

PRODUCT INFORMATION PACKET



Model No: 405TSTFS14519
Catalog No: 405TSTFS14519
100,3000,TEFC,405TS,3/50/400

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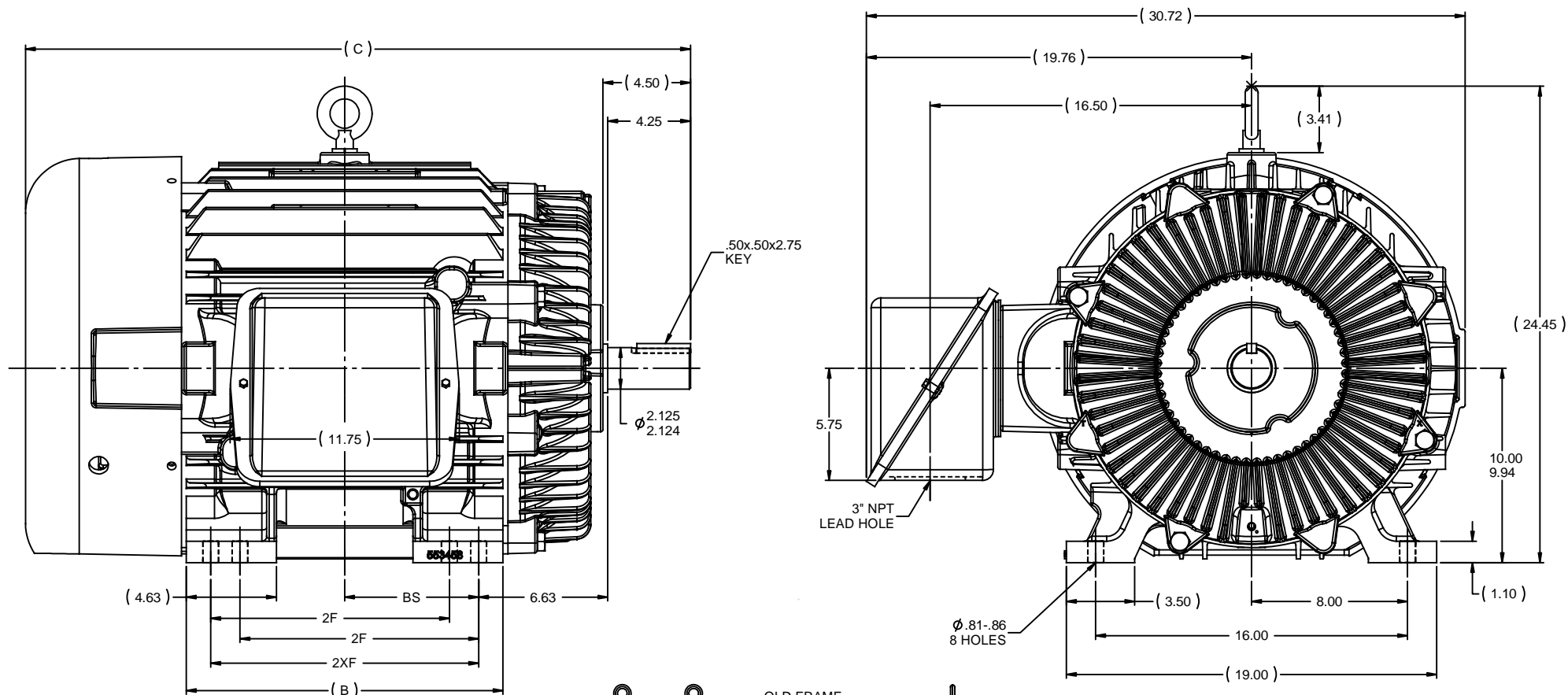
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400 V
Current	125.0 A	Speed	2965 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	90
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	405TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

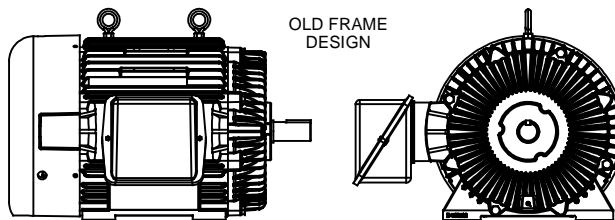
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.04 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS509125-1675	Connection Drawing	A-EE7300

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- 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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



DASH	FRAME	B	C	BS	2F	2XF
1525	404TS	14.75	32.63	6.12	12.25	---
1675	404/405TS	16.25	34.13	6.88	12.25	13.75

REVISION				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN TLB 05-19-1988	
NO	REVISION	BY	DATE	CHK	ANG		CHK	FG 05-20-1988
8	REDRAWN IN SOLIDWORKS W/ L.W. FRAME MU98878	EDK	11/29/2010	MH	DEC	INCHES	APPR	ML 05-22-1998
7	UPDATED FRAME & ADDED 404 INFO CN27430	KL	10-25-2005	X		±.1		
6	REDRAWN IN AUTOCAD	TAT	06-29-2004	.XX		±.03		SCALE 1:5
5	ADDED NEMA 'O' DIM.	MRB	09-12-1996	.XXX		±.005		REF
4	REDRAWN ON CADD	TLB	05-19-1988	.XXX		±.0005		FMF
				RFP				
				CHK	ANG	±7'30"		
				PREV				
				NETWORK FILE NAME	SS509125		SIZE B	DRAWING NO SS509125
							PAGE 8	REV 8

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1) T1(U1) T1(U1) → L1

T2(V1) T2(V1) T2(V1) → L2

T3(W1) T3(W1) T3(W1) → L3

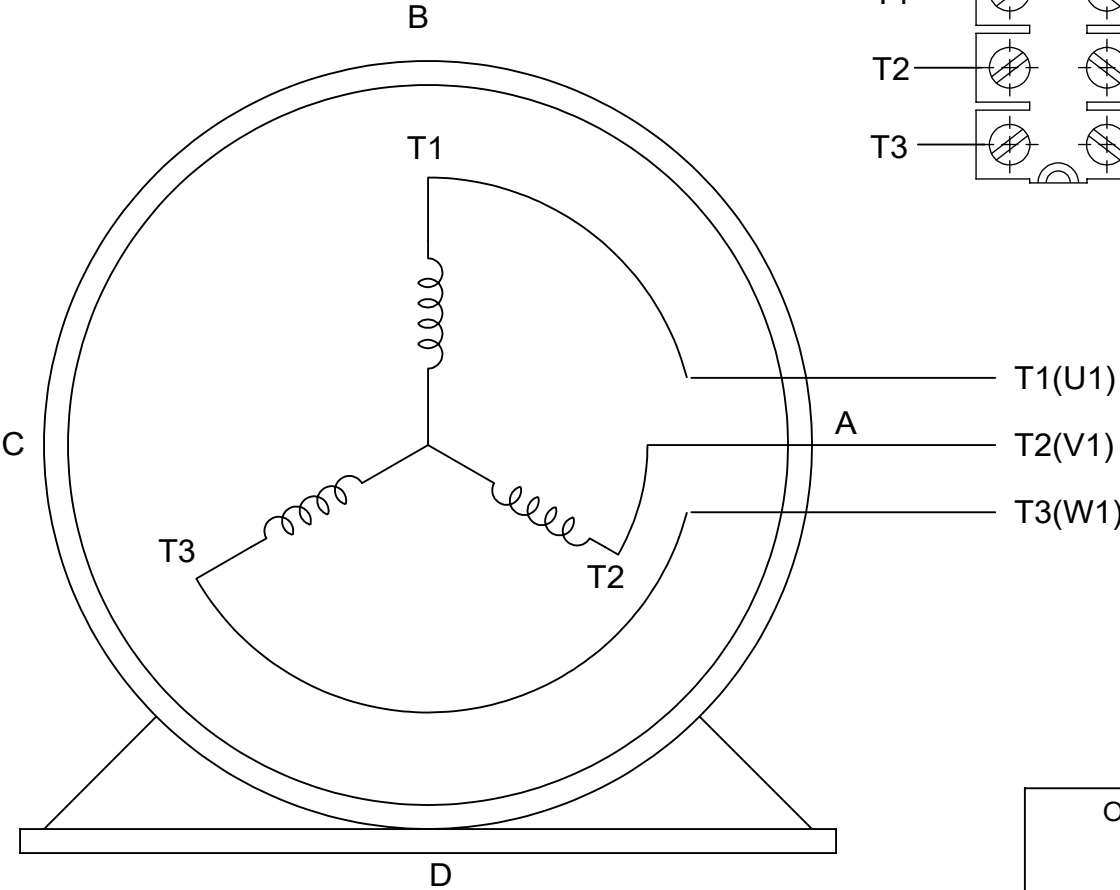
IF MOTOR HAS 6 LEADS

T1(U1) T1(U1) → L1

T2(V1) T2(V1) → L2



T3(W1) T3(W1) → L3

A-9806 DECAL



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY DA	 Regal Beloit America, Inc.			
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022		DATE 03-26-1993				
REQUEST NUMBER DESCRIPTION DRAWING UPDATED				APPROVED BY TB	DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION 	SIZE A	DRAWING NUMBER EE7300		SHEET 1 OF 1



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

DATA VOLTS: 400

CERTIFICATION DATA SHEET

CUSTOMER:**ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

A-EE7300

B-SS509125-1675

T405248

R1

4

CUSTOMER P.O. #:**REFERENCE MODEL #:****CAT #:****CUSTOMER PART #:****MOUNTING:**

N/A

F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
100	75	3000	2965	405TS	TEFC	TFS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	50	400	125	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.5	1/2 LD EFF	94.1	GTD EFF	ELECT. TYPE
F.L. PF	90.0	3/4 LD PF	88.0	1/2 LD PF	84.0	93.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
177 LB-FT	879	285 LB-FT 161%	520 LB-FT 294%	70

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR WGT
76 dBA	85 dBA		16.5 LB-FT ²	0 LB-FT ²	20 SEC.	0	1300	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE - RAL 5003 (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6313 6313							

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
0.035457064	0.023268698	0.216066482	0.16066482	8.121883657	0.080	ODE

* N O T E s *		INVERTER TORQUE: NONE
		INV. HP SPEED RANGE: NONE
		ENCODER: NONE
		NONE
		NONE PPR

PREPARED BY: VINAYAK YERATE	BRAKE: NONE
DATE: 4/6/2023	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE
	HZ:
	UL: V-INS, CONST UL REC

FORM: 3531 REV_4 2/27/06