

# PRODUCT INFORMATION PACKET



Model No: 193335.60

Catalog No: 193335.60

LEESON® PASSPORT 3 HP General Purpose, 3 phase, 1200 RPM, 230/460 V, 112M Frame, TEFC



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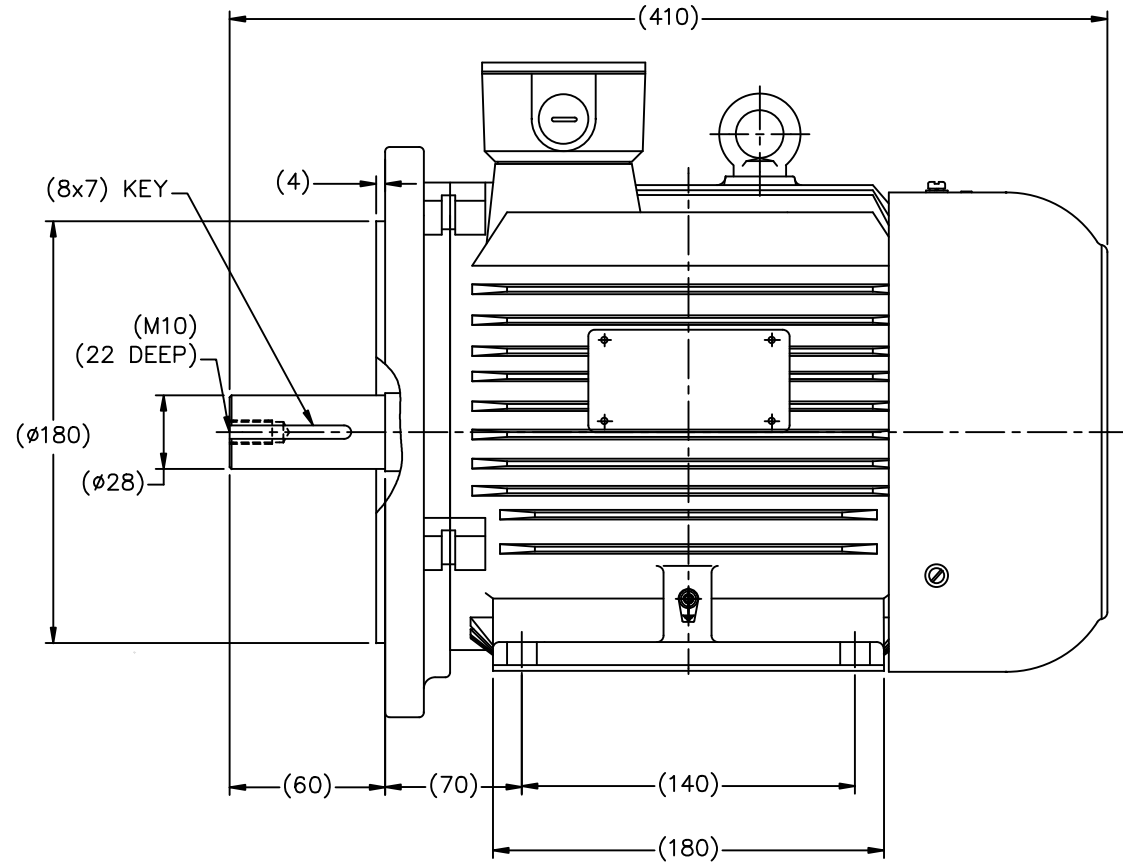
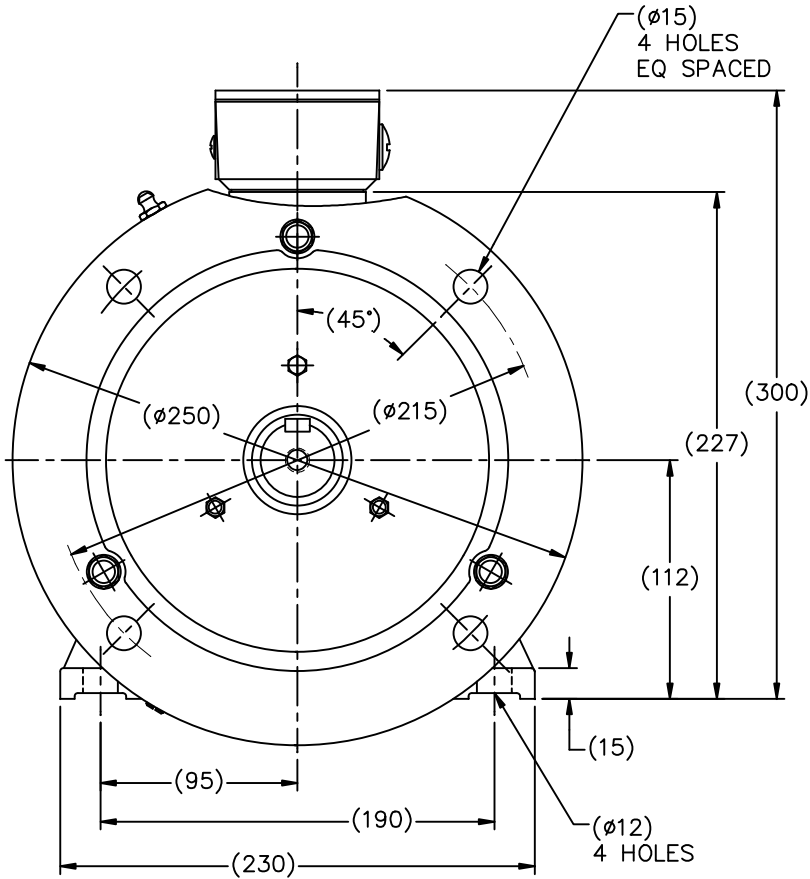


### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>3 &amp; 2 Hp</b>
Output KW	<b>2.2 &amp; 1.5 kW</b>	Voltage	<b>230/460 &amp; 200/400 V</b>
Speed	<b>1178 &amp; 985 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>112M</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>89.5 &amp; 87.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>9.6/4.8 &amp; 8.8/4.4 A</b>	Power Factor	<b>65.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>J</b>
Drive End Bearing Size	<b>6306</b>	Opp Drive End Bearing Size	<b>6306</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>55</b>
Number of Speeds	<b>1</b>		

### Technical Specifications


Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>2.02 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>IEC</b>	Overall Length	<b>16.14 in</b>
Shaft Diameter	<b>1.125 in</b>	Shaft Extension	<b>2.36 in</b>
Assembly/Box Mounting	<b>F3</b>		
Connection Drawing	<b>005465.01</b>	Outline Drawing	<b>SS622261</b>

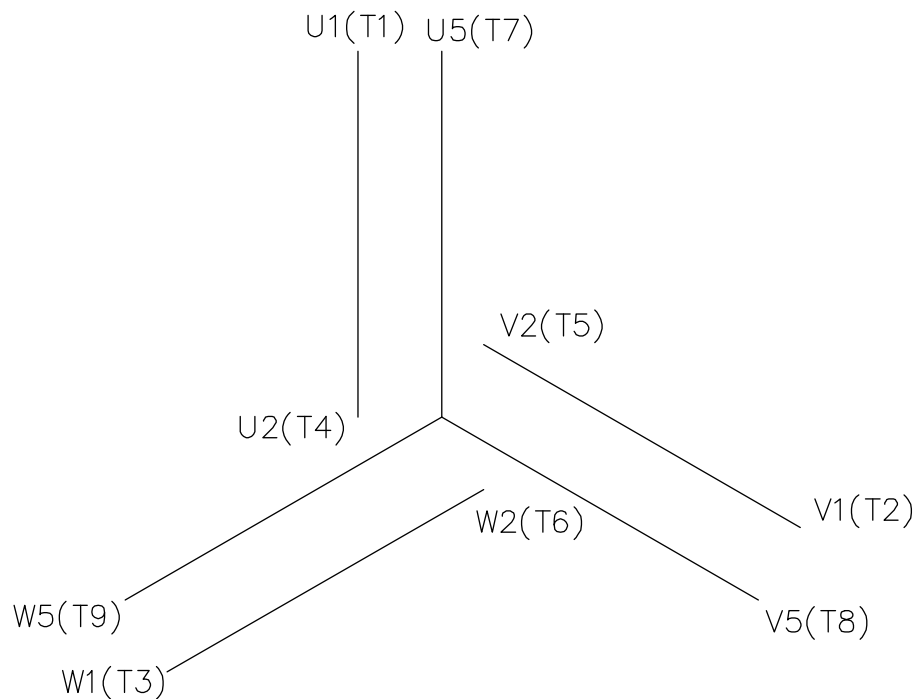


Cat.No	FRAME
193339.60	DF112MD-2R
193340.60	DF112MD-4R
193335.60	DF112MD-6R

(MAY NOT BE DRAWN TO SCALE)

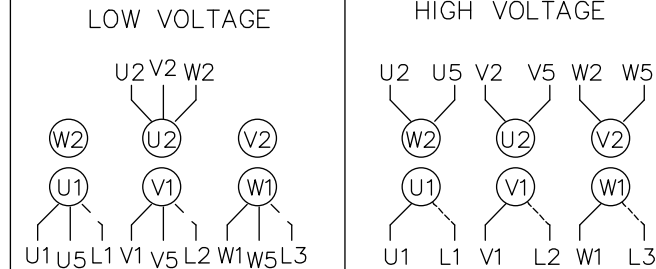
(DIMENSIONS ARE IN MILLIMETERS)

NO.		REVISION	BY & DATE	CHK	ANG	FINISH	TOLERANCES UNLESS SPECIFIED		 TITLE OUTLINE DF112MD-2,4,6R MAT'L	DRAWN HLB 12-07-2010					
							DEC.	METRIC		CHK	DJK 12-17-2010				
							.X	±2.5		APPD	SB 12-18-2010				
							.XX	±.76		SCALE	1=18				
							.XXX	±.127	REF						
							.XXXX	±.0127	FMF	HEBEI					
									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	12-22-2010	CAD FILE	SS622261	SIZE	DRAWING NO.	PAGE	OF	REV.
							DIST				B	SS622261			



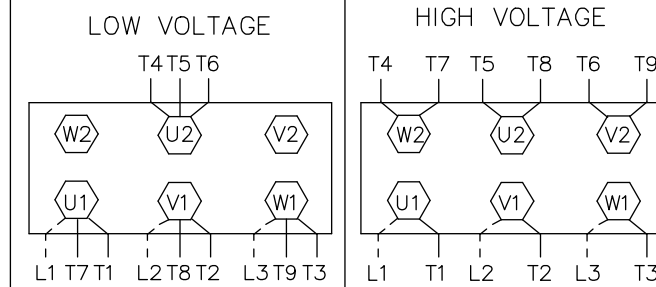
REF. DECAL (IEC) 080644  
REF. DECAL (NEMA) 080446

IEC MARKINGS



LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	U1,U5	V1,V5	W1,W5	---	U2,V2,W2	---
HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5

NEMA MARKINGS



LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	T1, T7	T2, T8	T3, T9	---	T4,T5,T6	---
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2'



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

DRAWN MGM 12/3/02

CHK

APPD

SCALE 1=1

REF 00537703

FMF

PREV

TITLE EXTERNAL WIRING DIAGRAM  
3 PHASE - DUAL VOLTAGE - W/TERM BLOCK

MAT'L. IEC/NEMA MARKINGS

FINISH THERMAL TRANSFER

NO.	REVISION	BY & DATE	CHK
01	NEMA LV CONNECTION WAS INCORRECT	RLW 8/4/03	

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DIST

CAD FILE 00546501

SIZE A  
DRAWING NO. 005465-01  
REV. 01



**CERTIFICATION DATA SHEET**

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

**CATALOG #:** 193335.60

**CONN. DIAGRAM:** 005465.01

**OUTLINE:** SS622261

**MOUNTING:** F3

**WINDING #:** T08706007 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1200	1178&985	112M	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	9.6/4.8&8.8/4.4	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	89.5&87.5	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	87.5	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	65.5&56	3/4 LOAD PF:	58	1/2 LOAD PF:	46	85.5		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.3 LB-FT	58 / 29	27.5 LB-FT 206 %	41.5 LB-FT 312 %	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
54 dBA	64 dBA	- LB-FT^2	- LB-FT^2	10 SEC.	-	110 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAIN
FF-FLANGE-215	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6306	6306						

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

\*  
N  
O  
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\*

<b>INVERTER TORQUE:</b> CONSTANT 10:1
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/23/2018

193335.60



Data @ **460 V**

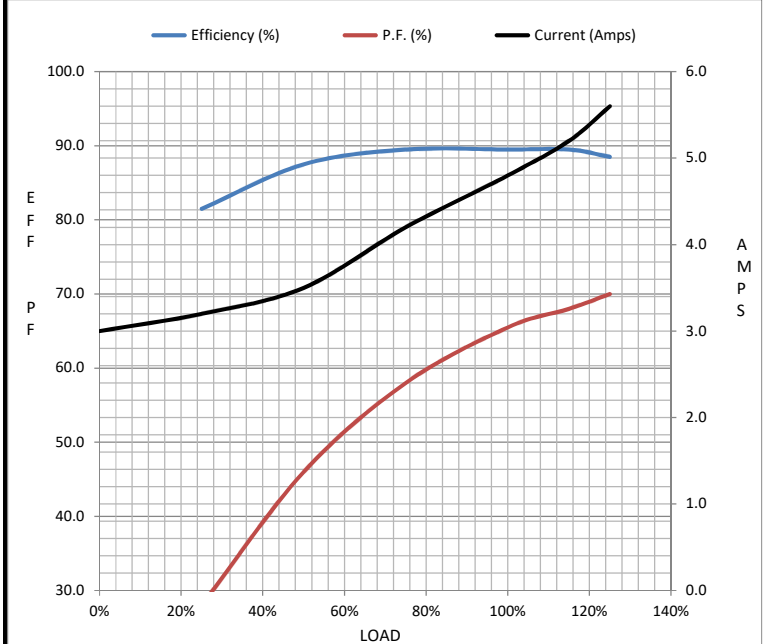
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.0	3.2	3.5	4.2	4.8	5.2	5.6	29.0
Torque (ft-lb)	0.00	3.3	6.6	10.0	13.3	15.5	16.7	27.5
RPM	1200	1195	1190	1185	1178	1,175	1170	0
Efficiency (%)		81.5	87.5	89.5	89.5	89.5	88.5	
P.F. (%)	5.0	28.0	46.0	58.0	65.5	68.0	70.0	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1178	1200
Current (Amps)	29.0	26.0	18.0	4.8	3.0
Torque (ft-lb)	27.5	24.0	41.5	13.3	0.00

Information Block				
HP	3.0			
Sync. RPM	1200			
Frame	112			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.00 Lb-Ft <sup>2</sup>			
Ref Wdg	T08706007 NONE			
Sound Pressure @ 1M	54 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS622261			
Conn. Diag	005465.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

