

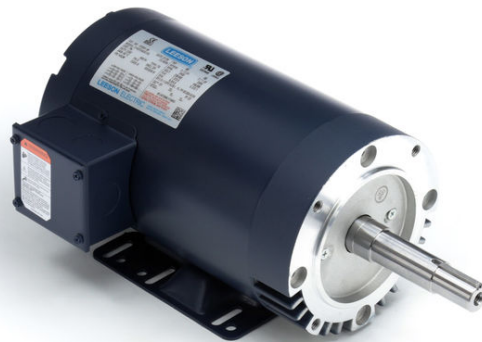
# PRODUCT INFORMATION PACKET



Model No: C143T34DK4A

Catalog No: 122074.00

..1.5 HP..3600RPM.143JM.DP.230/460V.3.60HZ.CONT.40C..RIGID C-FACE.....  
JM



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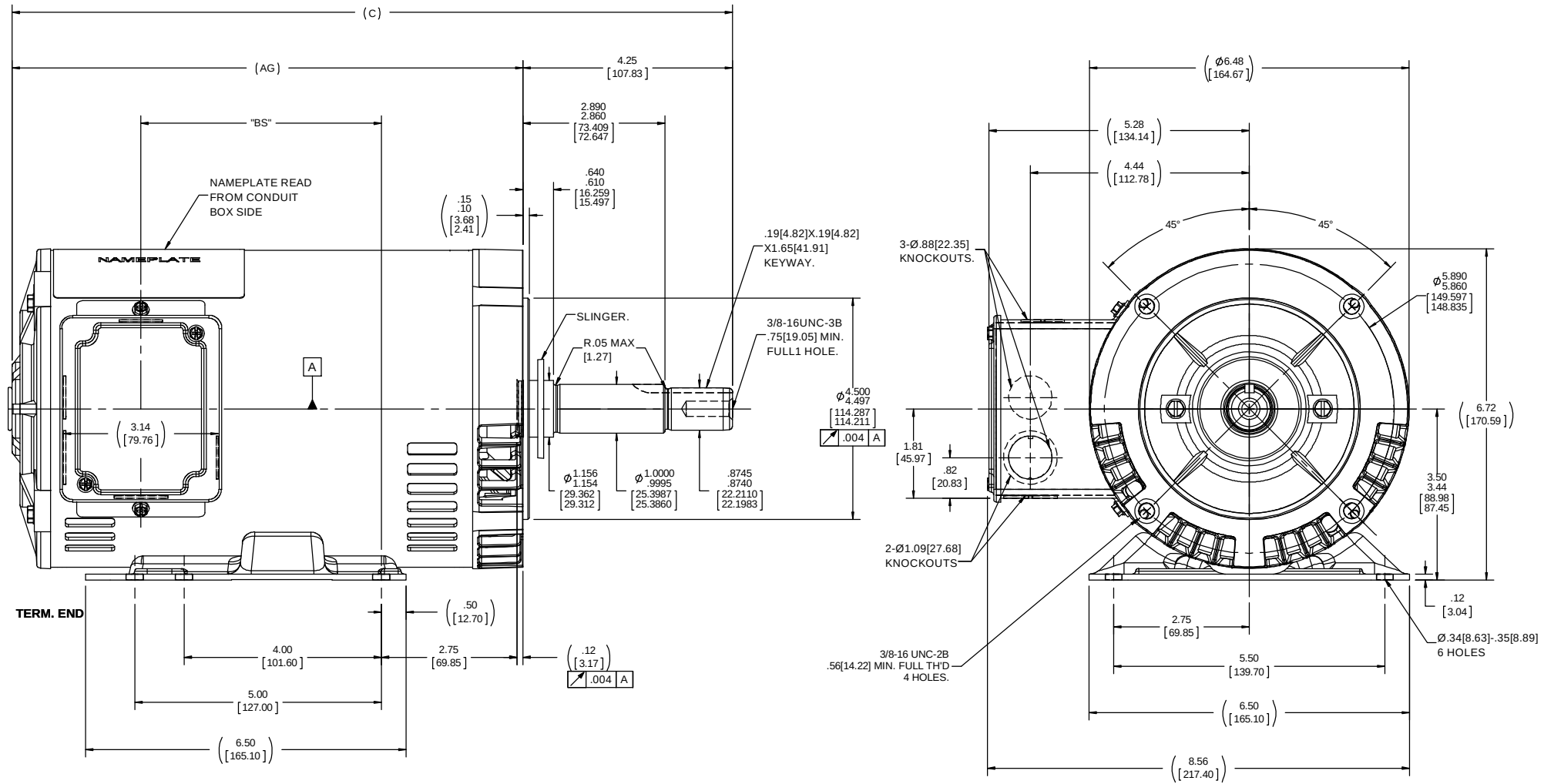


## Nameplate Specifications

|                            |                   |                        |                   |
|----------------------------|-------------------|------------------------|-------------------|
| Output HP                  | <b>1.50 Hp</b>    | Output KW              | <b>1.1 kW</b>     |
| Frequency                  | <b>60 Hz</b>      | Voltage                | <b>230/460 V</b>  |
| Current                    | <b>3.8/1.9 A</b>  | Speed                  | <b>3515 rpm</b>   |
| Service Factor             | <b>1.15</b>       | Phase                  | <b>3</b>          |
| Efficiency                 | <b>86.5 %</b>     | Duty                   | <b>Continuous</b> |
| Insulation Class           | <b>F</b>          | Design Code            | <b>B</b>          |
| KVA Code                   | <b>L</b>          | Frame                  | <b>143JM</b>      |
| Enclosure                  | <b>Drip Proof</b> | Overload Protector     | <b>No</b>         |
| Ambient Temperature        | <b>40 °C</b>      | Drive End Bearing Size | <b>6206</b>       |
| Opp Drive End Bearing Size | <b>6203</b>       | UL                     | <b>Recognized</b> |
| CSA                        | <b>Y</b>          | CE                     | <b>Y</b>          |
| IP Code                    | <b>22</b>         |                        |                   |

## Technical Specifications

|                       |                                     |                       |                         |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method       | <b>Line Or Inverter</b> |
| Poles                 | <b>2</b>                            | Rotation              | <b>Reversible</b>       |
| Mounting              | <b>Rigid base</b>                   | Motor Orientation     | <b>HORIZONTAL</b>       |
| Drive End Bearing     | <b>BALL</b>                         | Opp Drive End Bearing | <b>BALL</b>             |
| Frame Material        | <b>Rolled Steel</b>                 | Shaft Type            | <b>JM</b>               |
| Overall Length        | <b>14.62 in</b>                     | Frame Length          | <b>8.56 in</b>          |
| Shaft Diameter        | <b>0.875 in</b>                     | Shaft Extension       | <b>4.28 in</b>          |
| Assembly/Box Mounting | <b>F1 ONLY</b>                      |                       |                         |
| Outline Drawing       | <b>A-100130LE-856</b>               | Connection Diagram    | <b>A-EE7308-LE</b>      |

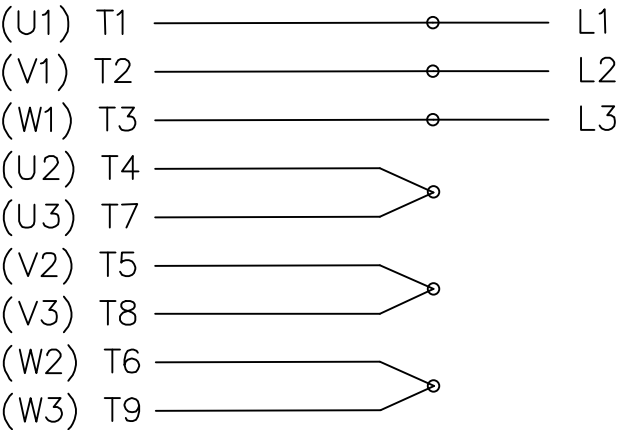


| DASH | "C"            | "AG"           | "BS"          |
|------|----------------|----------------|---------------|
| 656  | 12.61 [320.29] | 8.36 [212.34]  | 2.87 [72.89]  |
| 706  | 13.11 [333.99] | 8.86 [225.04]  | 3.37 [85.59]  |
| 756  | 13.61 [345.69] | 9.36 [237.74]  | 3.87 [98.29]  |
| 806  | 14.11 [358.39] | 9.86 [250.44]  | 4.37 [110.99] |
| 856  | 14.61 [371.09] | 10.36 [263.14] | 4.87 [123.69] |
| 906  | 15.11 [383.79] | 10.86 [275.84] | 5.37 [136.39] |
| 956  | 15.61 [396.49] | 11.36 [288.54] | 5.87 [149.09] |

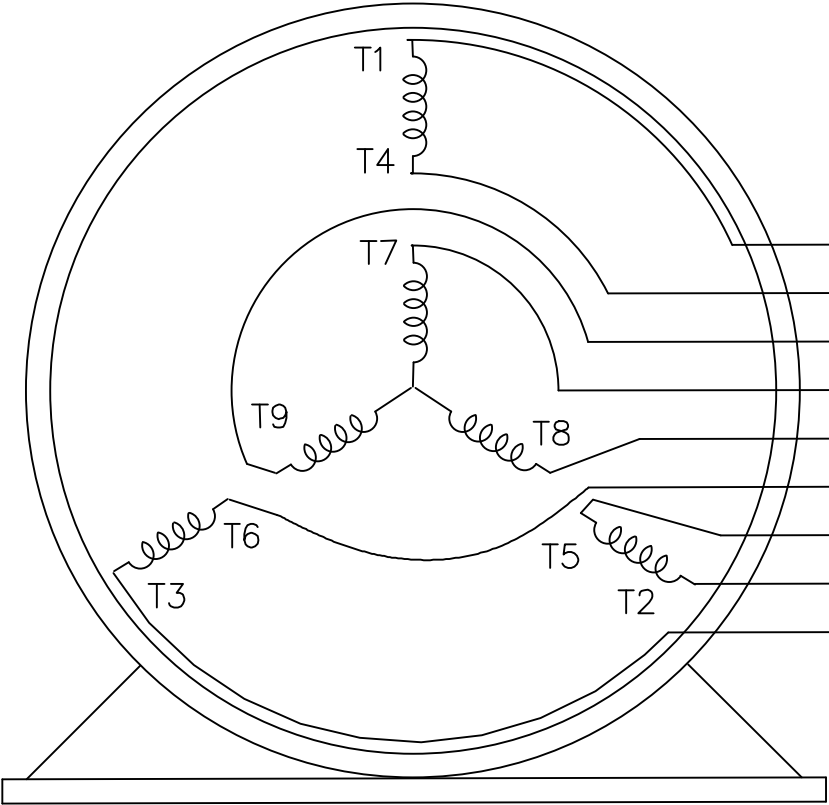
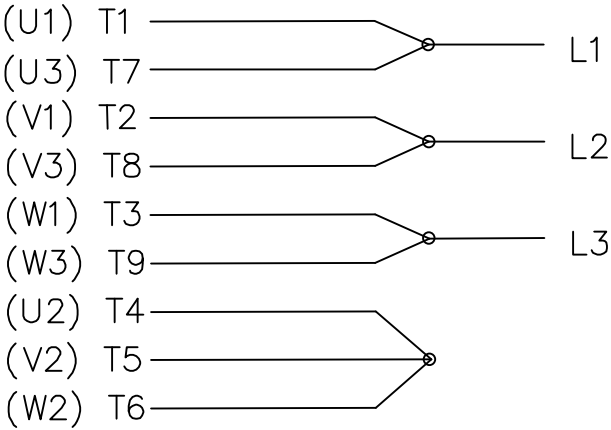
|                       |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                    |                                                                |                    |                       |                           |           |                            |                 |  |  |
|-----------------------|-----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|----------------------------------------------------------------|--------------------|-----------------------|---------------------------|-----------|----------------------------|-----------------|--|--|
| DRAWING REVISION<br>C | REVISION BY<br>A. SUPPANNAR | DATE<br>01/02/2018 | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br>DEC. INCH mm ANGLE<br>.X $\pm 0.1$ [2.5] $\pm 7$ 30"<br>.XX $\pm 0.03$ [0.76]<br>.XXX $\pm 0.005$ [0.127]<br>.XXXX $\pm 0.0005$ [0.0127]<br>REMOVE BURRS & BREAK SHARP<br>EDGES: .003/.015 [0.076/.381] X 45°<br>CORNER FILLETS: R.02 [51]<br>MACHINED SURFACES: 200/5.1<br>mm SHOWN IN [BRACKETS]                                                                                                                                                                                                                                                                                                                                                                                        | DRAWN BY<br>DRS | DATE<br>08/03/2004 | APPROVED BY<br>GK                                              | DATE<br>08/04/2004 | REFERENCE<br>100130LE | THIRD ANGLE<br>PROJECTION | SIZE<br>C | DRAWING NUMBER<br>100130LE | SHEET<br>1 OF 1 |  |  |
| ECO-0143026           |                             |                    | ECO DESCRIPTION<br>OUTLINE CONVERSION PROJECT<br>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br>PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DOCUMENT IS THE PROPERTY OF<br>REGAL BELOIT AMERICA, INC. OWNERSHIP AND CONTAINS OWNERS PROPRIETARY<br>INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEMAND<br>BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br>TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br>AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br>BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br>RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS. |                 |                    | DESCRIPTION<br>OUTLINE<br>140 FR.-DR.PR. 3ø - "C" FACE JM EXT. |                    |                       | MATERIAL                  |           |                            | PROCESS/FINISH  |  |  |

THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



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

VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

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

|                                                                                                                                                                                                                                        |                                                   |                |            |                                |        |                                                                                       |                                             |  |      |                                                     |      |            |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------|------------|--------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------|--|------|-----------------------------------------------------|------|------------|------|
|                                                                                                                                                                                                                                        |                                                   |                |            | TOLERANCES<br>UNLESS SPECIFIED |        |  | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES |  |      | DRAWN HLB 04-29-2002                                |      |            |      |
|                                                                                                                                                                                                                                        |                                                   |                |            | DEC.                           | INCHES |                                                                                       |                                             |  |      | CHK                                                 | ML   | 05-03-2002 |      |
|                                                                                                                                                                                                                                        |                                                   |                |            | .X                             | ±.1    |                                                                                       |                                             |  |      | APPD                                                | GK   | 05-03-2002 |      |
|                                                                                                                                                                                                                                        |                                                   |                |            | .XX                            | ±.01   |                                                                                       |                                             |  |      | TITLE CONNECTION DIAGRAM<br>3Ø – DUAL VOLTAGE MOTOR |      |            |      |
| 2                                                                                                                                                                                                                                      | ADDED IEC NOTATIONS... (U1), (V1) ETC. (MU105786) | REP 01-11-2012 | DR         | .XXX                           | ±.005  | REF                                                                                   |                                             |  |      |                                                     |      |            |      |
| 1                                                                                                                                                                                                                                      | NEW DRAWING                                       | HLB 05-03-2002 | ML         | .XXXX                          | ±.0005 | MAT'L.                                                                                |                                             |  |      | FMF                                                 |      |            |      |
| NO.                                                                                                                                                                                                                                    | REVISION                                          | BY & DATE      | CHK        | ANG                            | ±1/2'  | FINISH                                                                                |                                             |  |      | PREV                                                |      |            |      |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT<br>IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT |                                                   |                | RFP        |                                |        | CAD FILE EE7308-LE                                                                    |                                             |  | SIZE | DRAWING NO.                                         | PAGE | OF         | REV. |
|                                                                                                                                                                                                                                        |                                                   |                | DIST LB-WP |                                |        |                                                                                       |                                             |  | A    | EE7308-LE                                           |      |            | 2    |

Data Sheet

Date: 1/24/2018

122074.00



Data @ 460 V

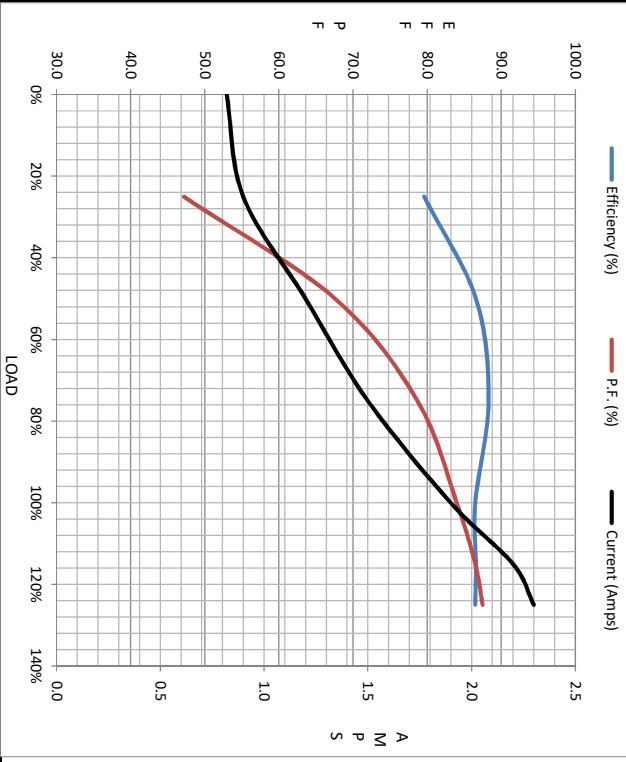
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |
|----------------|------|------|------|------|------|------|------|------|
| Current (Amps) | 0.82 | 0.90 | 1.20 | 1.50 | 1.90 | 2.20 | 2.30 | 18.6 |
| Torque (ft-lb) | 0.00 | 0.55 | 1.10 | 1.68 | 2.25 | 2.60 | 2.80 | 6.8  |
| RPM            | 3600 | 3580 | 3560 | 3540 | 3515 | 3505 | 3495 | 0    |
| Efficiency (%) |      |      |      |      |      |      |      |      |
| P.F. (%)       | 14.3 | 47.2 | 67.6 | 78.7 | 84.0 | 86.5 | 87.5 | 62.5 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 215     | 2700 | 3515  | 3600 |
| Current (Amps) | 18.6 | 18.7    | 11.7 | 1.90  | 0.82 |
| Torque (ft-lb) | 6.8  | 5.7     | 10.0 | 2.25  | 0.00 |

| Information Block |      |
|-------------------|------|
| HP                | 1.5  |
| Sync. RPM         | 3600 |



|                            |                  |        |        |          |
|----------------------------|------------------|--------|--------|----------|
| Enclosure                  | DP               |        |        |          |
| Construction               | TDR              |        |        |          |
| Voltage                    | 230/460# 190/380 |        | V      |          |
| Frequency                  | 60               |        | Hz     |          |
| Design                     | A                |        |        |          |
| LR Code letter             | L                |        |        |          |
| Service Factor             | 1.15             |        |        |          |
| Temp Rise @ FL             | 20 ° C           |        |        |          |
| Duty                       | CONT             |        |        |          |
| Ambient                    | 40 ° C           |        |        |          |
| Elevation                  | 1,000 feet       |        |        |          |
| Rotor/Shaft wk²            | 0.00 Lb-Ft²      |        |        |          |
| Rel Wdg                    | Z12168 DR        |        |        |          |
| Sound Pressure @ 1M        | 68               |        | dBA    |          |
| VFD Rating                 | CONSTANT 10:1    |        |        |          |
| Outline Dwg                | A-100130LE-866   |        |        |          |
| Conn. Diag                 | A-EE7308-LE      |        |        |          |
| Additional Specifications: |                  |        |        |          |
| 0                          |                  |        |        |          |
| 0                          |                  |        |        |          |
| EQUIV CKT (OHMS / PHASE)   |                  |        |        |          |
| R1                         | R2               | X1     | X2     | Xm       |
| 5.2950                     | 3.7820           | 9.2650 | 9.4550 | 359.2900 |

Speed -Torque Curve

