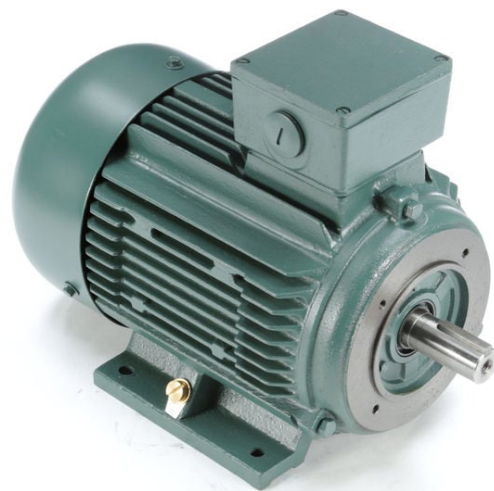


PRODUCT INFORMATION PACKET



Model No: 193374.60
Catalog No: 193374.60

LEESON® PASSPORT 15 HP General Purpose, 3 phase, 1800 RPM, 230/460 V, 160M Frame, TEFC



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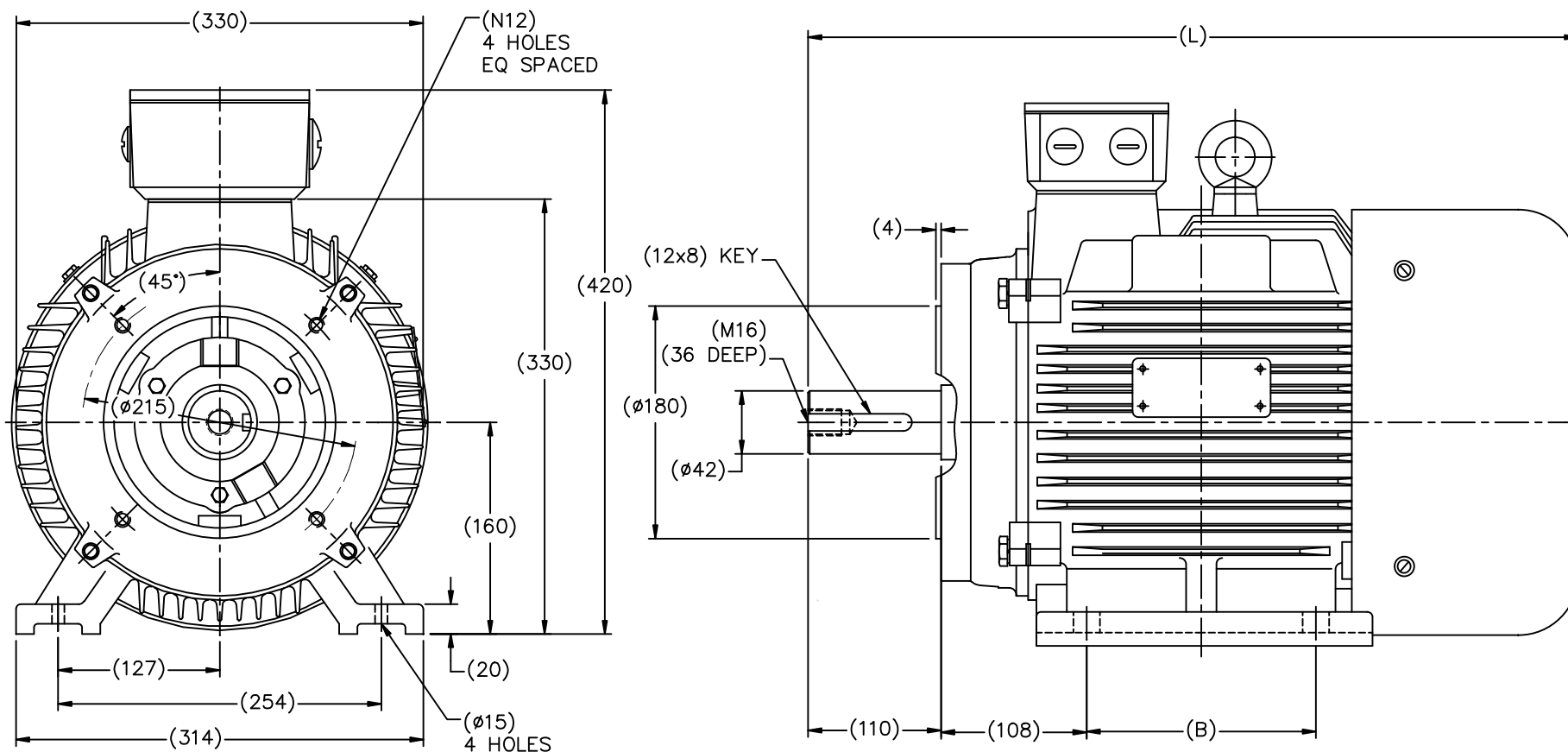


Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	230/460 & 200/400 V
Speed	1775 & 1482 rpm	Service Factor	1.15 & 1.15
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	37/18.5 & 31/15.5 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.129 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	23.62 in
Shaft Diameter	1.625 in	Shaft Extension	4.33 in
Assembly/Box Mounting	F3		
Outline Drawing	B-SS622271	Connection Drawing	004172.01



Cat. No	MODEL	B	L
193373.60	DF160MC1-2R	210	600
193376.60	DF160MC2-2R	210	600
193374.60	DF160MC-4R	210	600
193378.60	DF160LC-2R	254	645
193377.60	DF160LC-4R	254	645
193372.60	DF160MC-6R	210	600

(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS ARE IN MILLIMETERS)

TOLERANCES UNLESS SPECIFIED		DEC. METRIC		TITLE OUTLINE		DRAWN HLB 12-09-2010	
.X		±2.5		REGAL-BELOIT CORPORATION		CHK DJK 12-17-2010	
.XX		±.76		DF160MC,LC-2,4,6R		APPD SB 12-18-2010	
.XXX		±.127		MAT'L		SCALE 1=18	
.XXXX		±.0127		FINISH		REF	
NO.		REVISION		BY & DATE		FMF HEBE	
CHK		ANG		±7°30"		PREV	
RFP		12-21-2010		CAD FILE SS622271		SIZE B	
DIST						DRAWING NO. PAGE OF	
						SS622271	
						REV.	

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WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN WLW 09/08/77

CHK RPB 09/12/77

APPD JCW 09/12/77

SCALE 1=1

REF

FMF

PREV

NO.	REVISION	BY & DATE	CHK	ANG
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00	.XX	±.01
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98	.XXX	±.005
01	REDRAWN TO CAD	DBT 06/02/97	.XXXX	±.0005

TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

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RFP

DIST

CAD FILE 00417201

SIZE

A

DRAWING NO.

004172-01

REV.

03



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

CATALOG #: 193374.60

CONN. DIAGRAM: 004172.01

OUTLINE: B-SS622271

MOUNTING: F3

WINDING #: T12904005 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15&10	11.2&7.50	1800	1775&1482	160M	TEFC	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	37/18.5&31/15.5	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	92.4&91.7	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	91.7	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	82.5&76	3/4 LOAD PF:	78	1/2 LOAD PF:	67.5	-		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.6 LB-FT	280 / 140	126 LB-FT 284 %	154 LB-FT 347 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	2.09 LB-FT^2	2.1 LB-FT^2	15 SEC.	2	- LBS.

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

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
6309	6209	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON

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

*

N

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E

INVERTER TORQUE: CONSTANT 10:1
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 NO BRAKE Hz

Data Sheet

Date: 1/22/2018

193374.60



Data @ 460 V

Motor Load Data

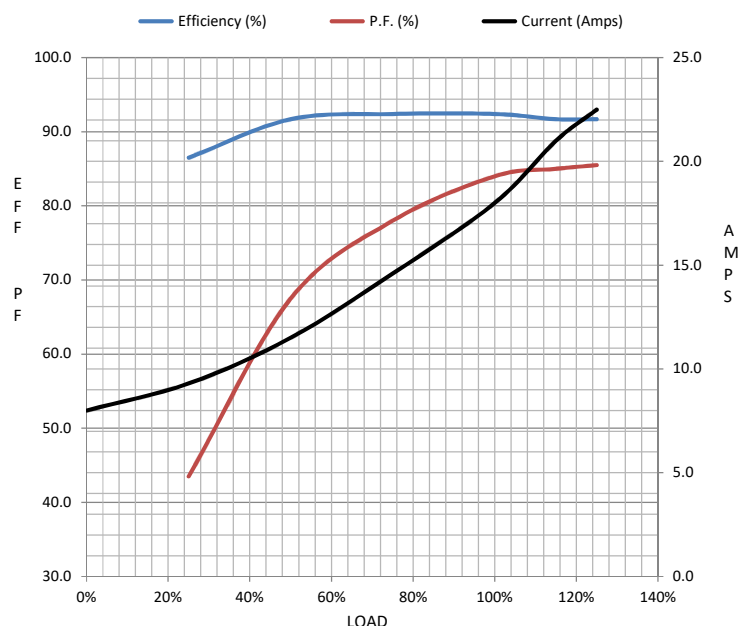
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.0	9.3	11.5	14.6	18.0	21.0	22.5	140	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.6	51.3	55.7	126	
RPM	1800	1794	1788	1780	1765	1770	1765	0	
Efficiency (%)		86.5	91.7	92.4	92.4	91.7	91.7		
P.F. (%)	6.0	43.5	67.5	78.0	84.0	85.0	85.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	467	1620	1765	1800
Current (Amps)	140	130	79.5	18.0	8.0
Torque (ft-lb)	126	98.5	154	44.6	0.00

Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#200/400	V		
Frequency	60	Hz		
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	2.09	Lb-Ft²		
Ref Wdg	T12904005 NONE			
Sound Pressure @ 1M	999	dBa		
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS622271			
Conn. Diag	004172.01			
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

