# Vertical Pump Motors

**Model No:** 365TTDS16101
**Catalog No:** M732

Vertical Pump Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 365HPV Frame, DP

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# Product Information Packet: Model No: 365TTDS16101, Catalog No: M732  Vertical Pump Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 365HPV Frame, DP

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **40 Hp** |
| Output KW | **30.0 kW** | Voltage | **230/460 V** |
| Speed | **875 r/min** | Synchronous RPM | **900 r/min** |
| Service Factor | **1.15** | Frame | **365HPV** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **91.7 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **105.0/52.5 A** |
| Power Factor | **78** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **F** | Drive End Bearing Size | **6312** |
| Opp Drive End Bearing Size | **7312** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **22** | Number of Speeds | **1** |

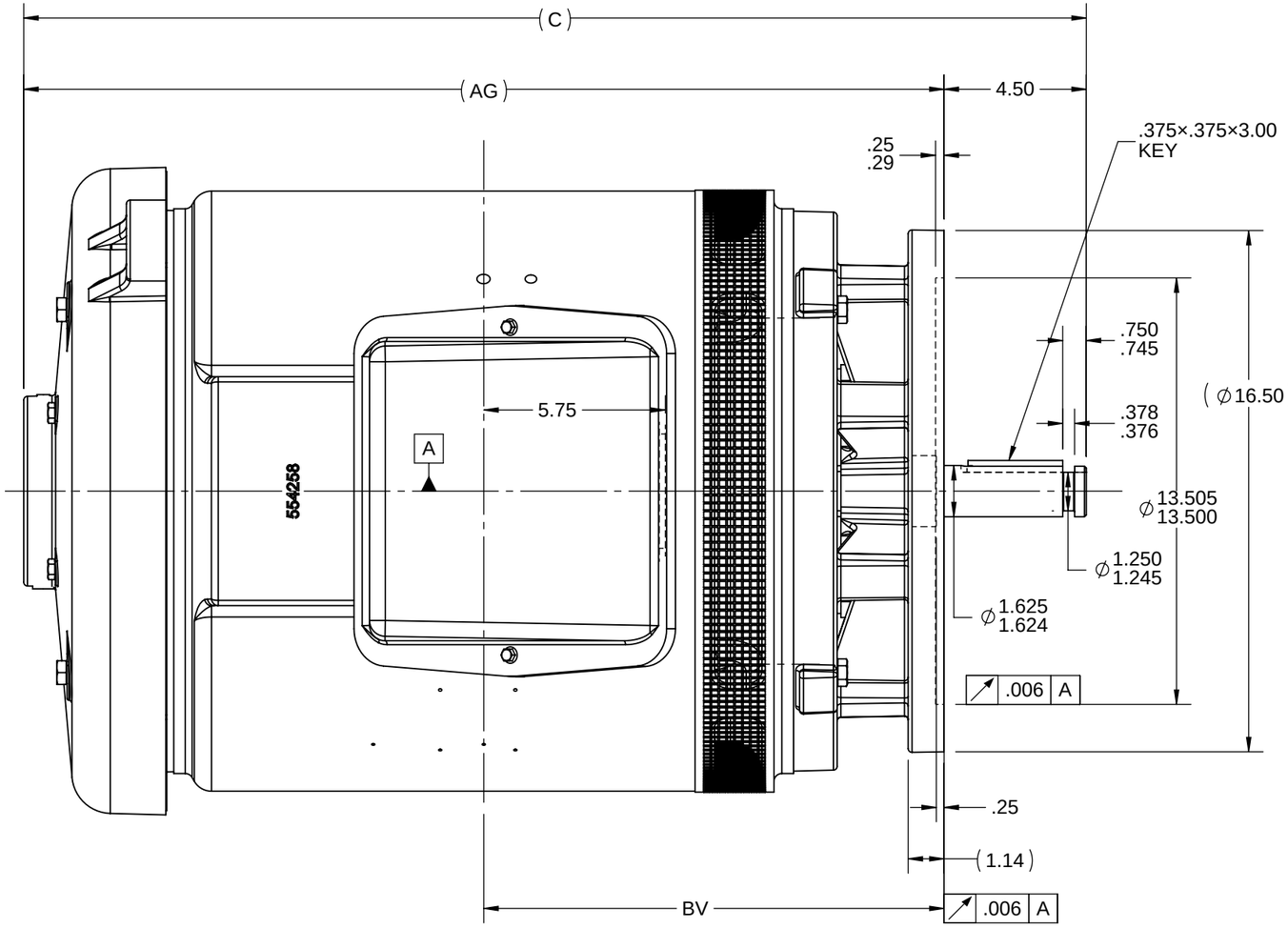
## Technical Specifications

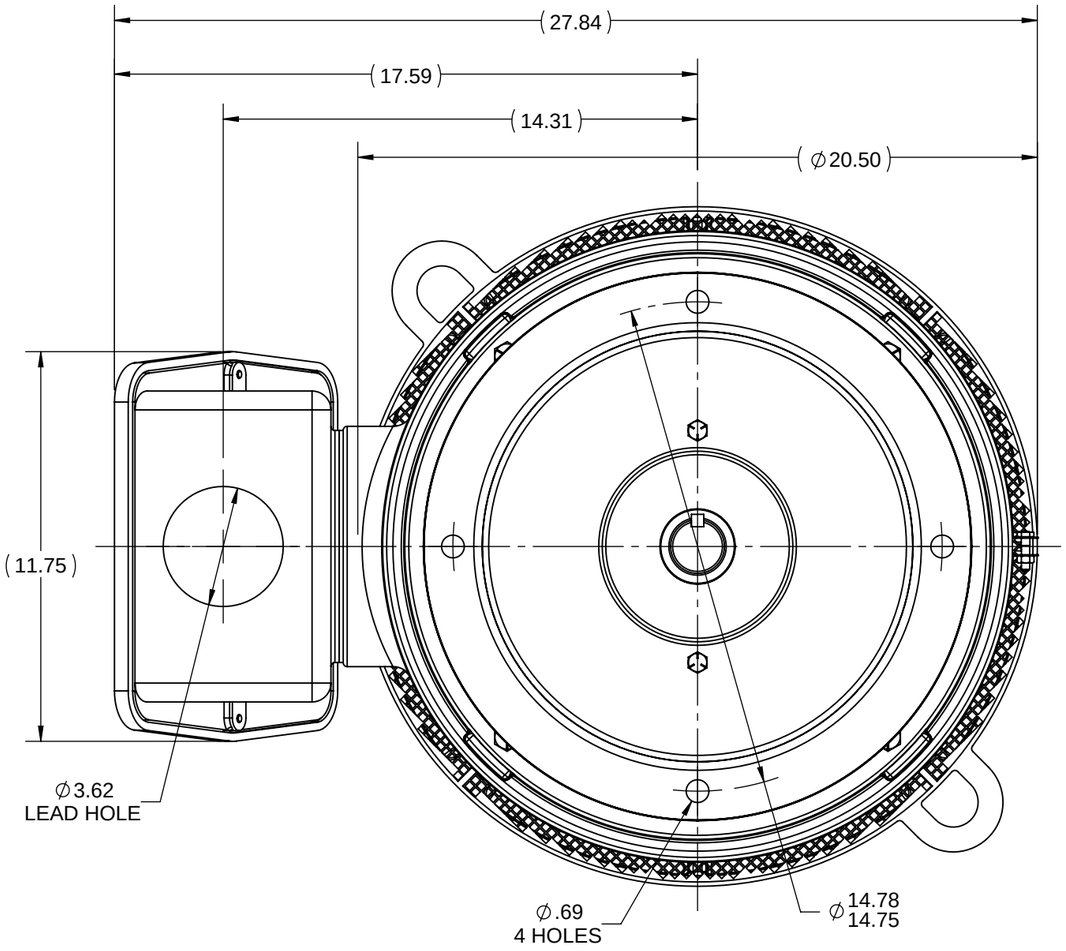
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **8** | Rotation | **Reversible** |
| Resistance Main | **.215 O** | Mounting | **Round** |
| Motor Orientation | **Shaft Down** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Double Angular Contact** | Frame Material | **Cast Iron** |
| Shaft Type | **HP** | Overall Length | **33.65 in** |
| Frame Length | **19.62 in** | Shaft Diameter | **1 5/8 in** |
| Shaft Extension | **4.5 in** | Assembly/Box Mounting | **F1/F2 Capable** |

## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308** | Outline Drawing | **B-SS554645-1962** |

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR.

| DASH | FRAME | C | AG | BV |
|---|---|---|---|---|
| 1962 | 360HP | 33.65 | 29.15 | 14.58 |

| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| D | SV | 05/27/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026396 | RMS | 05/27/2026 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK 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 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/ 5.1/
INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | TJW |
| DATE | 10-04-2011 |
| APPROVED BY | LMC |
| DATE | 10-05-2011 |
| REFERENCE | SS503458 |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
360HP FR. - DR.PR. - P'BASE

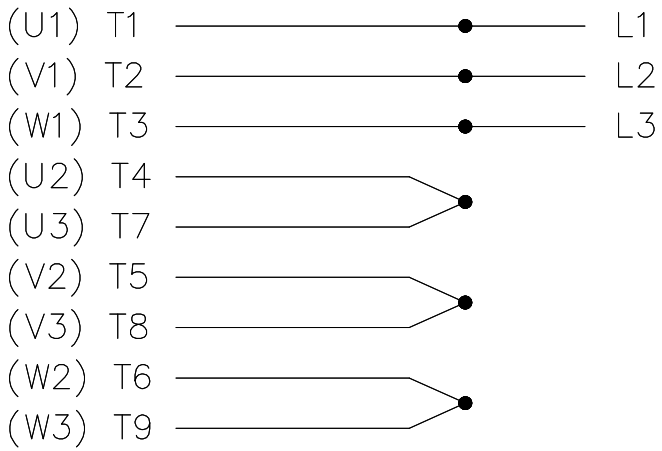
MATERIAL | PROCESS/FINISH

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS554645 | 1 OF 1 |

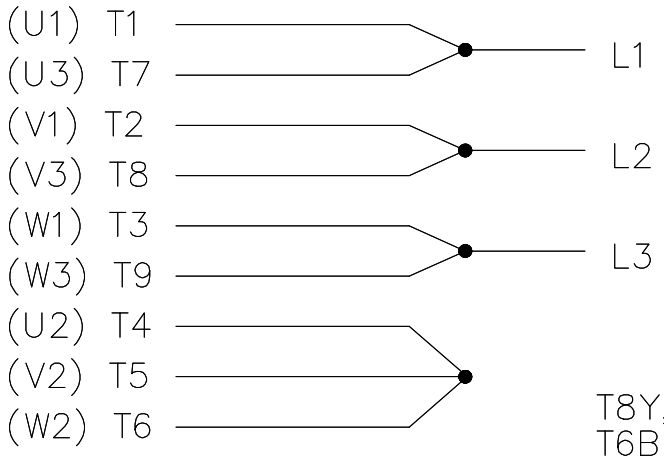
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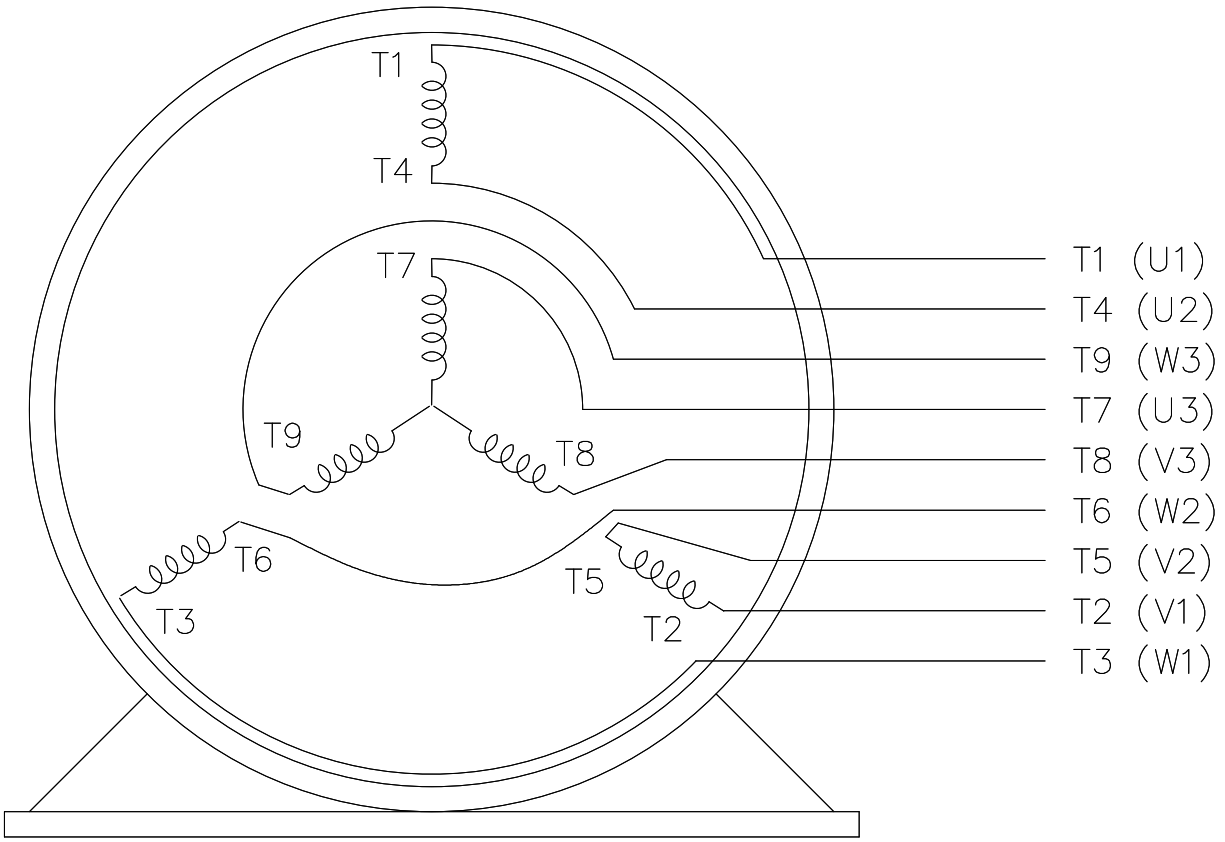
# THREE PHASE
# DUAL VOLTAGE MOTOR

## HIGH VOLTAGE




## LOW VOLTAGE




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

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DESCRIPTION
# CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

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

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 7 EE7308 | 1 OF 1 |

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# Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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365TTDS16101

**Submittal**

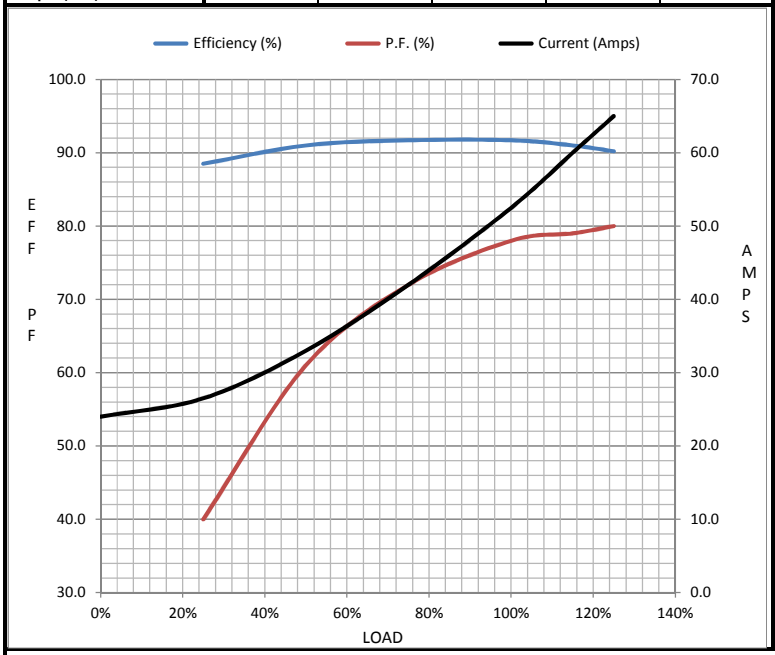
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 24.0 | 26.5 | 33.0 | 42.0 | 52.5 | 60.0 | 65.0 | 270 | |
| Torque (ft-lb) | 0.00 | 59.0 | 118 | 179 | 240 | 278 | 302 | 325 | |
| RPM | 900 | 895 | 888 | 882 | 875 | 872 | 868 | 0 | |
| Efficiency (%) | | 88.5 | 91.0 | 91.7 | 91.7 | 91.0 | 90.2 | | |
| P.F. (%) | 4.5 | 40.0 | 61.0 | 72.0 | 78.0 | 79.0 | 80.0 | 30.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 400 | 775 | 875 | 900 |
| Current (Amps) | 270 | 250 | 180 | 52.5 | 24.0 |
| Torque (ft-lb) | 325 | 275 | 570 | 240 | 0.00 |



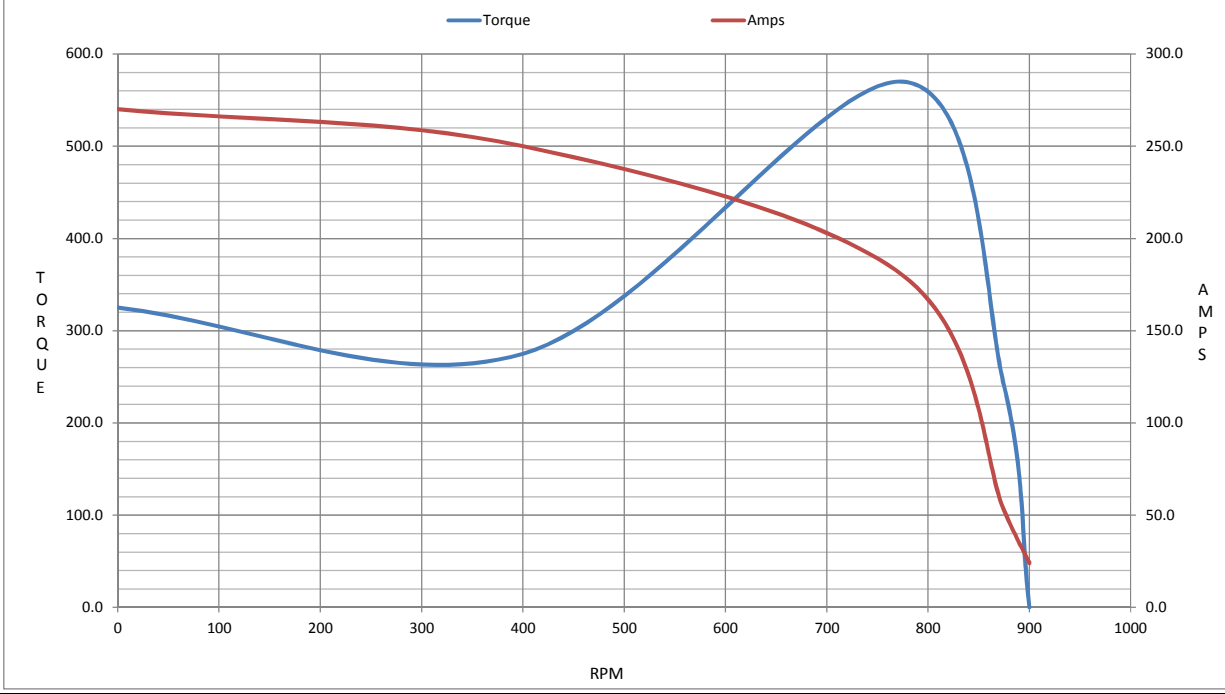

## Information Block

| | |
|---|---|
| HP | 40.0 |
| Sync. RPM | 900 |
| Frame | 365 |
| Enclosure | DP |
| Construction | TDS |
| Voltage | 230/460 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | F |
| Service Factor | 1.15 |
| Temp Rise @ FL | 60 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 15.0 Lb-Ft² |
| Ref Wdg | T365849 NONE |
| Sound Pressure @ 1M | 66 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS554645-1962 |
| Conn. Diag | A-EE7308 |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.1210 | 0.1420 | 0.6950 | 0.6910 | 10.8620 |

## Speed -Torque Curve



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 365TTDS16101 AN | **WINDING#:** | T365849 NONE 1 |
| **CONN. DIAGRAM:** | A-EE7308 | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | B-SS554645-1962 | | |

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 40 | 30 | 900 | 875 | 365HPV | DP | F | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | 230/460 | 105/52.5 | ACROSS THE LINE | CONTINUOUS | F1 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 91.7 | 3/4 LOAD EFF: 91.7 | 1/2 LOAD EFF: 91 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 78 | 3/4 LOAD PF: 72 | 1/2 LOAD PF: 61 | 91 | SQ CAGE IND RUN | 48 / 24 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 240 LB-FT | 540 / 270 | 325 LB-FT 135 | 570 LB-FT 240 | 60 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 66 dBA | 76 dBA | 15 LB-FT^2 | - LB-FT^2 | 20 SEC. | - | 850 LBS. |

### *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| P-BASE | STANDARD | ROUND | SHAFT DOWN | FALSE | NONE | TRUE | RODENT | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL | DUPLEX TANDEM ANGULAR CONTACT | POLYREX EM | HP | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 7312 2 | | | | | | |

| 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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