

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTDP4047

Catalog No: U503

25 HP Fire Pump Motor, 3 phase, 1800 RPM, 200/400 V, 284T Frame, ODP
Fire Pump Motors



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RegalRexnord

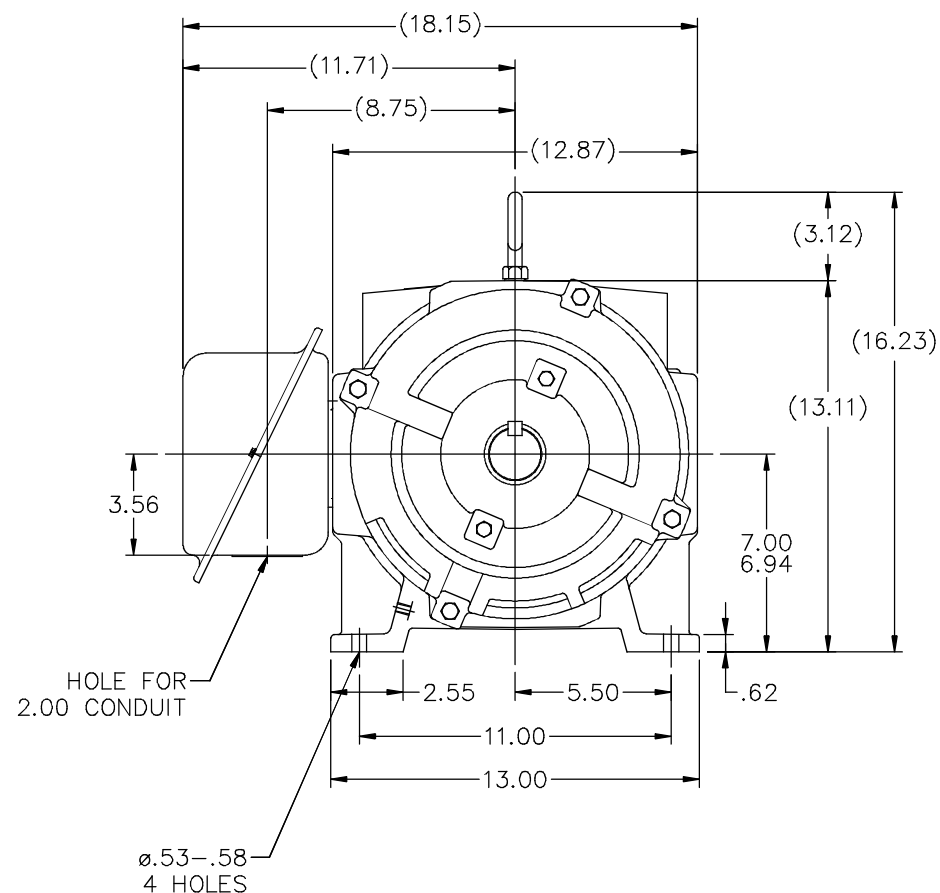
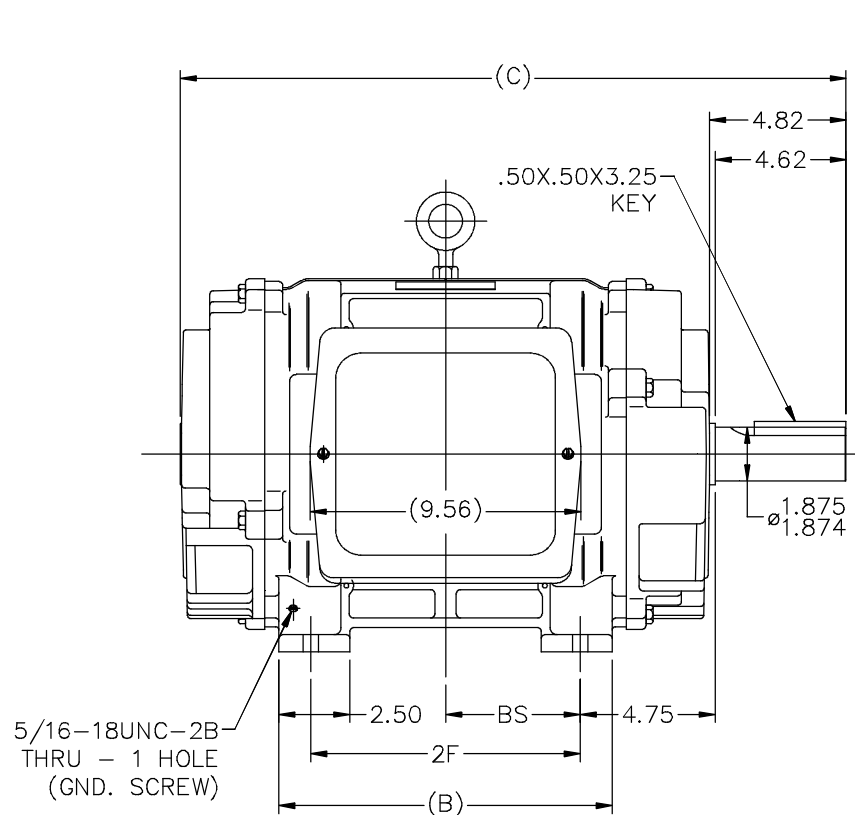
Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	200/400 V
Current	70.0/35.0 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	84
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	F
Frame	284T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.399 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	23.49 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.82 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS200030-1275	Connection Drawing	A-EE7358

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NOTES

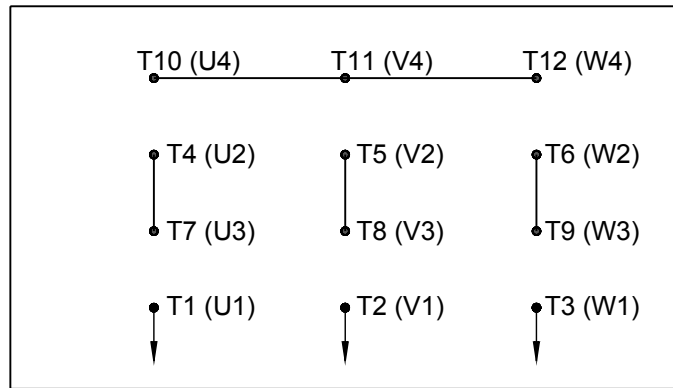
1. BOX CAN BE ROTATED IN 90° STEPS
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	B	C	2F	BS
1275	284T	11.75	23.49	9.50	4.75
1425	286T	13.25	24.99	11.00	5.50

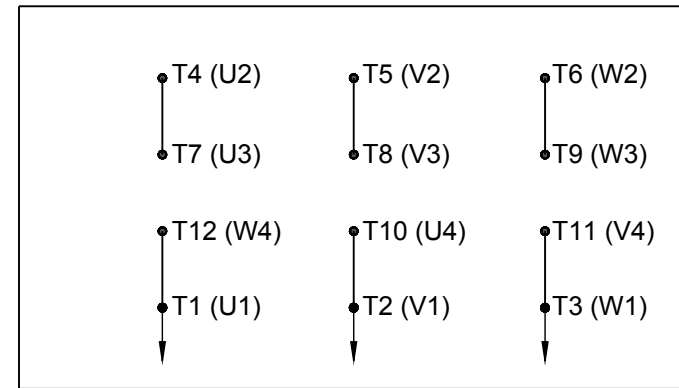
				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN JL 11-17-1987	
				DEC.	INCHES		CHK	JPN 11-20-1987
10	RECAD IN AUTOCAD	RWR	05-27-2004	.X	±.1		APPD	LS 11-25-1987
9	REV. TO NEC CONDUIT BOX CN28428	NJS	02-10-2000	ML	.XX	±.03	TITLE OUTLINE - DR. PR. - CAST IRON 280T FR. - BB- TS - DBL. END VENT.	
8	SHOW GND. SCR. HOLE IN FRONT CN22833	PGK	08-14-1996	JPN	.XXX	±.005		
7	REMOVED FRONT EXT. CN21752-692	KL	07-23-1996	JPN	.XXXX	±.0005	MAT'L	
NO. REVISION		BY & DATE		CHK	ANG	±7°30"	FINISH	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT		RFP		CAD FILE ss200030		SIZE	DRAWING NO.	PAGE OF
		DIST LB				B	SS200030	10

HIGH VOLTAGE

WYE START

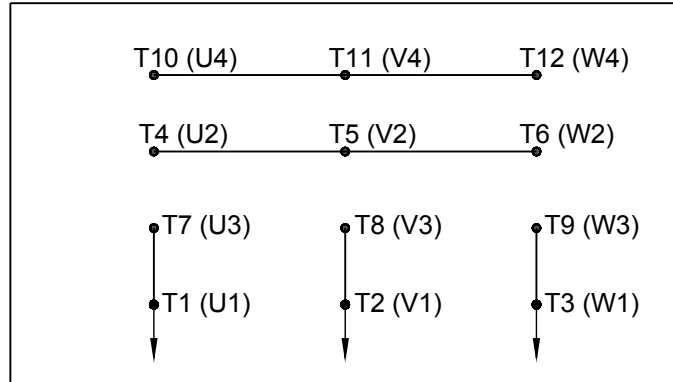


DELTA RUN

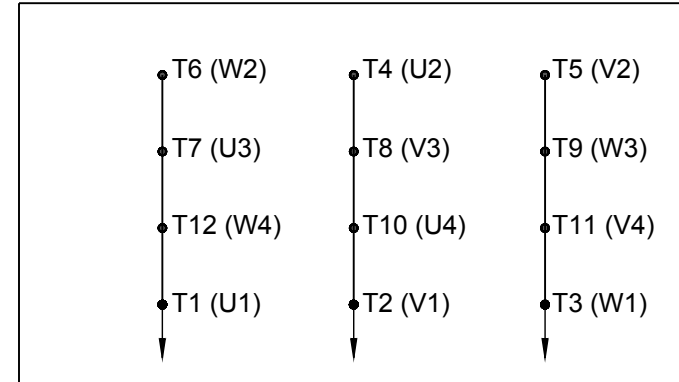


LOW VOLTAGE

WYE START



DELTA RUN

4/2 CKTY $\triangle$

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016		DRAWN BY BLR	 Regal Beloit America, Inc.			
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016		DATE 03-09-1998	DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN			
ECO DESCRIPTION ADDED IEC MARKINGS				APPROVED BY GK				
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7358	

CERTIFICATION DATA SHEET

Model#: 284TTDP4047 BB
 CONN. DIAGRAM: A-EE7358
 OUTLINE: B-SS200030-1275

WINDING#: K2564256 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25	18.7	1800	1765	284T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200/400	70/35	WYE START DELTA RUN	CONTINUOUS	B3	1.15	50	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84	3/4 LOAD PF: 82	1/2 LOAD PF: 74	90.2	SQ CAGE IND RUN	24.8 / 12.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74.5 LB-FT	391 / 195.5	120 LB-FT 161	170 LB-FT 228	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	2.7 LB-FT^2	135 LB-FT^2	20 SEC.	2	360 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAIN
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6311	6210	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

DATE: 06/23/2017 08:36:19 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



284TTDP4047

Submittal

Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.4	14.7	20.1	27.0	35.1	39.1	43.7	196	
Torque (ft-lb)	0.00	18.5	36.5	56.0	74.5	84.0	94.0	120	
RPM	1800	1795	1785	1775	1765	1,760	1755	0	
Efficiency (%)		88.5	91.7	92.4	91.7	91.0	90.2		
P.F. (%)	6.5	54.0	74.0	82.0	84.0	84.5	85.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	1250	1650	1765	1800	HP	25.0			
Current (Amps)	196	178	121	35.1	12.4	Sync. RPM	1800			
Torque (ft-lb)	120	115	170	74.5	0.00	Frame	284			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	DP			
						Construction	TDP			
						Voltage	200/400 V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	F			
						Service Factor	1.15			
						Temp Rise @ FL	45 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	2.70 Lb-Fl ²			
						Ref Wdg	K2564256 NONE			
						Sound Pressure @ 1M	72 dBA			
						VFD Rating	NONE			
						Outline Dwg	B-SS200030-1275			
						Conn. Diag	A-EE7358			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.1940		0.1250		0.7070		1.0520		19.4810		

Speed -Torque Curve

