

PRODUCT INFORMATION PACKET

Model No: 324TSTFS6001

Catalog No: E224

40 HP General Purpose Motor, 3 phase, 3600 RPM, 230/460 V, 324TS Frame, TEFC
General Purpose Motors



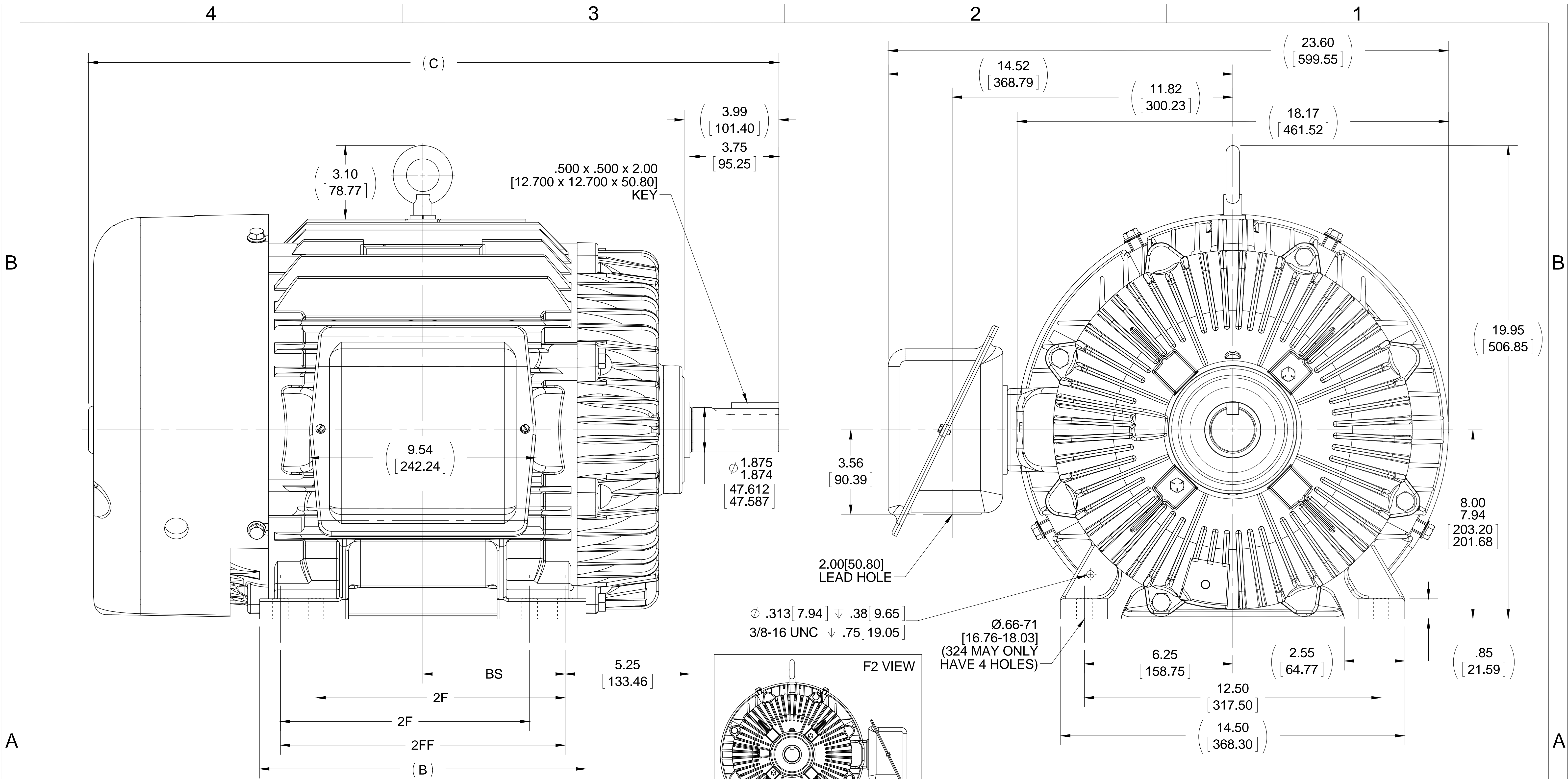
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Nameplate Specifications

| | | | |
|------------------------|--------------------|----------------------------|------------------------------------|
| Output HP | 40 Hp | Output KW | 30.0 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 94.0/47.0 A | Speed | 3545 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 93.6 % | Power Factor | 85 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 324TS | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6311 |
| 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 | .122 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Overall Length | 27.60 in |
| Frame Length | 11.50 in | Shaft Diameter | 1.875 in |
| Shaft Extension | 4 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7308K | Outline Drawing | B-SS28290-1150 |



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

| DASH | FRAME | B | C | 2F | 2FF | BS |
|------|-----------------|-------------------|-------------------|-------------------|-------------------|------------------|
| 1150 | 324TS | 13.00 [330.20] | 27.60 [701.04] | ----- | 10.50 [266.70] | 5.25 [133.35] |
| 1300 | 324TS/ 326TS | 13.75 [349.25] | 29.10 [739.14] | 10.50 [266.70] | 12.00 [304.80] | 6.00 [152.40] |

| | | |
|---|------------------------|--------------------|
| DRAWING REVISION R | REVISION BY J. OTTO | DATE 07-01-2016 |
| ECO ECO-0105252 | APPROVED BY T. VUE | DATE 07-01-2016 |
| ECO DESCRIPTION REVISED TABLE FOR -1300 | | |
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

| DEC. | INCH | mm | ANGLE |
|-------|---------|-----------|---------|
| .X | ±0.1 | [±2.5] | ±7° 30" |
| .XX | ±0.03 | [±0.76] | |
| .XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
 CORNER FILLETS: R.02 [.51]
 MACHINED SURFACES: 200 INCH/mm 5.1
 mm SHOWN IN [BRACKETS]

| |
|------------------------|
| DRAWN BY MRB |
| DATE 11-03-1997 |
| APPROVED BY GK |
| DATE 11-03-1997 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | |
|---|----------------------------------|
| REGAL ™ Regal Beloit America, Inc. | |
| DESCRIPTION OUTLINE 320TS FR.-TEFC-SHEET METAL C'BOX | |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS28290 |
| SHEET 1 OF 1 | |

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

| | | | | TOLERANCES UNLESS SPECIFIED | |  REGAL - BELOIT CORPORATION | DRAWN PGK 06-04-1997 | | | |
|--|--------------------------------|-------------|-----|-----------------------------|------------------|--|----------------------|--------------------------|---------------------|------|
| NO. | REVISION | BY & DATE | CHK | ANG | ± | | UNIT | CHK | ML 06-05-1997 | |
| E | CORRECTED IEC MARKINGS | ECO-0111208 | WGJ | 01-23-2017 | EMH | DEC. | INCHES | APPD | GK 06-15-1997 | |
| D | RE-DRAWN WITH REGAL LOGO | ECO-0110493 | WGJ | 09-30-2016 | EMH | .X | ±.1 | TITLE CONNECTION DIAGRAM | | |
| 8 | ADDED IEC DESIGNATIONS | MU95020 | TJW | 4/30/2010 | MJS | .XX | ±.02 | SCALE | | |
| 7 | REVISED HIGH VOLTAGE L2 WAS L3 | CN52600-354 | MRB | 09-21-1998 | | .XXX | ±.005 | REF | | |
| 6 | REDRAWN ON CADD | | PGK | 06-05-1997 | | .XXXX | ±.0005 | 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 EE7308K | | | SIZE | DRAWING NO. PAGE OF | REV. |
| | | | | DIST | | | | A | EE7308K | E |

CERTIFICATION DATA SHEET

Model#: 324TSTFS6001 DU
CONN. DIAGRAM: A-EE7308K
OUTLINE: B-SS28290-1150

WINDING#: 324248 NONE 6
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|----|-----------|----------|-------|-----------|----------|--------|
| 40 | 30 | 3600 | 3545 | 324TS | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|---------|-----------------|------------|------|------|-------|-----------|
| 3 | 60 | 230/460 | 94/47 | ACROSS THE LINE | CONTINUOUS | F3 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 93.6 | 3/4 LOAD EFF: 93.6 | 1/2 LOAD EFF: 92.4 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 85 | 3/4 LOAD PF: 83 | 1/2 LOAD PF: 76 | 93 | SQ CAGE IND RUN | 29.4 / 14.7 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|----------------|---------------|-------------|
| 59.5 LB-FT | 550 / 275 | 91.5 LB-FT 154 | 157 LB-FT 264 | 60 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|------------|-----------------|--------------|-------------------|
| 72 dBA | 82 dBA | 4.9 LB-FT^2 | 25 LB-FT^2 | 15 SEC. | 2 | 625 LBS. |

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

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 6311 | | | | | | |

| 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

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|---------------------------|
| INVERTER TORQUE: NONE |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE |
| NONE NONE |
| NONE NONE PPR |
| BRAKE: NONE NONE |
| NONE P/N NONE |
| NONE NONE |
| - FT-LB NONE V NONE Hz |

DATE: 06/21/2017 03:50:27 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

324TSTFS6001

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

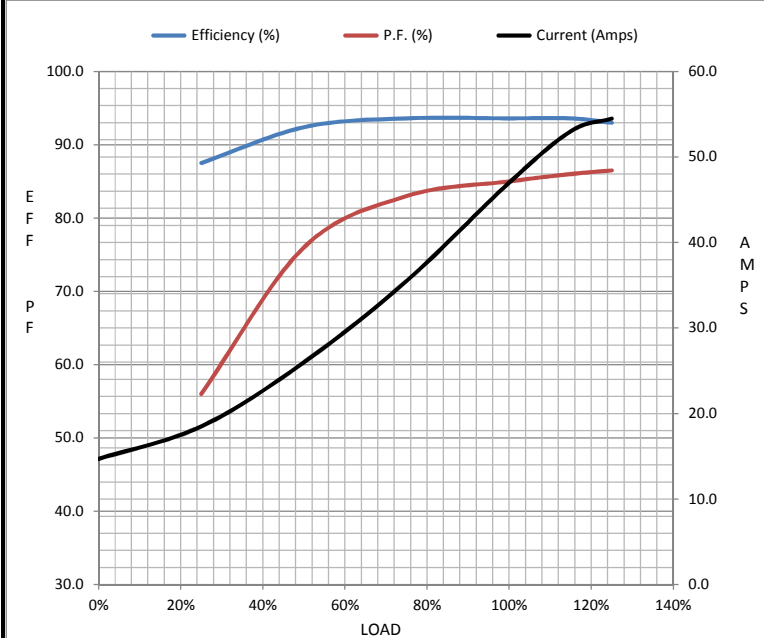
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 14.7 | 18.5 | 26.0 | 35.5 | 47.0 | 53.0 | 54.5 | 275 |
| Torque (ft-lb) | 0.00 | 14.5 | 29.5 | 44.0 | 59.5 | 68.5 | 74.5 | 91.5 |
| RPM | 3600 | 3590 | 3575 | 3560 | 3545 | 3,540 | 3530 | 0 |
| Efficiency (%) | | 87.5 | 92.4 | 93.6 | 93.6 | 93.6 | 93.0 | |
| P.F. (%) | 9.3 | 56.0 | 76.0 | 83.0 | 85.0 | 86.0 | 86.5 | 29.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 1800 | 3300 | 3545 | 3600 |
| Current (Amps) | 275 | 248 | 172 | 47.0 | 14.7 |
| Torque (ft-lb) | 91.5 | 82.0 | 157 | 59.5 | 0.00 |

Information Block

| | | | | |
|-----------------------------|------------------------|--------|--------|---------|
| HP | 40.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 324 | | | |
| Enclosure | TEFC | | | |
| Construction | TFN | | | |
| Voltage | 230/460 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 60 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 4.9 Lb-Ft ² | | | |
| Ref Wdg | 324248 NONE | | | |
| Sound Pressure @ 1M | 72 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | B-SS28290-1150 | | | |
| Conn. Diag | A-EE7308K | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0750 | 0.0720 | 0.6480 | 0.4750 | 18.6730 |



Speed -Torque Curve

