

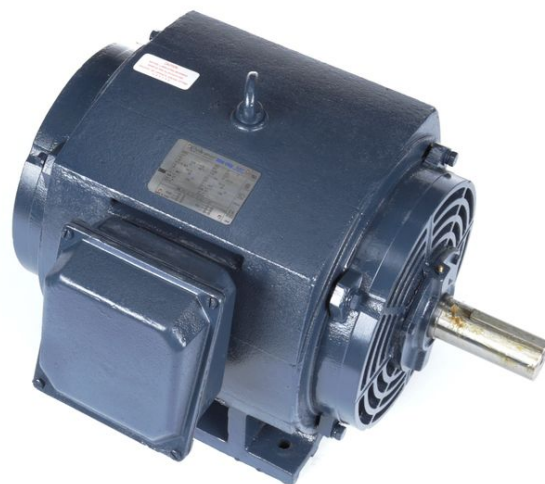
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTDR16054

Catalog No: E787A

40 HP General Purpose Motor, 3 phase, 1800 RPM, 200 V, 324T Frame, ODP
General Purpose Motors



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RegalRexnord

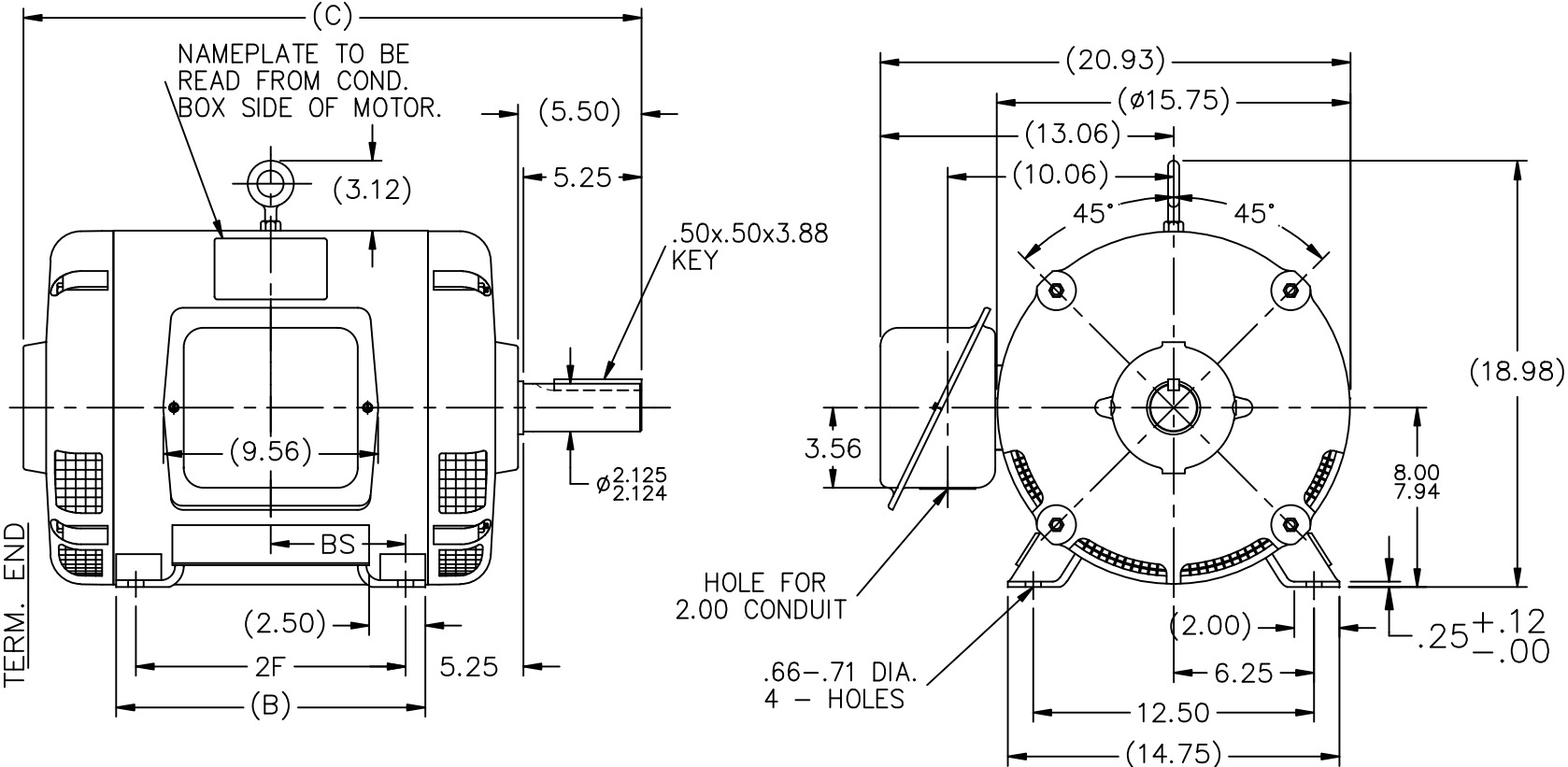
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	200 V
Current	112.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	324T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.13 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	28.00 in
Frame Length	14.50 in	Shaft Diameter	2.125 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS207973-1450	Connection Drawing	A-EE7300U

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DASH	FRAME	B	C	2F	BS	MTG.
1250	324T	12.25	26.00	10.50	5.25	F1 OR F2
1400	326T	13.75	27.50	12.00	6.00	F1 OR F2
1450	324T	12.25	28.00	10.50	6.25	F1 ONLY
1450	326T	13.75	28.00	12.00	6.25	F1 ONLY
1500	326T	13.75	28.50	12.00	6.40	F1 ONLY
1750	326T	13.75	31.00	12.00	9.12	F1 ONLY

NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

				TOLERANCES UNLESS SPECIFIED			DRAWN SJW 5-10-2011					
				DEC.	INCHES		CHK CMN 5-11-2011					
				.X	±.1		APPD BW 5-11-2011					
				.XX	±.03		SCALE 1=8					
				.XXX	±.005		REF					
				.XXXX	±.0005	TITLE OUTLINE 320 FR. – DR.PR			FMF MU102205			
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"	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		CAD FILE SS207973			SIZE	DRAWING NO. PAGE 1 OF 1		REV.
				DIST WA					A	SS207973		

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY DRS	 Regal Beloit America, Inc.	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE						
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015		DATE 09-27-1996								
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK	MATERIAL							
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.				DATE 09-30-1996								
				REFERENCE	PROCESS/FINISH		SIZE A		DRAWING NUMBER EE7300U		SHEET 1 OF 1	
				THIRD ANGLE PROJECTION								

CERTIFICATION DATA SHEET

Model#: 324TTDR16054 AN
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: B-SS207973-1450

WINDING#: 3244118 NONE 10
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40	30	1800	1775	324T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	112	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 94.1	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 79	1/2 LOAD PF: 70	93.6	SQ CAGE IND RUN	41.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
118 LB-FT	632.5	200 LB-FT 169	275 LB-FT 233	48

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	8.5 LB-FT^2	225 LB-FT^2	20 SEC.	2	550 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	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6312	6311	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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

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

DATE: 06/21/2017 04:29:04 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



324TTDR16054

Submittal

Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	41.4	48.3	65.6	87.4	112	129	140	633	
Torque (ft-lb)	0.00	29.5	59.0	88.5	118	136	148	200	
RPM	1800	1795	1790	1785	1775	1,772	1770	0	
Efficiency (%)		89.5	93.0	93.6	94.1	93.6	93.0		
P.F. (%)	6.0	49.0	70.0	79.0	82.0	82.5	83.0	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																					
Speed (RPM)	0	900	1700	1775	1800																																					
Current (Amps)	633	529	403	112	41.4																																					
Torque (ft-lb)	200	180	275	118	0.00																																					
Efficiency (%)P.F. (%)Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>20</td><td>89</td><td>48</td><td>48</td></tr><tr><td>40</td><td>92</td><td>65</td><td>55</td></tr><tr><td>60</td><td>93</td><td>75</td><td>65</td></tr><tr><td>80</td><td>93.5</td><td>80</td><td>75</td></tr><tr><td>100</td><td>94</td><td>82</td><td>85</td></tr><tr><td>120</td><td>93.5</td><td>83</td><td>90</td></tr><tr><td>125</td><td>93</td><td>83</td><td>92</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	20	89	48	48	40	92	65	55	60	93	75	65	80	93.5	80	75	100	94	82	85	120	93.5	83	90	125	93	83	92	Information Block				
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						Enclosure		DP																																		
						Construction		TDR																																		
						Voltage		200 V																																		
						Frequency		60 Hz																																		
						Design		B																																		
LR Code letter		G																																								
Service Factor		1.15																																								
Temp Rise @ FL		50 ° C																																								
Duty		CONT																																								
Ambient		40 ° C																																								
Elevation		1,000 feet																																								
Rotor/Shaft wk²		8.5 Lb-Ft²																																								
Ref Wdg		3244118 NONE																																								
Sound Pressure @ 1M		75 dBA																																								
VFD Rating		NONE																																								
Outline Dwg		B-SS207973-1450																																								
Conn. Diag		A-EE7300U																																								
Additional Specifications:																																										
0																																										
0																																										
EQUIV CKT (OHMS / PHASE)																																										
R1		R2		X1		X2		Xm																																		
0.0170		0.0140		0.1190		0.1570		2.7880																																		

Speed -Torque Curve

