVISED IEC NOTATIONS | MSG 11/15/2011 | CMN | .X | ±.1 | | | APPD SAS 04/24/2003 | | | | |
| 3 | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010 | MJS | .XX | ±.02 | | TITLE CONNECTION DIAGRAM | SCALE 1=1 | | | | |
| 2 | ADDED THE OPTIONAL CORD CONNECTION MU46318 | RDH 04/24/2003 | DRS | .XXX | ±.005 | | 3Ø - DUAL VOLTAGE MOTOR | REF | | | | |
| 1 | REDRAWN | RM 11/20/1990 | | .XXXX | ±.0005 | | MAT'L. | FMF | | | | |
| | | | | | ±7'30" | | | 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 | CAD FILE ee7308 | SIZE A | DRAWING NO. EE7308 | PAGE OF 5 | REV. 5 |
| | | | | | | | DIST WP | | | | | |



Regal Beloit America, Inc.

Data Sheet

Date: 20-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



213TTTN16539

Submittal

Data @ 460 V

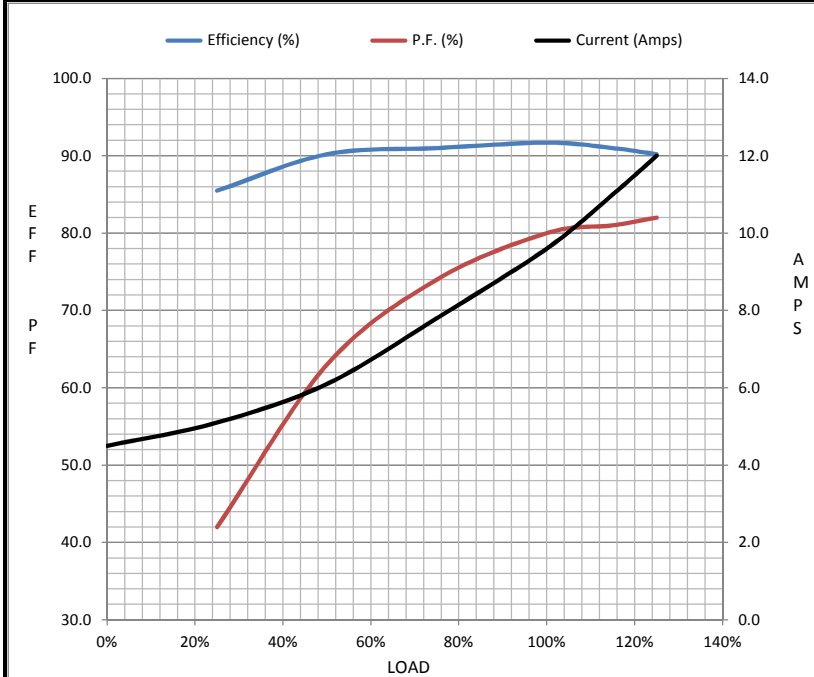
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 4.5 | 5.1 | 6.1 | 7.8 | 9.6 | 11.0 | 12.0 | 63.5 |
| Torque (ft-lb) | 0.00 | 5.5 | 11.0 | 16.5 | 22.3 | 25.5 | 28.0 | 52.0 |
| RPM | 1800 | 1790 | 1785 | 1775 | 1770 | 1,765 | 1760 | 0 |
| Efficiency (%) | | 85.5 | 90.2 | 91.0 | 91.7 | 91.0 | 90.2 | |
| P.F. (%) | 5.5 | 42.0 | 63.0 | 74.0 | 80.0 | 81.0 | 82.0 | 45.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1600 | 1770 | 1800 |
| Current (Amps) | 63.5 | 57.0 | 45.0 | 9.6 | 4.5 |
| Torque (ft-lb) | 52.0 | 49.0 | 72.0 | 22.3 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|---------|
| HP | 7.5 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 213 | | | |
| Enclosure | TEAO | | | |
| Construction | TTS | | | |
| Voltage | 230/460#190/38(V) | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | H | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 0 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.95 Lb-Ft ² | | | |
| Ref Wdg | K2134158 R23 | | | |
| Sound Pressure @ 1M | 999 dBA | | | |
| VFD Rating | CONSTANT 20:1 | | | |
| Outline Dwg | 037907-912 | | | |
| Conn. Diag | A-EE7308 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.5970 | 0.4540 | 2.3440 | 3.5000 | 52.1640 |



Speed - Torque Curve

