

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 449TTFS18532
Catalog No: 449TTFS18532
400,1800,TEFC,449TZ,3/60/575

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The logo for Regal Rexnord, featuring a stylized 'R' icon followed by the text 'RegalRexnord'.



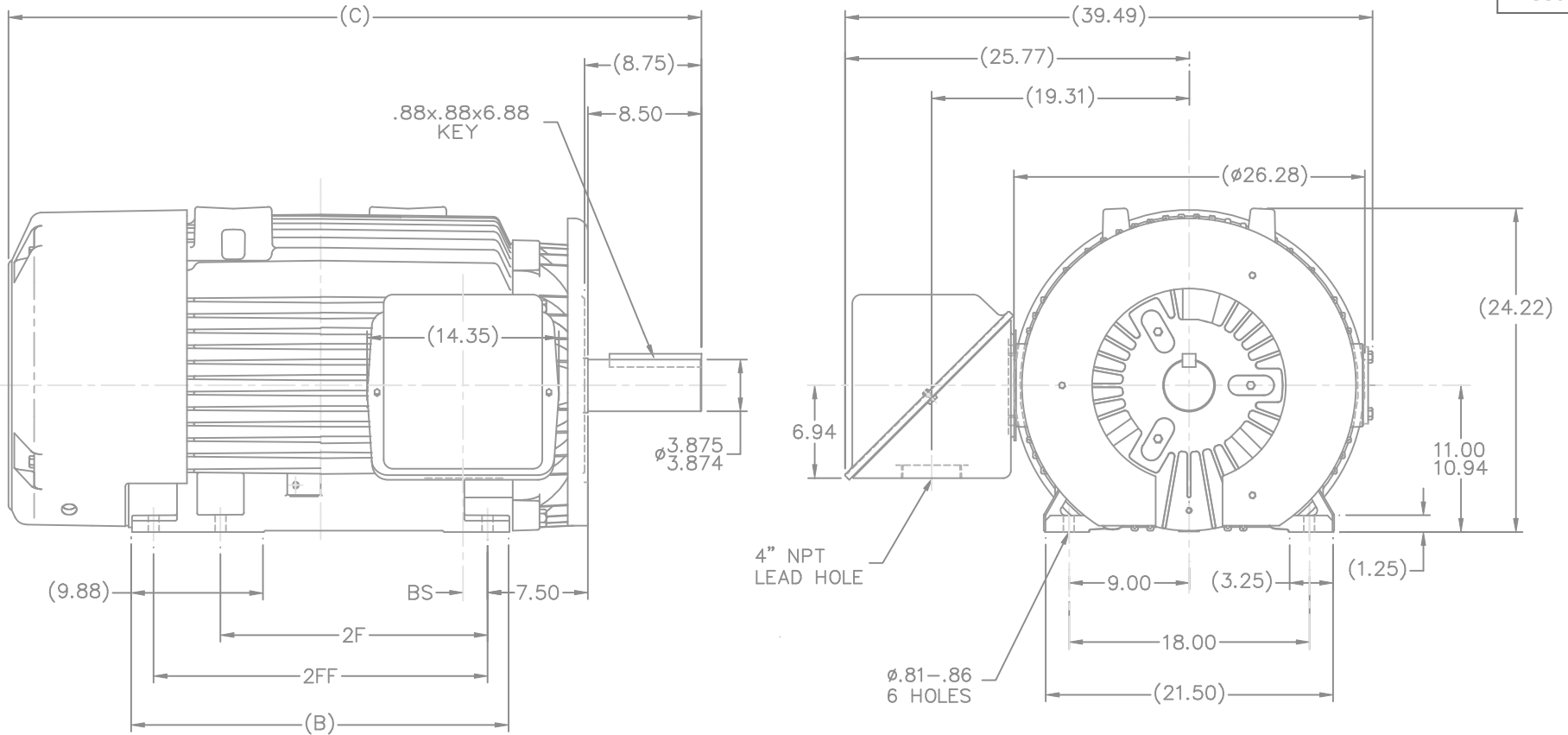
Nameplate Specifications

Phase	3	Output HP	400 Hp
Output KW	298.4 kW	Voltage	575 V
Speed	1785 rpm	Service Factor	1.15
Frame	#3	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.8 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	358.0 A	Power Factor	87
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Drive End Bearing Size	NU322	Opp Drive End Bearing Size	318
CSA	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.007 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Single Special Extension	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS519859-2875	Connection Drawing	A-EE7300U

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NOTES:

- 1. C. BOX CAN BE ROTATED IN 90° STEPS.
- 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

2875	447TZ	51.88	--	28.25	20.00	--	--	1.84
2875	449TZ	51.88	--	28.25	--	25.00	--	1.84
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS

			TOLERANCES UNLESS SPECIFIED		DRAWN HLB 06-10-2003	
			DEC.	INCHES	CHK JHL 06-16-2003	
			.X	±.1	APPD JES 06-16-2003	
			.XX	±.03	SCALE 1=8	
			.XXX	±.005	REF B-SS519423	
1	NEW DRAWING	CN 36705	HLB	06-16-2003	MAT'L	
NO.		REVISION	BY & DATE		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 ss519859	SIZE	DRAWING NO. PAGE OF REV.
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IF MOTOR HAS 9 LEADS

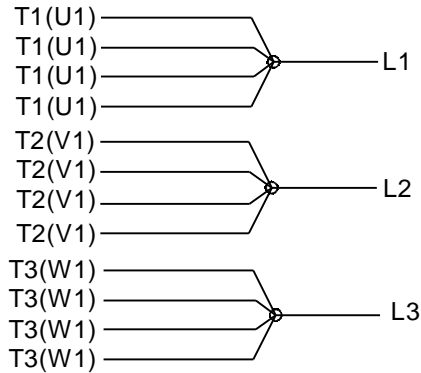


IF MOTOR HAS 6 LEADS



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:	DRAWN BY DRS	Regal Beloit America, Inc.																					
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7° 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>			<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7° 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]		DATE 09-27-1996
<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>																							
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.XX	±0.02	[±0.51]																								
.XXX	±0.005	[±0.127]																								
.XXXX	±0.0005	[±0.0127]																								
ECO DESCRIPTION UPDATED TO SOLIDWORKS <small>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.</small>			APPROVED BY GK	MATERIAL PROCESS/FINISH																						
			DATE 09-30-1996			SIZE A DRAWING NUMBER EE7300U																				
			REFERENCE	SHEET 1 OF 1																						
			THIRD ANGLE PROJECTION																							

Data Sheet

Date: 2/19/2024
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



449TTFS18532

Submittal

Data @ 575 V

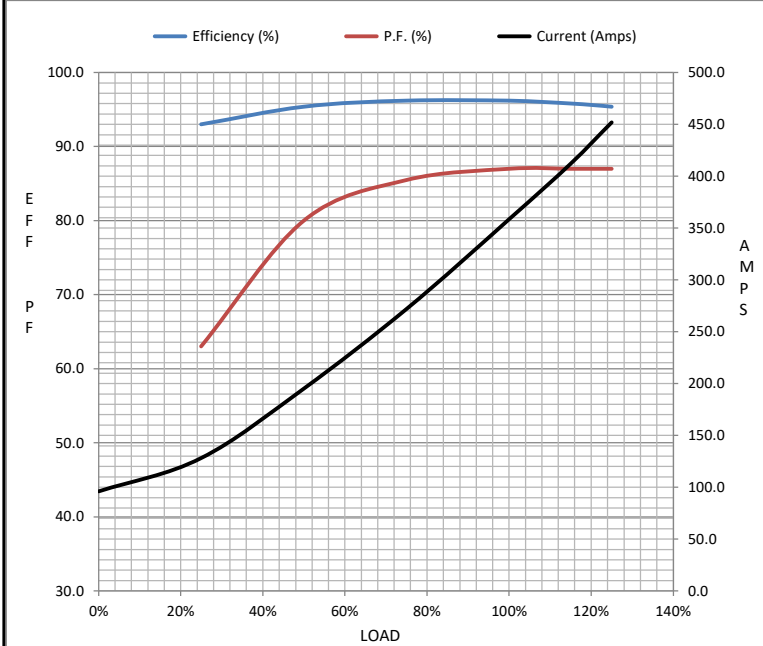
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	96.0	128	195	272	358	412	452	2,280
Torque (ft-lb)	0.00	293	586	880	1,176	1,355	1,475	2,400
RPM	1800	1796	1792	1788	1785	1,782	1780	0
Efficiency (%)		93.0	95.4	96.2	96.2	95.8	95.4	
P.F. (%)	5.5	63.0	80.0	85.5	87.0	87.0	87.0	32.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	2,280	2,080	1,280	358	96.0
Torque (ft-lb)	2,400	2,150	2,850	1,176	0.00

Information Block				
HP	400.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	85 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	110 Lb-F ²			
Ref Wdg	T4494102 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	NONE			
Outline Dwg	SS558858-2875			
Conn. Diag	EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0080	0.0930	0.1420	3.4180



Speed - Torque Curve

