

PRODUCT INFORMATION PACKET

Model No: 256TTFNA16574
Catalog No: U872A
20,1800,TEFC,256T,3/60/230/460
Cooling Tower



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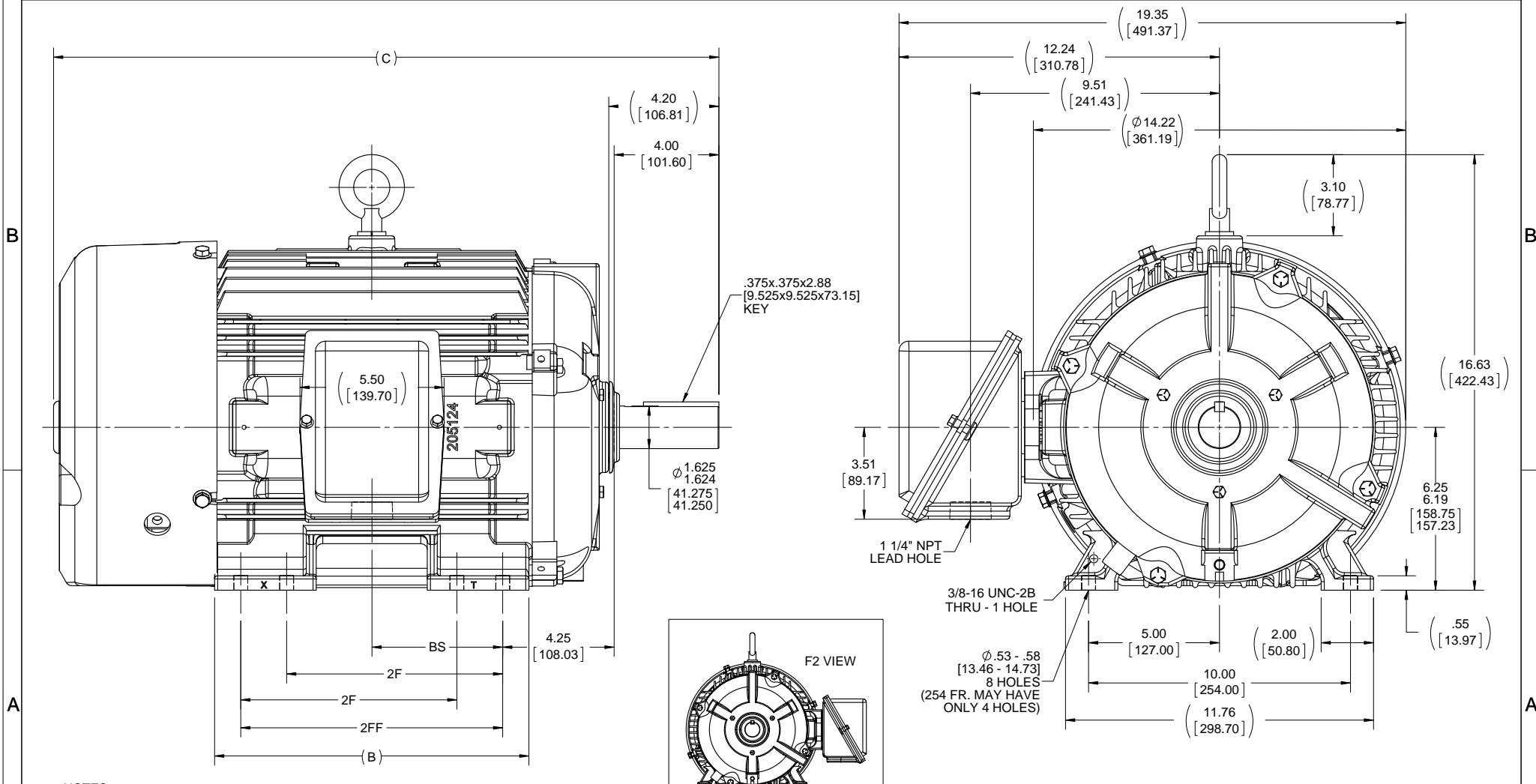
Nameplate Specifications

| | | | |
|----------------------------|------------------|------------------------|-------------------|
| Output HP | 20 Hp | Output KW | 14.9 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 48/24.1 A | Speed | 1775 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 93 % | Duty | CONTINUOUS |
| Insulation Class | F | Design Code | B |
| KVA Code | G | Frame | 256T |
| Enclosure | TEFC | Overload Protector | NOT |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6309 |
| Opp Drive End Bearing Size | 6210 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 55 | | |

Technical Specifications

| | | | |
|-----------------------|--------------------------|-----------------------|-------------------------|
| Electrical Type | SQ CAGE INV RATED | Starting Method | LINE OR INVERTER |
| Poles | 4 | Rotation | REV |
| Mounting | RIGID | Motor Orientation | HORIZONTAL |
| Drive End Bearing | BALL | Opp Drive End Bearing | BALL |
| Frame Material | CAST IRON | Shaft Type | T |
| Overall Length | 25.4 in | Frame Length | 12.25 in |
| Shaft Diameter | 1.63 in | Shaft Extension | 4.2 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | | |
| Outline Drawing | B-SS203002-1225 | Connection Diagram | A-EE7308 |

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NOTES:
 1. CONDUIT BOX CAN BE ROTATED ON ITS AXIS.
 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.

| | | |
|-----------------------|----------------------------|--------------------|
| DRAWING REVISION E | REVISION BY M GERTSCHEN | DATE 11-17-2016 |
| ECO-0112972 | APPROVED BY T VUE | DATE 11-17-2016 |

ECO DESCRIPTION
 UPDATED TO CURRENT STANDARDS
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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: 200/5.1 INCH/mm

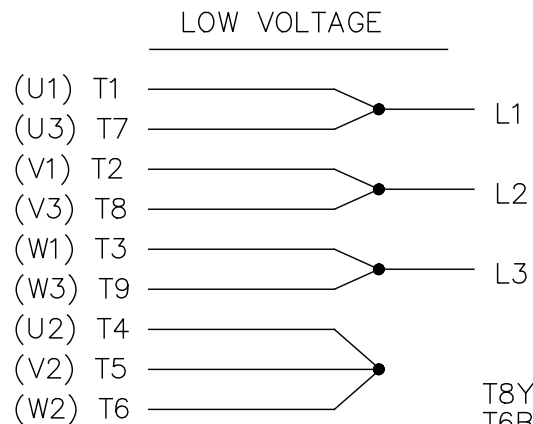
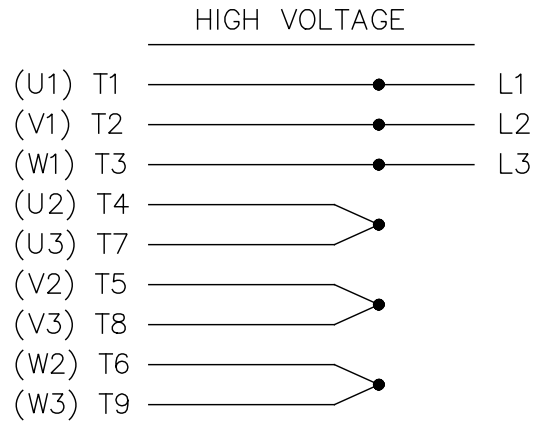
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|-----------------------|------------------------|
| DRAWN BY TVUE | DATE 12-18-2013 |
| APPROVED BY TBROWN | DATE 12-18-2013 |
| REFERENCE | THIRD ANGLE PROJECTION |

| | |
|---|-----------------------------------|
| REGAL ™ Regal Beloit America, Inc. | |
| OUTLINE 250T FR. - TEFC - BB - STD. | |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS203002 |
| | SHEET 1 OF 1 |

| | | | | | | |
|------|----------|-------------------|-------------------|------------------|-------------------|------------------|
| 1050 | 254T | 23.65 [600.71] | 10.25 [260.35] | --- | 8.25 [209.55] | 4.25 [107.95] |
| 1225 | 254/256T | 25.40 [645.16] | 12.00 [304.80] | 8.25 [209.55] | 10.00 [254.00] | 5.00 [127.00] |
| DASH | FRAME | C | B | 2F | 2FF | BS |

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 | | | | |
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| | | | | | | | DIST WP | | | | | |



Regal Beloit America, Inc.

3Ø - DUAL VOLTAGE MOTOR

CERTIFICATION DATA SHEET

Model#: 256TTFNA16574 AA **WINDING#:** K2564164 NONE 6
CONN. DIAGRAM: A-EE7308 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS203002-1225

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 20&15 | 14.9&11.2 | 1800 | 1775&1475 | 256T | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|-------|---------------------|---------------|---------------------|----------------|------|-----------|-------|-----------|
| 3 | 60/50 | 230/460#190/ 380 | 48/24.1&44/22 | LINE OR INVERTER | CONTINUOU S | F3 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 93&92.5 | 3/4 LOAD EFF: 93.6 | 1/2 LOAD EFF: 93 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------------|--------------------|------------------|----------|-------------------|--------------|
| FULL LOAD PF: 84&83.5 | 3/4 LOAD PF: 81 | 1/2 LOAD PF: 72 | 92.4 | SQ CAGE INV RATED | 17 / 8.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 59.2 LB-FT | 276 / 138 | 105 LB-FT 177 | 146 LB-FT 247 | 65 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|-------------|-------------|-----------------|-----------------|----------------------|
| 65 dBA | 75 dBA | 3.2 LB-FT^2 | 125 LB-FT^2 | 25 SEC. | 2 | 400 LBS. |

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

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6309 | 6210 | | | | | | |

| 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: CONSTANT 10:1 |
| INV. HP SPEED RANGE: 1.5 X BASE SPEED |
| 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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