

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 284TTFNA16074
Catalog No: 284TTFNA16074
25,1800,TEFC,284TC,3/60/230/460

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RegalRexnord

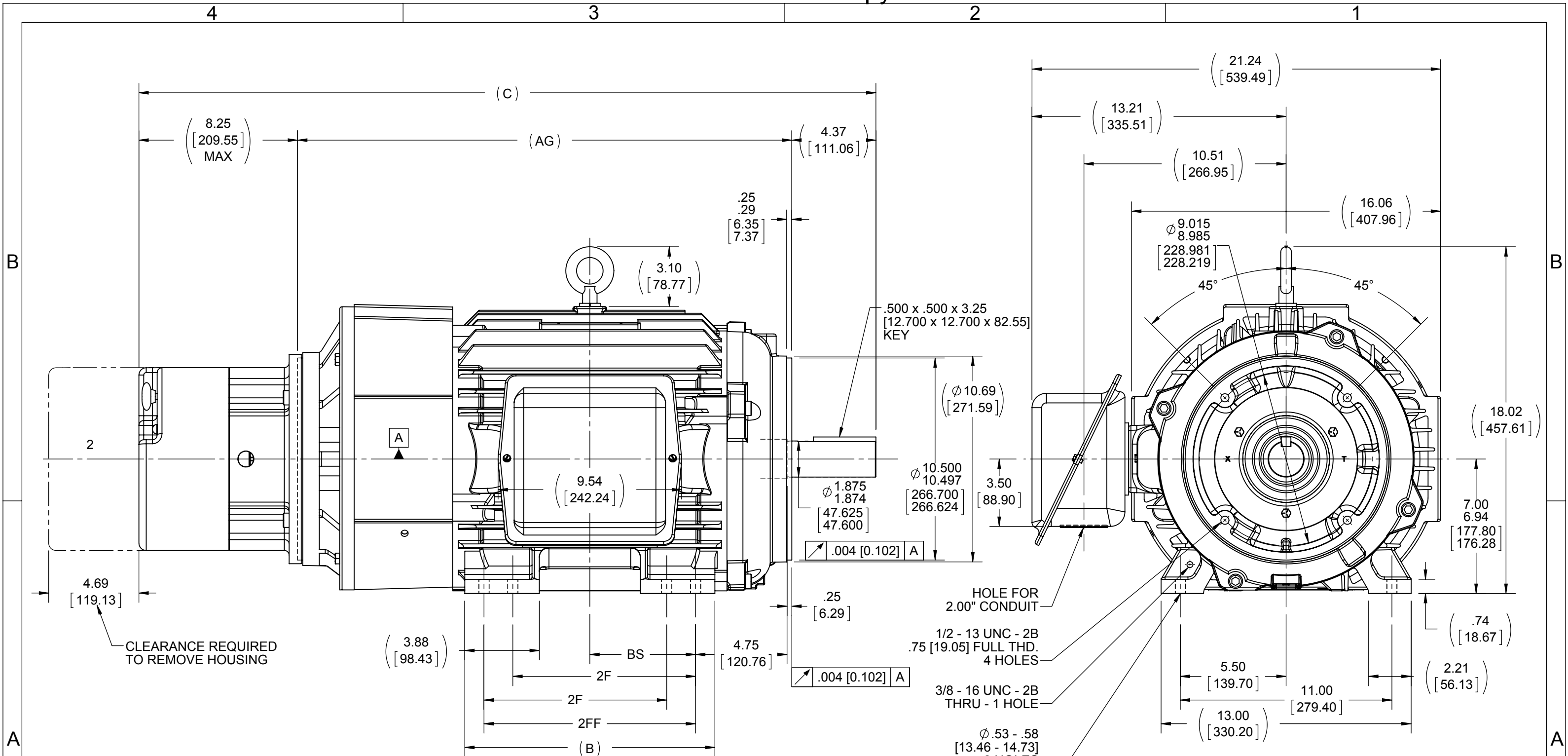
Nameplate Specifications

Phase	3	Output HP	25 Hp
Output KW	18.7 kW	Voltage	230/460 V
Speed	1774 rpm	Service Factor	1.15
Frame	284TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	62.0/31.0 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.251 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS312611-1275	Connection Drawing	A-EE7308

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- NOTES:
1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
 2. CONDUIT 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	2FF	BS	AG
1275	284T	12.50 [317.50]	36.81 [934.97]	---	9.50 [241.30]	4.75 [120.65]	24.19 [614.43]
1425	284/286T	13.00 [330.20]	38.31 [973.07]	9.50 [241.30]	11.00 [279.40]	5.50 [139.70]	25.69 [652.53]

DRAWING REVISION C	REVISION BY DRF	DATE 06-10-2014
ECO ECO-0052750	APPROVED BY TB	DATE 6-18-14
ECO DESCRIPTION UPDATED BRAKE		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]

DRAWN BY JWO
DATE 04-22-2014
APPROVED BY TB
DATE 04-24-2014
REFERENCE
THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
280T FR. - TEFC - 87,000 STEARNS BRAKE

MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS312611** SHEET 1 OF 1



NO.		REVISION		BY & DATE		CHK		ANG		FINISH		PREV									
5	CHG TO REGAL LOGO	SL	09/10/2015	AB																	
4	REVISED IEC NOTATIONS	MSG	11/15/2011	CMN	.X	±.1															
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG	5/10/2010	MJS	.XX	±.02															
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH	04/24/2003	DRS	.XXX	±.005															
1	REDRAWN	RM	11/20/1990		.XXXX	±.0005															
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										DIST WP											

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DRAWN RM 11/20/1990
CHK ML 11/21/1990
APPD SAS 04/24/2003
SCALE 1=1
REF
FMF
PREV

TITLE CONNECTION DIAGRAM
3Ø - DUAL VOLTAGE MOTOR

Data Sheet

Date: 2/23/2024
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



284TTFNA16074

Submittal

Data @ 460 V

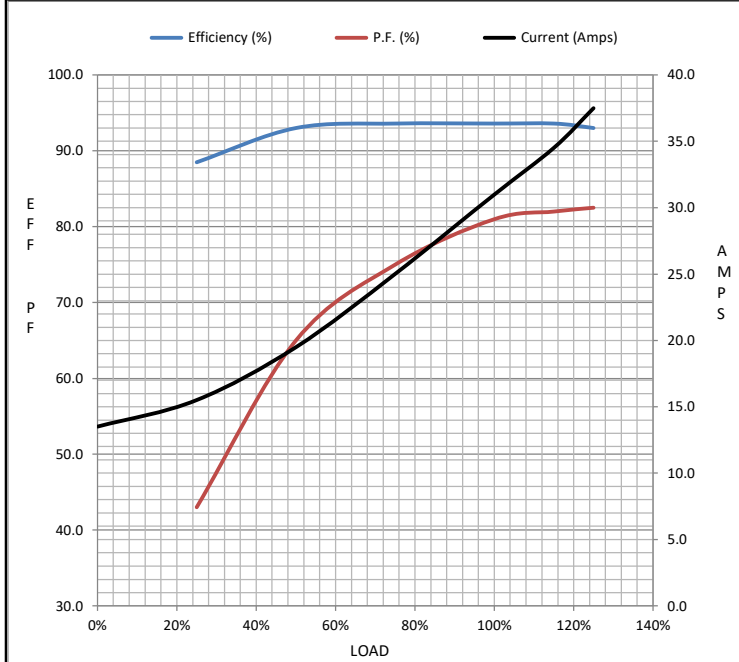
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	13.5	15.5	19.5	25.0	31.0	34.5	37.5	181
Torque (ft-lb)	0.00	18.5	37.0	55.5	74.0	85.5	93.0	140
RPM	1800	1795	1785	1780	1774	1,765	1760	0
Efficiency (%)		88.5	93.0	93.6	93.6	93.6	93.0	
P.F. (%)	5.5	43.0	65.0	75.0	81.0	82.0	82.5	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1774	1800
Current (Amps)	181	165	125	31.0	13.5
Torque (ft-lb)	140	130	215	74.0	0.00

Information Block				
HP	25.0			
Sync. RPM	1800			
Frame	284			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	4.2 Lb-Ft ²			
Ref Wdg	K2844120 R21			
Sound Pressure @ 1M	65 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS312611-1275			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1500	0.1540	0.8520	1.0660	20.0640



Speed - Torque Curve

