

PRODUCT INFORMATION PACKET



Model No: 811559.00
Catalog No: 811559.00
25 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 284T Frame, TEFC
Severe Duty Motors



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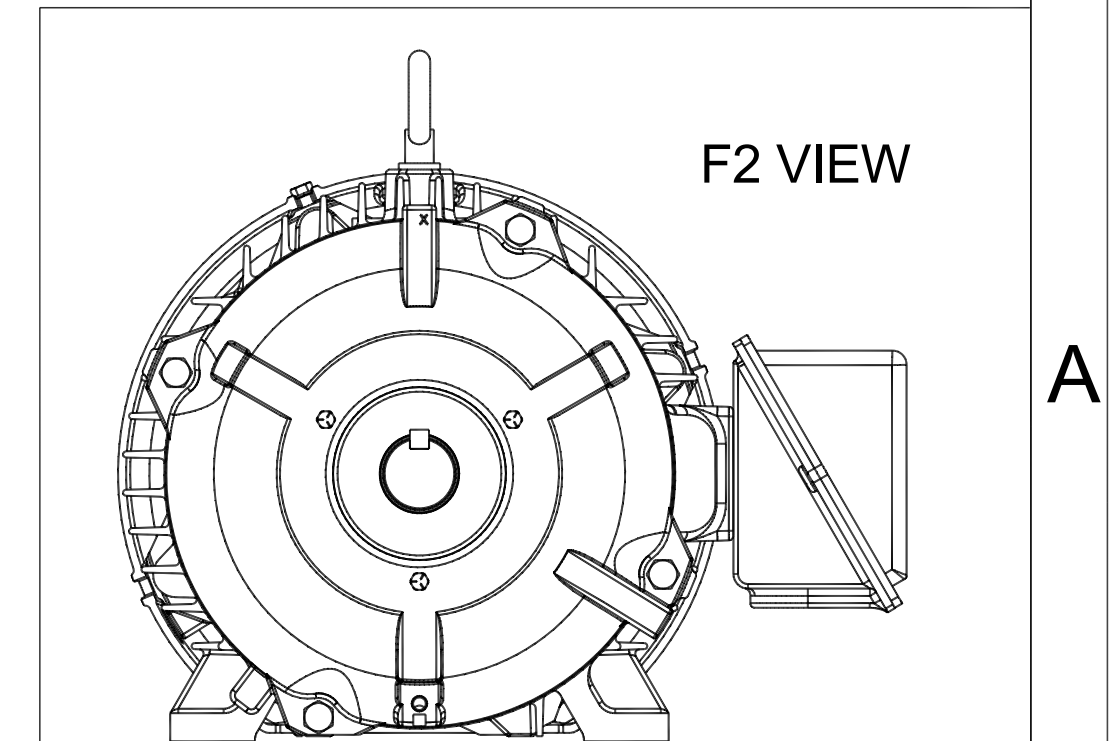
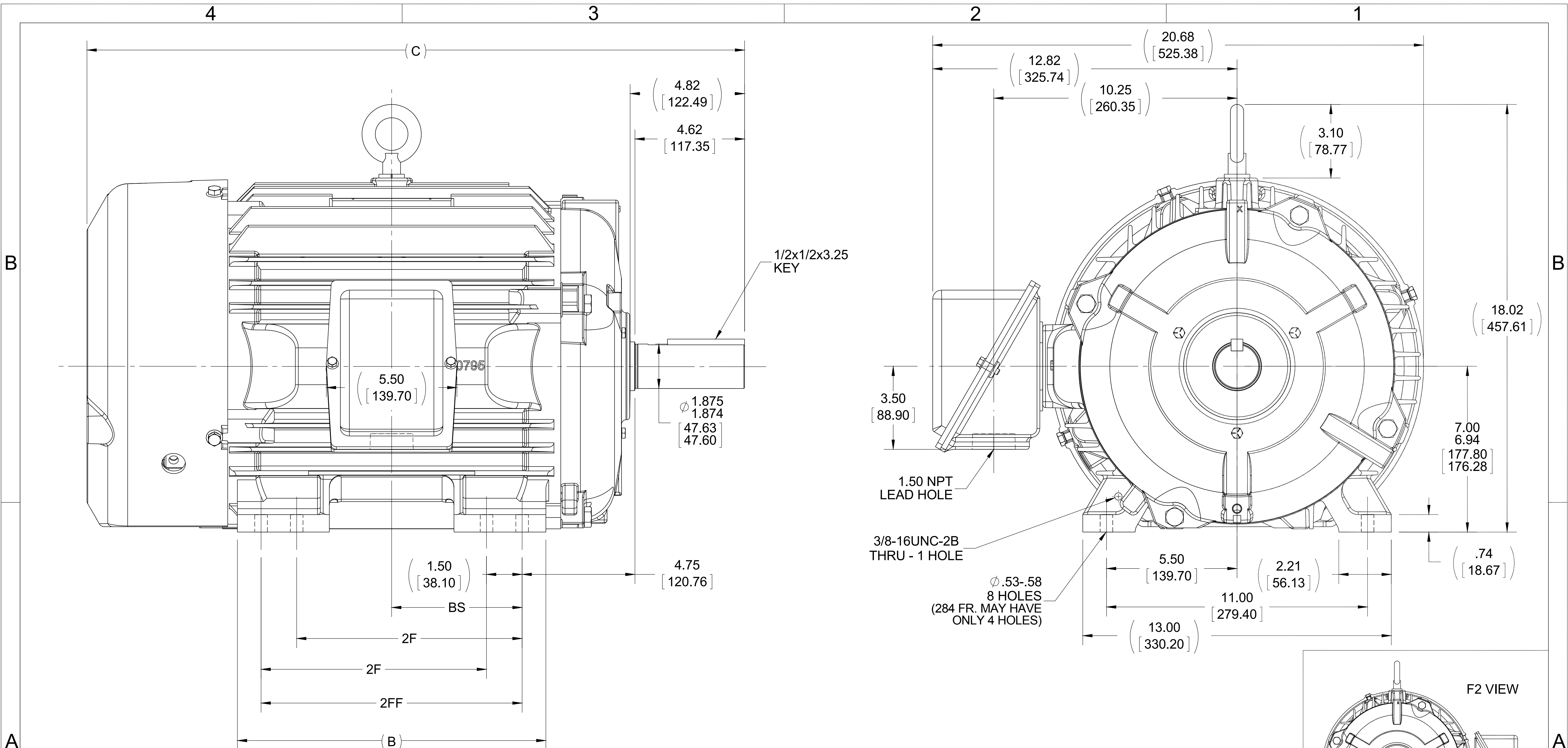


Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	460 V
Current	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	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.271 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	26.21 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 20:1		
Connection Drawing	A-EE7300-LE	Outline Drawing	B-SS311057LE-1275



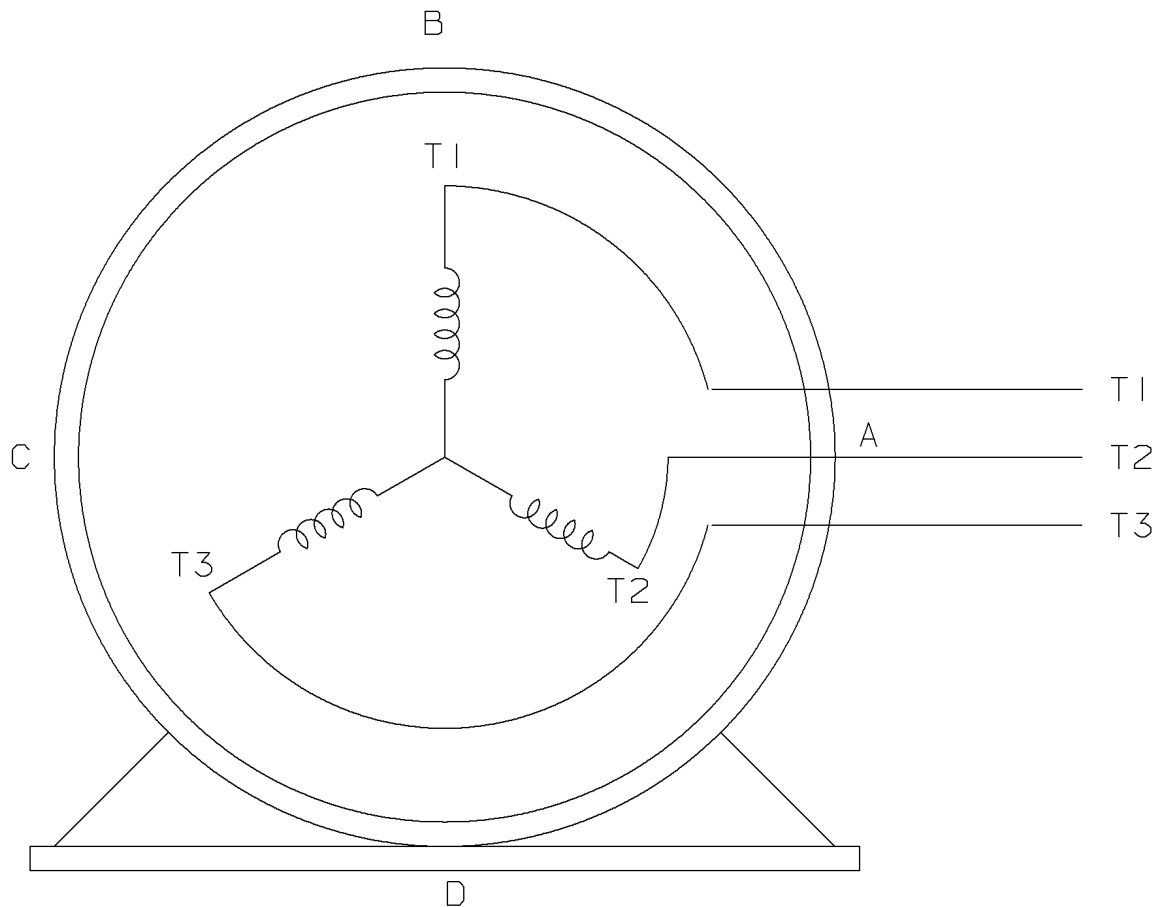
- NOTES:
1. CONDUIT BOX CAN BE ROTATED UP TO 270° FROM ITS ORIGINAL POSITION.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1275	284T	26.21	12.50	---	9.50	4.75
1425	284/286T	27.71	13.00	9.50	11.00	5.50
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION D	REVISION BY M.MCCALEB	DATE 08-06-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY RWR	REGAL ™ Regal Beloit America, Inc.
ECO ECO-0083034	APPROVED BY	DATE	DEC. .X ±0.1 [±2.5]	ANGLE ±0.5°	DATE 08-17-2007	
ECO DESCRIPTION			.XX ±0.01 [±0.25]		APPROVED BY DR	DESCRIPTION
UPDATED TITLE BLOCK			.XXX ±0.005 [±0.127]		DATE 08-21-2007	OUTLINE
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.			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]		REFERENCE	280T FR. - BB - STD - 12.50 LAM.
					THIRD ANGLE PROJECTION	MATERIAL
					SIZE B	PROCESS/FINISH
					DRAWING NUMBER SS311057LE	SHEET 1 OF 1

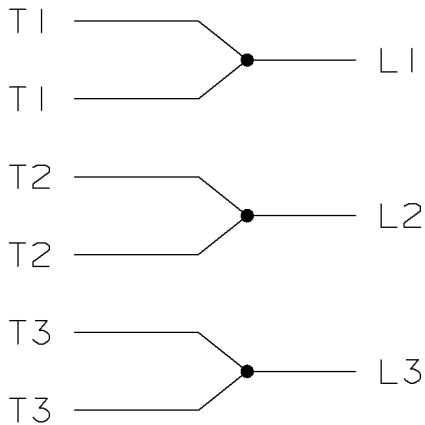
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS




VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A-9806 DECAL

						TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 05-22-2002		
						DEC.	TOLERANCE		CHK ML 05-22-2002		
						.X	± .1		APPD GK 05-22-2002		
						.XX	± .02		SCALE		
						.XXX	± .005		REF		
1	NEW DRAWING	MSG	05-22-2002	ML	.XXXX	± .0005	TITLE CONNECTION DIAGRAM SINGLE VOLT - 3Ø MOTOR	FMF			
NO.	REVISION	BY	DATE	CHK	ANG	± 7'30'	<input checked="" type="checkbox"/> SURFACE ROUGHNESS UNLESS SPECIFIED	MAT'L.	PREV		
				PURCHASED		CAD FILE EE7300-LE		SHOP BOOK	SIZE A	DRAWING NO. EE7300-LE	REV. I
				DIST WA - LB - WP - LM - OR - OR							



**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300-LE

CATALOG #: 811559.00

OUTLINE: B-SS311057LE-1275

MOUNTING: F1/F2 CAPABLE

WINDING #: K2844161 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25	18.7	1800	1775	284T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	31	LINE OR INVERTER	CONTINUOUS	F3	1.15	40

FULL LOAD EFF:	93.6	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	81	3/4 LOAD PF:	76	1/2 LOAD PF:	65.5	93		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	182	138 LB-FT 186 %	185 LB-FT 250 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	4.2 LB-FT^2	175 LB-FT^2	50 SEC.	2	475 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2	FALSE	NONE	GREEN - LEESON (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
311	210						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*
N
O
T
E

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 FT-LB NONE V NONE Hz

Data Sheet

Date: 1/29/2018

811559.00



Data @ **460 V**

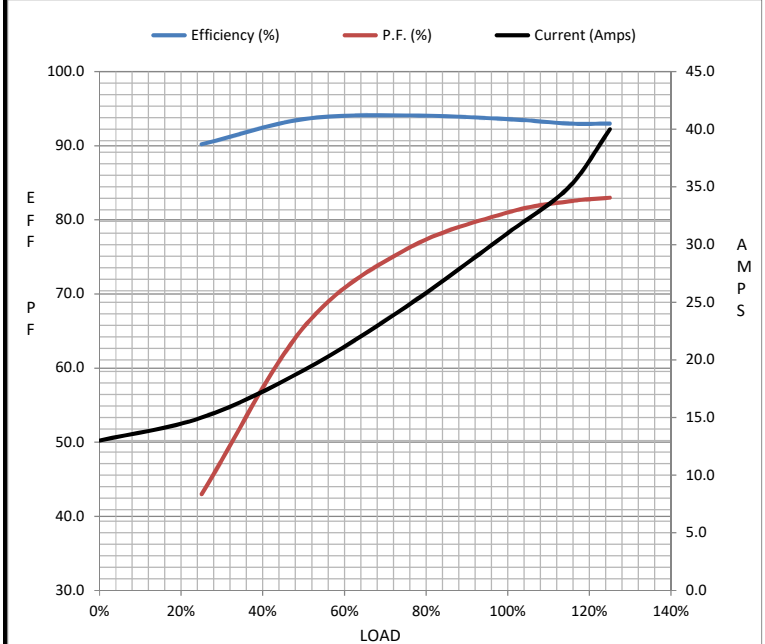
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	13.0	15.0	19.1	24.6	31.0	35.0	40.0	182
Torque (ft-lb)	0.00	18.3	37.0	55.5	74.0	85.5	93.0	138
RPM	1800	1793	1787	1780	1772	1.767	1763	0
Efficiency (%)		90.2	93.6	94.1	93.6	93.0	93.0	
P.F. (%)	3.0	43.0	65.5	76.0	81.0	82.5	83.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1662	1772	1800
Current (Amps)	182	169	108	31.0	13.0
Torque (ft-lb)	138	117	185	74.0	0.00

Information Block				
HP	25.0			
Sync. RPM	1800			
Frame	284			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	4.2 Lb-Ft ²			
Ref Wdg	K2844161 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS311057LE-1275			
Conn. Diag	A-EE7300-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1810	0.1570	0.8480	1.0850	19.7750



Speed - Torque Curve

