

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 405TSTD4008

Catalog No: U1124

150 HP Fire Pump Motor, 3 phase, 3600 RPM, 575 V, 405TS Frame, ODP
Fire Pump Motors



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RegalRexnord

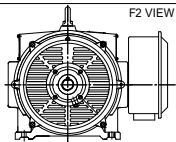
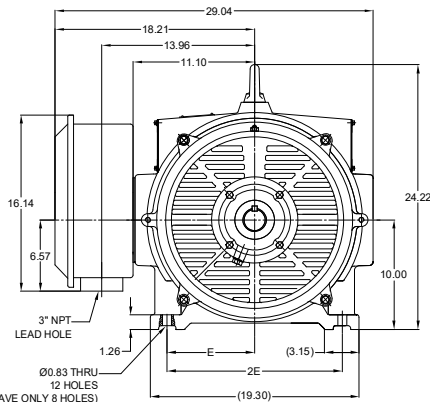
Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	575 V
Current	134.0 A	Speed	3570 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	405TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Listed	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.062 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	35.44 in
Frame Length	21.25 in	Shaft Diameter	2.125 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7300BH	Outline Drawing	SS620752-405TS



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DRAWING REVISION B	REVISION BY B/ISA	REVISYON DATE 10/03/2021
ECD CR-0001577	APPROVED BY GNK	DATE 10/03/2021
ECO DESCRIPTION DRAWING UPDATED		

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DRAWN BY WY		 Regal Beloit America, Inc.	
DATE 07/21/2016			
APPROVED BY		DESCRIPTION OUTLINE 404405TS FR-NEMA-ODP CAST IRON	
DATE			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER SS620752	SHEET 1 OF 1



				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005		
				DEC.	INCHES		CHK	ML	02-11-2005
				.X	±.1		APPD	GK	02-11-2005
				.XX	±.02	TITLE CONNECTION DIAGRAM 12 LEAD- SINGLE VOLTAGE	SCALE		
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	REF		
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV		
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				DIST	LB		A	EE7300BH	REV. C



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 405TSTD4008
CONN. DIAGRAM: EE7300BH CAT #: U1124
OUTLINE: SS620752 CUSTOMER PART #: _____
WINDING: IE3L2502111 NONE 3 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	3600	3570	405TS	DP	TDC	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	134	PWS & YDRUN	CONT	F	1.15	50	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	93.0	GTD EFF		ELECT. TYPE	
F.L. PF	88.0	3/4 LD PF	88.0	1/2 LD PF	84.0		92.4	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
221 LB-FT	740	310 LB-FT 140%	464 LB-FT 210%	55	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.00 LB-FT²	250 LB-FT²	20 SEC.	2	0 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	RED (ENAMEL)

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
0.059	0.195	0.245	0.286	10.741	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
PREPARED BY: FAREEDA DUDEKULA DATE: 9/17/2018		ENCODER: NONE NONE NONE NONE PPR BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ: UL: NONE

FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 12/10/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



405TSTD4008

Submittal

Data @ 575 V

Motor Load Data

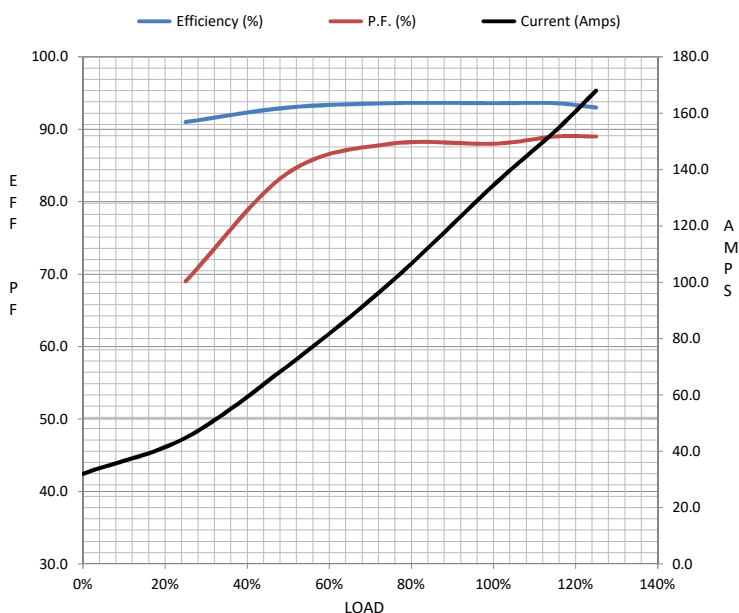
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	32.0	44.8	70.4	100	134	154	168	740	
Torque (ft-lb)	0.00	55.0	110	165	221	254	276	310	
RPM	3600	3592	3586	3580	3570	3,565	3562	0	
Efficiency (%)		91.0	93.0	93.6	93.6	93.6	93.0		
P.F. (%)	8.0	69.0	84.0	88.0	88.0	89.0	89.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3570	3600
Current (Amps)	740	700	460	134	32.0
Torque (ft-lb)	310	250	464	221	0.00

Information Block

HP	150.0			
Sync. RPM	3600			
Frame	405			
Enclosure	DP			
Construction	TDC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	IE3L2502111 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	SS620752			
Conn. Diag	EE7300BH			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0590	0.1950	0.2450	0.2860	10.7410



Speed -Torque Curve

