

# PRODUCT INFORMATION PACKET

Model No: 405TTFS16103  
Catalog No: L427A  
60,900,TEFC,405T,3/60/460  
Totally Enclosed Fan Cooled (TEFC)



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### Nameplate Specifications

Output HP	<b>60 Hp</b>	Output KW	<b>45.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>80.0 A</b>	Speed	<b>890 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>93.6 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>405T</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6316</b>
Opp Drive End Bearing Size	<b>6313</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>8</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>Cast Iron</b>	Shaft Type	<b>T</b>
Overall Length	<b>37.14 in</b>	Frame Length	<b>16.75 in</b>
Shaft Diameter	<b>2.875 in</b>	Shaft Extension	<b>7.25 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>B-SS508859-1675</b>	Connection Diagram	<b>A-EE7300</b>

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3

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2

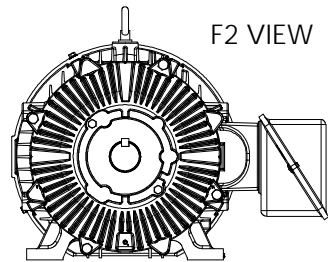
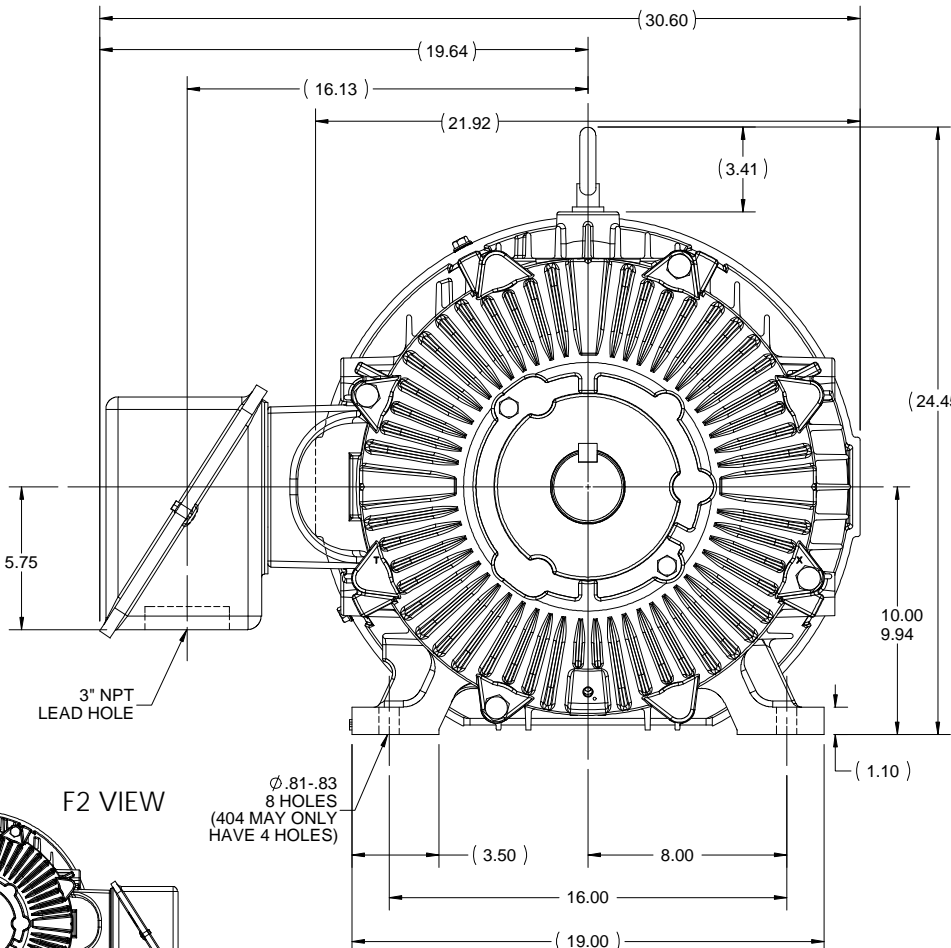
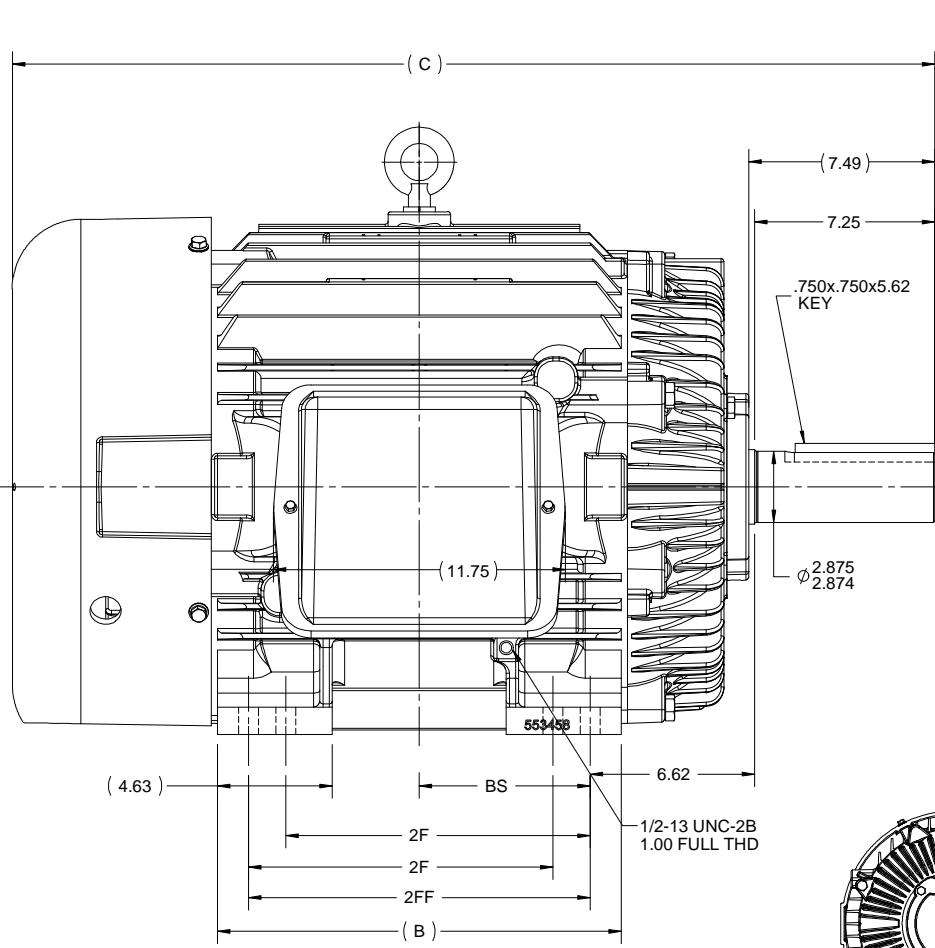
1

B

B

A

A



- 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
1525	404T	14.75	35.62	12.25	----	6.12
1675	404/405T	16.25	37.14	12.25	13.75	6.88

DRAWING REVISION F	REVISION BY ZR	DATE 08-01-2018
ECO ECO-0149979	APPROVED BY TRK	DATE 08-01-2018
ECO DESCRIPTION UPDATE 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]  
 CORNER FILLETS: .02 [.51]  
 MACHINED SURFACES: 200 INCH/mm 5.1

DRAWN BY TLB	DATE 05-19-1988
APPROVED BY ML	DATE 05-22-1988
REFERENCE	THIRD ANGLE PROJECTION

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
400T FR.-TAPPED LEAD HOLE

MATERIAL  
B

DRAWING NUMBER  
**SS508859**

PROCESS/FINISH

SHEET  
1 OF 1

4

3

2

1

**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD  
CONNECTION**

- L1 \_\_\_\_\_ WHITE
- L2 \_\_\_\_\_ RED
- L3 \_\_\_\_\_ BLACK

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION <b>UPDATED TO CURRENT STANDARDS</b>		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.		
		DESCRIPTION <b>CONNECTION DIAGRAM</b> EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>	SHEET 1 OF 1



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:   
 ORDER #: A-EE7300   
 REFERENCE MODEL #: 40STTS16103   
 CONN. DIAGRAM: B-SS508889-1675   
 CAT #: L427A   
 OUTLINE: 1405819 NONE 3   
 CUSTOMER PART #:   
 WINDING: 1405819 NONE 3   
 MOUNTING: F1/F2 CAPABLE   
 SPEED:   
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	900	890	40ST	TEFC	TFS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	80.80	ACROSS-THE LINE	CONT	F	1.15	40	3300
	F.L. EFF	93.6	3/4 LD EFF	93.6	GTD EFF	ELECT. TYPE			
	F.L. PF	74.5	3/4 LD PF	71.0	1/2 LD PF	62.0	93.0	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
355 LB-FT	435	625 LB-FT	176%	850 LB-FT
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME
68 DBA	77 DBA	40.8 LB-FT <sup>2</sup>	0 LB-FT <sup>2</sup>	20 SEC.
				START/SHOUR
				0
				MOTOR WGT
				1400 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE BALL 6316	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON	

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.068	0.041	0.398	0.728	5.908	0.150	ODE

* N	INVERTER TORQUE: NONE	
O	INV. HP SPEED RANGE: NONE	
T	ENCODER: NONE	
E	BRAKE: NONE	
S	FT-LB: NONE	
.	VOLTAGE: NONE	
	HZ: NONE	

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 9/11/2018  
 UL: V/INS, CONST UL REC

