

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTDP14049

Catalog No: U511

40 HP Fire Pump Motor, 3 phase, 1800 RPM, 200/400 V, 324T Frame, ODP
Fire Pump Motors



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RegalRexnord



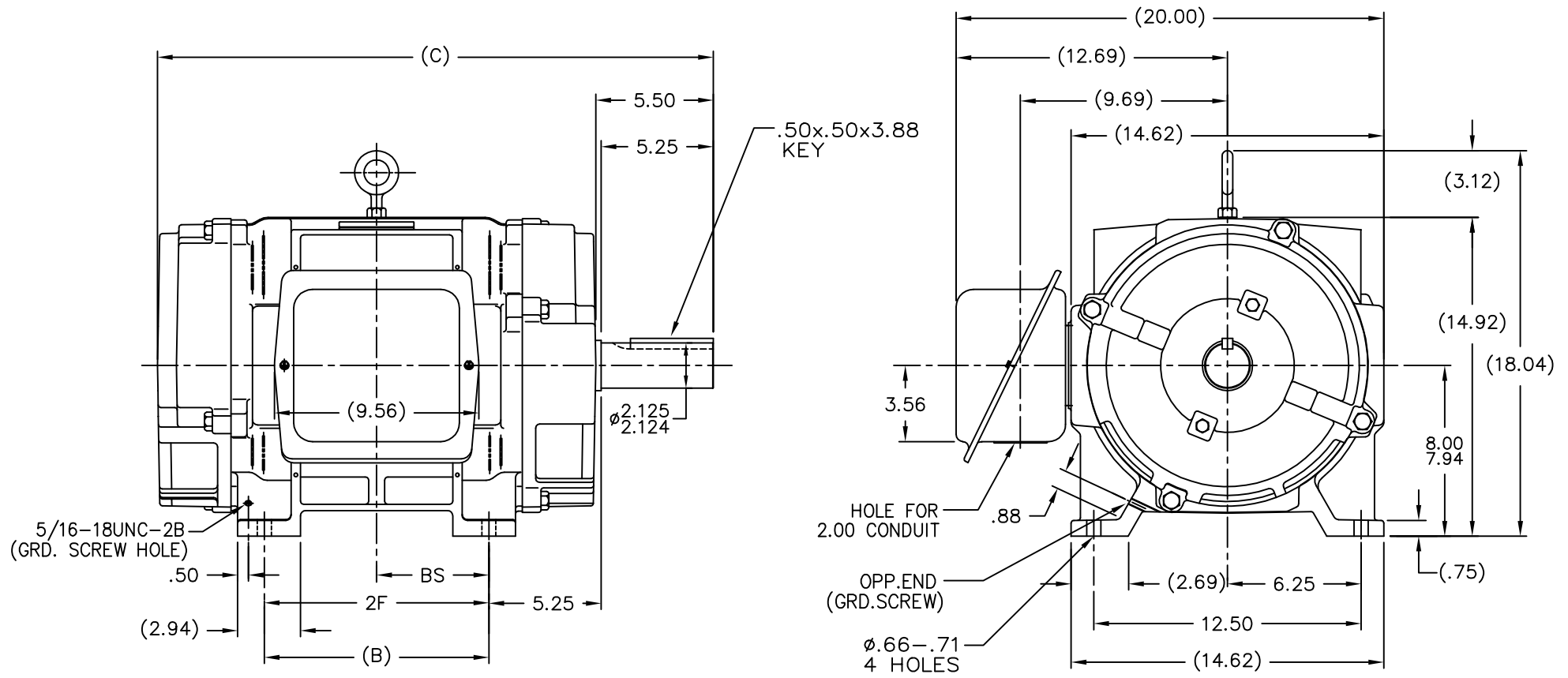
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	200/400 V
Current	112.0/56.0 A	Speed	1770 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	324T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.165 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	26.00 in
Frame Length	13.62 in	Shaft Diameter	2.125 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS200078-1362	Connection Drawing	A-EE7358

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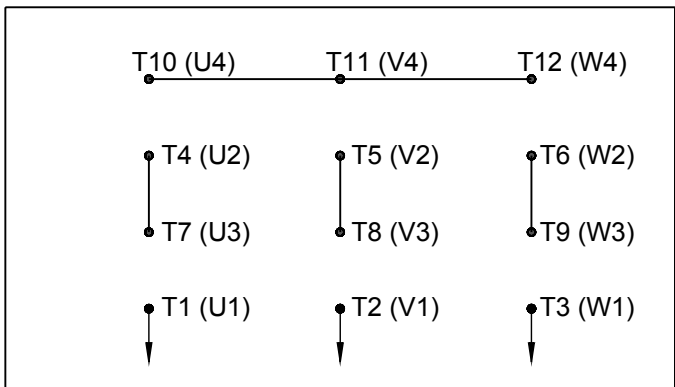
- NOTES:
1. BOX CAN BE ROTATED IN 90° STEPS
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	C	2F	B	BS
1362	324T	26.00	10.50	13.00	5.25
1512	326T	27.50	12.00	14.50	6.00

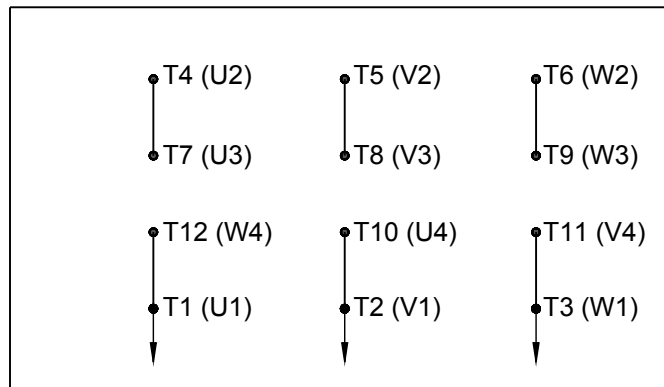
		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN JL 02/17/1988	
		DEC.	INCHES			CHK JPN 03/08/1998	
7	REDAWN IN AUTOCAD	RWR 05/27/2004	ML .X	±.1			APPD LS 03/21/1988
6	REVISED TO N.E.C. CONDUIT BOX CN28428	NJS 02/16/2000	ML .XX	±.03	TITLE OUTLINE -DR.PR. -CAST IRON		SCALE 1=4.5
5	ADDED 5/16 GND. SCREW HOLE CN21725-1005	DRS 11/05/1996	ML .XXX	±.005	320T FR. -BB -TS -D.E.V.		REF
4	UPDATED SHAFT HEIGHT CN16763	DRS 08/13/1996	JPN .XXXX	±.0005	MATL.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	FINISH		PREV
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	ANG	CAD FILE ss200078		SIZE B
			DIST LB		DRAWING NO. SS200078		PAGE 1 OF 1
							REV. 7

HIGH VOLTAGE

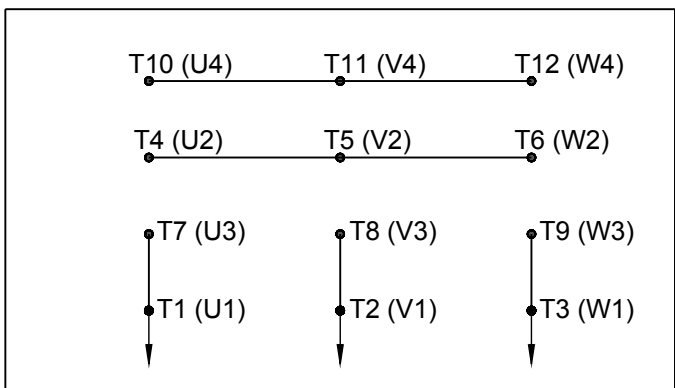
WYE START



DELTA RUN

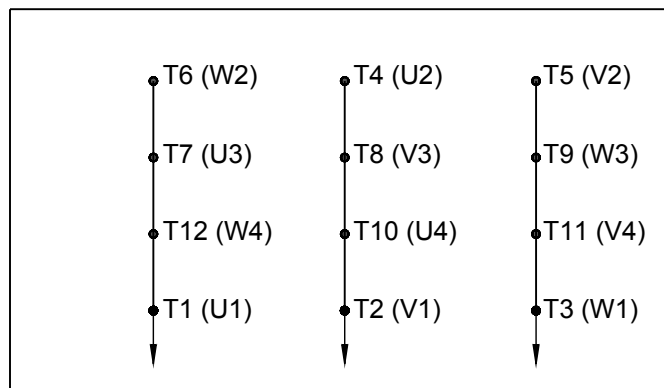


WYE START



LOW VOLTAGE

DELTA RUN

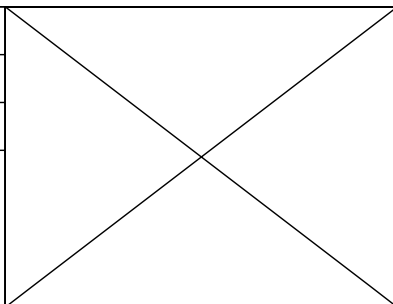


4/2 CKTY \triangle

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016

ECO DESCRIPTION
ADDED IEC MARKINGS

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DRAWN BY BLR	Regal Beloit America, Inc.		
DATE 03-09-1998			
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN		
DATE 03-23-1998			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7358	SHEET 1 OF 1

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CERTIFICATION DATA SHEET

Model#: 324TTDP14049 BB
CONN. DIAGRAM: A-EE7358
OUTLINE: B-SS200078-1362

WINDING#: K2864303 NONE 4
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40	30	1800	1770	324T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200/400	112/56	PWS(LV ONLY) & YDRUN	CONTINUOUS	F3	1.15	50	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.5	3/4 LOAD PF: 78.5	1/2 LOAD PF: 69.5	91.7	SQ CAGE IND RUN	41.4 / 20.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
119 LB-FT	632.5 / 316.3	205 LB-FT 172	305 LB-FT 256	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	4.7 LB-FT^2	200 LB-FT^2	20 SEC.	2	450 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

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: 06/21/2017 04:24:58 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

324TTDP14049

Date: 1/25/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 400 V

Motor Load Data

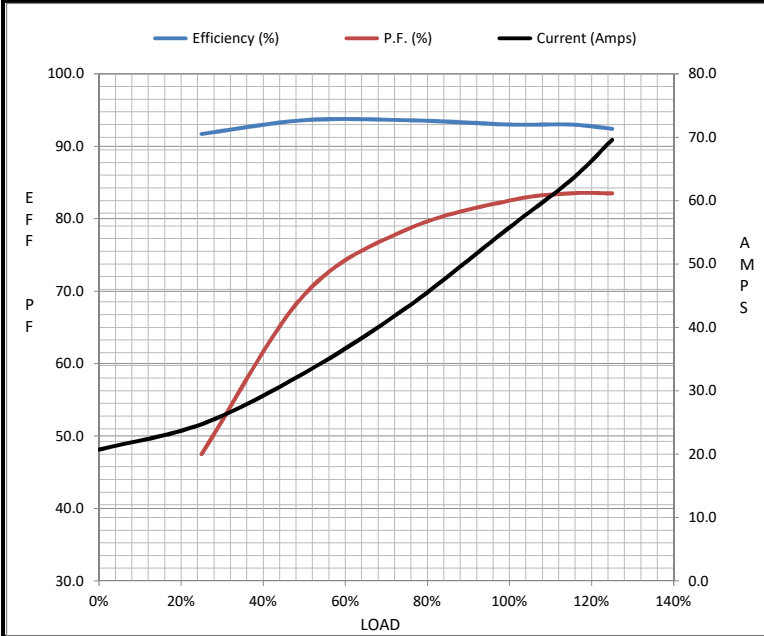
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	20.7	24.7	32.8	43.1	55.8	63.3	69.6	316
Torque (ft-lb)	0.00	29.0	58.5	88.5	119	134	149	205
RPM	1800	1792	1785	1778	1770	1,765	1758	0
Efficiency (%)		91.7	93.6	93.6	93.0	93.0	92.4	
P.F. (%)	3.5	47.5	69.5	78.5	82.5	83.5	83.5	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1650	1770	1800
Current (Amps)	316	276	196	55.8	20.7
Torque (ft-lb)	205	180	305	119	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	DP			
Construction	TDS			
Voltage	200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	50 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	4.8 Lb-Ft ²			
Ref Wdg	K2864303 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS200078-1362			
Conn. Diag	A-EE7358			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0830	0.0720	0.4490	0.6060	11.1830



Speed - Torque Curve

