

PRODUCT INFORMATION PACKET



Model No: 850841.00

Catalog No: 850841.00

Hydraulic Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190-208/380-415 V, 1800 & 1500 RPM,
286 Frame, TEFC

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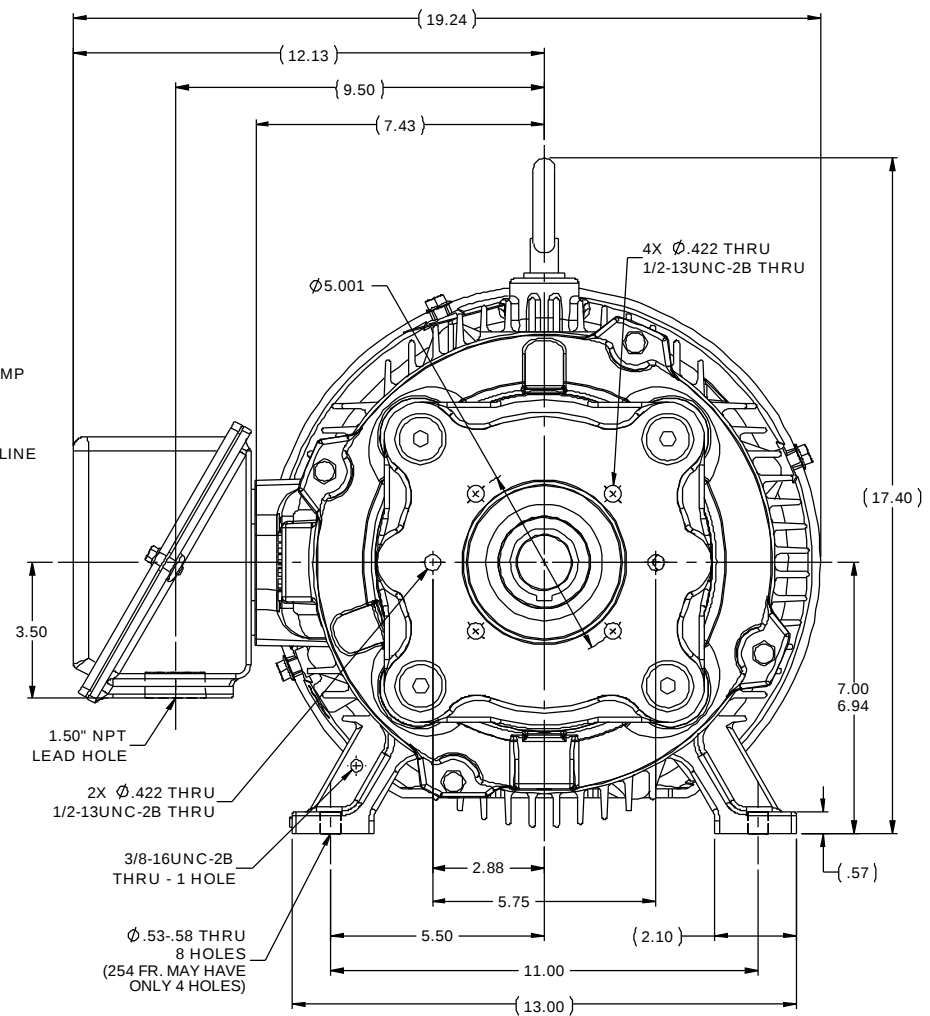
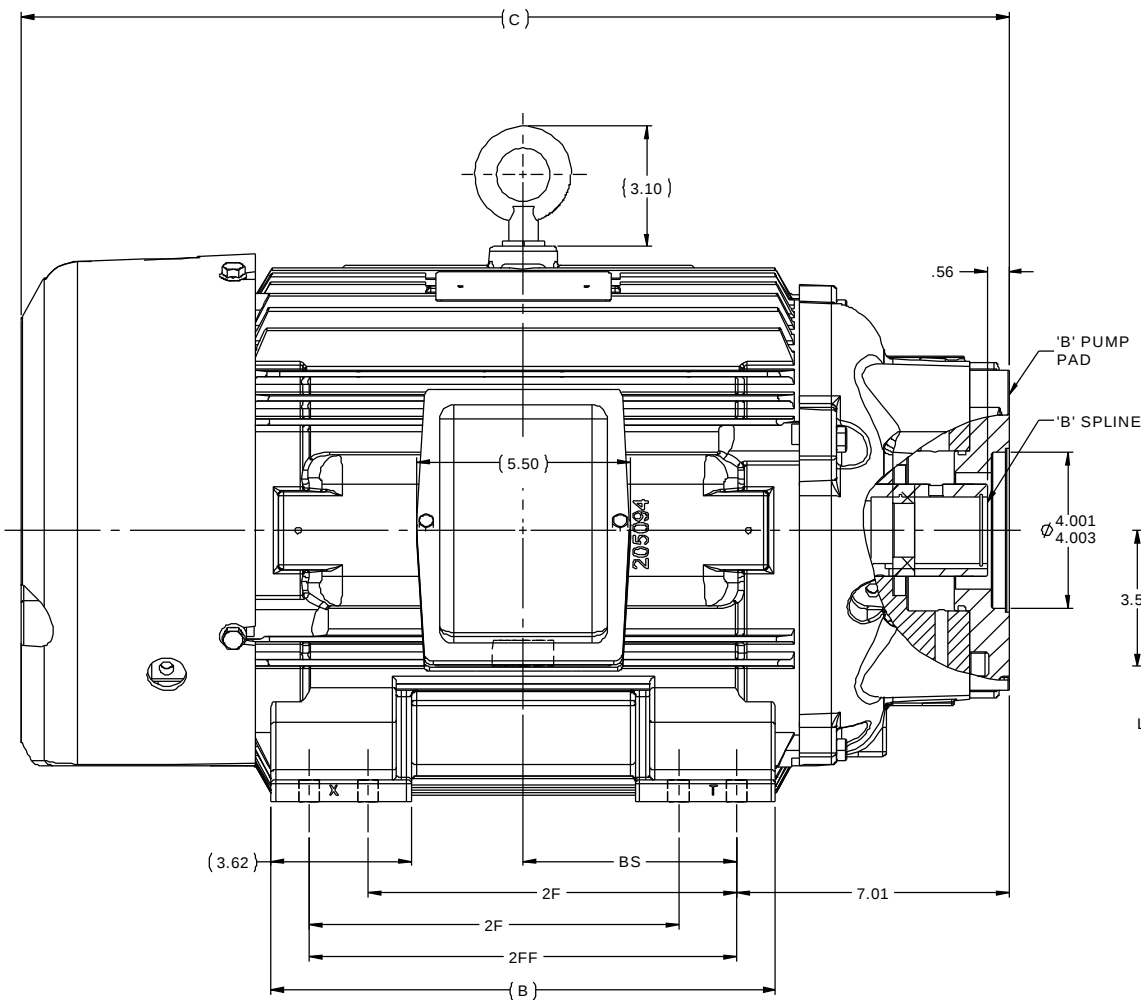


Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190-208/380-415 V
Speed	1773 & 1475 rpm	Service Factor	1.15 & 1.0
Frame	286	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	73/36.5 & 74-70/37-35 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.205 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Hyd Pump Adaptor Shaft	Overall Length	25.44 in
Frame Length	14.26 in	Shaft Extension	SPLINE SHAFT in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	A-EE7308	Outline Drawing	B-SS208337LE-1425



- 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.

1275	284TZ	23.94	11.50	- - -	9.50	4.75
1425	284/286TZ	25.44	13.00	9.50	11.00	5.50
DASH	FRAME	C	B	2F	2FF	BS

TOLERANCES UNLESS SPECIFIED				LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN CTO 03-14-2013	
DEC	INCHES					CHK LMC 05-30-2013	
X	±.1					APPR TDW 05-30-2013	
XX	±.03			TITLE OUTLINE - TEFC - HYDRAULIC PUMP PAD		SCALE 5:16	
XXX	±.005			284/286TZ FR. - 11.00 LAM. - CAST IRON BOX		REF	
XXXX	±.0005			MAT'L		FMF MU112690	
NO	REVISION	BY & DATE	CHK ANG ±7°30"	FINISH	PAGE OF		
THIRD ANGLE PROJECTION			RFP 05-31-2013	PREV	SIZE B	DRAWING NO SS208337LE	REV
			NETWORK FILE NAME SS208337LE				



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		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 ee7308	SIZE	DRAWING NO. PAGE OF REV.
					DIST WP		A	EE7308 5



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308

CAT #: 850841.00

OUTLINE: B-SS208337LE-1425

WINDING: K2864159

NONE 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1773	286	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190-208/380-415	73/36.5&74-70/37-35	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF		ELECT. TYPE	
F.L. PF	82.0	3/4 LD PF	77.0	1/2 LD PF	67.5	93.6		SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
89.0 LB-FT	217	165 LB-FT 185%	245 LB-FT 275%	60	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
65 dBA	74 dBA		4.6 LB-FT²	225 LB-FT²	25 SEC.	2	540 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
PUMP SAE MOUNT	STANDARD	RIGID	HORIZONTAL	TRUE	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	D PUMP ADAPTOR SHA	SAE B - SPLINE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312 6210						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.125	0.136	0.724	0.937	17.785	0.080	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/4/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 9/4/2018

850841



Data @ 460 V

Motor Load Data

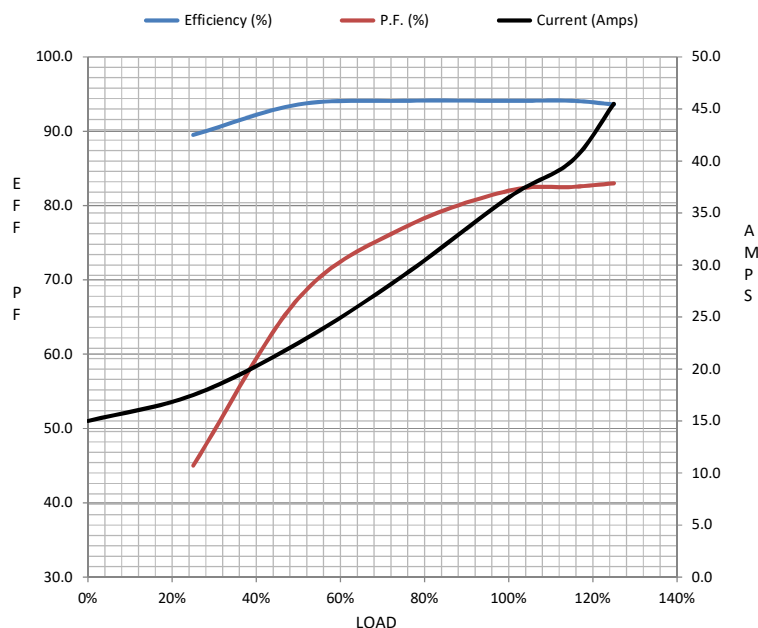
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	17.5	22.5	29.0	36.5	40.0	45.5	217	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	100	112	165	
RPM	1800	1795	1785	1780	1773	1,770	1765	0	
Efficiency (%)		89.5	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	6.0	45.0	67.5	77.0	82.0	82.5	83.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1650	1773	1800
Current (Amps)	217	200	130	36.5	15.0
Torque (ft-lb)	165	155	245	89.0	0.00

Information Block

HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460#190-208/380-415 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 wk²	4.6 Lb-Ft²			
Ref Wdg	K2864159 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS208337LE-1425			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1250	0.1360	0.7240	0.9370	17.7850



Speed - Torque Curve

