

PRODUCT INFORMATION PACKET

Model No: 284TTTNA16540

Catalog No: U1873

25 HP Severe Duty Motor, 3 phase, 1800 RPM, 230/460 V, 284TV Frame, TEAO
Low Voltage NEMA Cooling Tower Motors



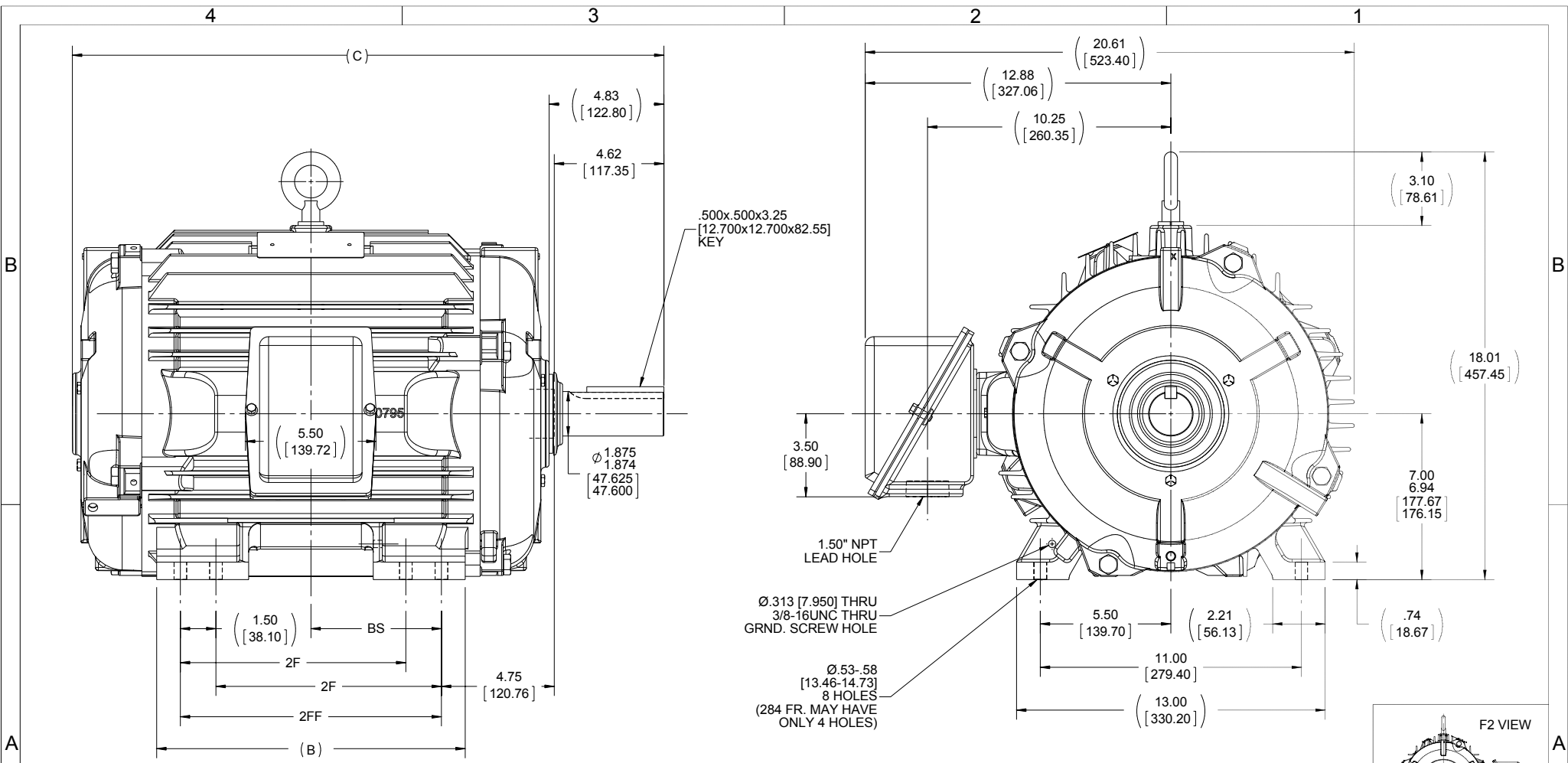
Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	62.0/31.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	284TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	56

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.251 Ohms	Mounting	Rigid base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	23.42 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.83 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308	Outline Drawing	B-SS311239-1275

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 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	BS	2F	2FF
1275	284T	12.50 [317.50]	23.42 [594.87]	4.75 [120.65]	---	9.50 [241.30]
1425	284/286T	13.00 [330.20]	24.92 [632.97]	5.50 [139.70]	9.50 [241.30]	11.00 [279.40]

DRAWING REVISION E	REVISION BY W. JOERGER	DATE 07-01-2015
ECO-0080734	APPROVED BY E. HEIL	DATE 07-01-2015
ECO DESCRIPTION REMOVED COVER PLATE AND SEAL FROM O.D.E.		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	+0.1	[+2.5]
.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	5.1
	INCH	mm
mm SHOWN IN [BRACKETS]		

DRAWN BY NJS
DATE 10-03-2001
APPROVED BY BW
DATE 10-05-2001
REFERENCE
THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
280T FR. - TEAO / TENV - BB - STD - 12.50" LAM

MATERIAL
PROCESS/FINISH

SIZE
DRAWING NUMBER
SS311239

SHEET
1 OF 1



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWING NO.	PAGE OF	REV.	
					DEC.	INCHES					
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					EE7308	5		
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						
					±7'30"						
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							DIST WP				

CERTIFICATION DATA SHEET

Model#: 284TTNA16540 AA **WINDING#:** K2844120 R9 6
CONN. DIAGRAM: A-EE7308 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS311239-1275

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	1800	1775&1470	284TV	TEAO	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	62/31&60/30	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 93.6&93	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81&81	3/4 LOAD PF: 75	1/2 LOAD PF: 65	93	SQ CAGE INV RATED	27 / 13.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	362 / 181	140 LB-FT 189	215 LB-FT 291	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	4.2 LB-FT^2	175 LB-FT^2	25 SEC.	2	460 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL OR UP OR DOWN	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6311	BALL 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

INVERTER TORQUE: CONSTANT 20:1 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

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DATE: 06/27/2017 01:34:24 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 20-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



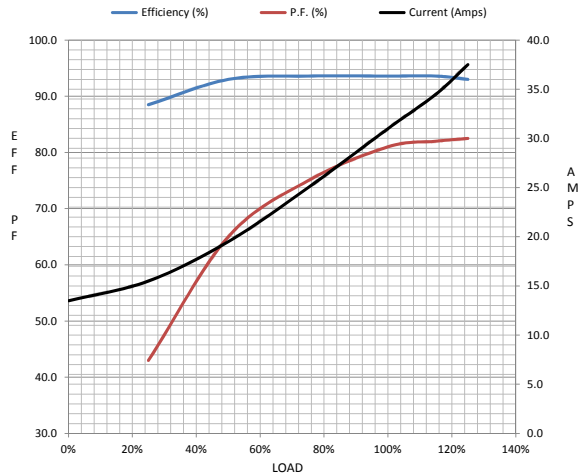
284TTTNA16540

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	1775	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						Information Block	
	LR	Pull-Up	BD	Rated	Idle		
Speed (RPM)	0	900	1675	1775	1800	HP	25.0
Current (Amps)	181	165	125	31.0	13.5	Sync. RPM	1800
Torque (ft-lb)	140	130	215	74.0	0.00	Frame	284
						Enclosure	TEAO
						Construction	TTN
						Voltage	30/460#190/38V
						Frequency	60 Hz
						Design	B
						LR Code letter	G
						Service Factor	1.15
						Temp Rise @ FL	0 ° C
						Duty	CONT
						Ambient	40 ° C
						Elevation	1,000 feet
						Rotor/Shaft wk²	4.2 Lb-Ft²
						Ref Wdg	K2844120 R9
						Sound Pressure @ 1M	999 dBA
						VFD Rating	CONSTANT 20:1
						Outline Dwg	B-SS311239-1275
						Conn. Diag	A-EE7308



Information Block				
HP	25.0			
Sync. RPM	1800			
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VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS311239-1275			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1500	0.1540	0.8520	1.0660	20.0640

