PRODUCT INFORMATION PACKET



Model No: 193351.60 Catalog No: 193351.60

LEESON® PASSPORT 20 HP General Purpose, 3 phase, 3600 RPM, 230/460 V, 160M Frame, TEFC





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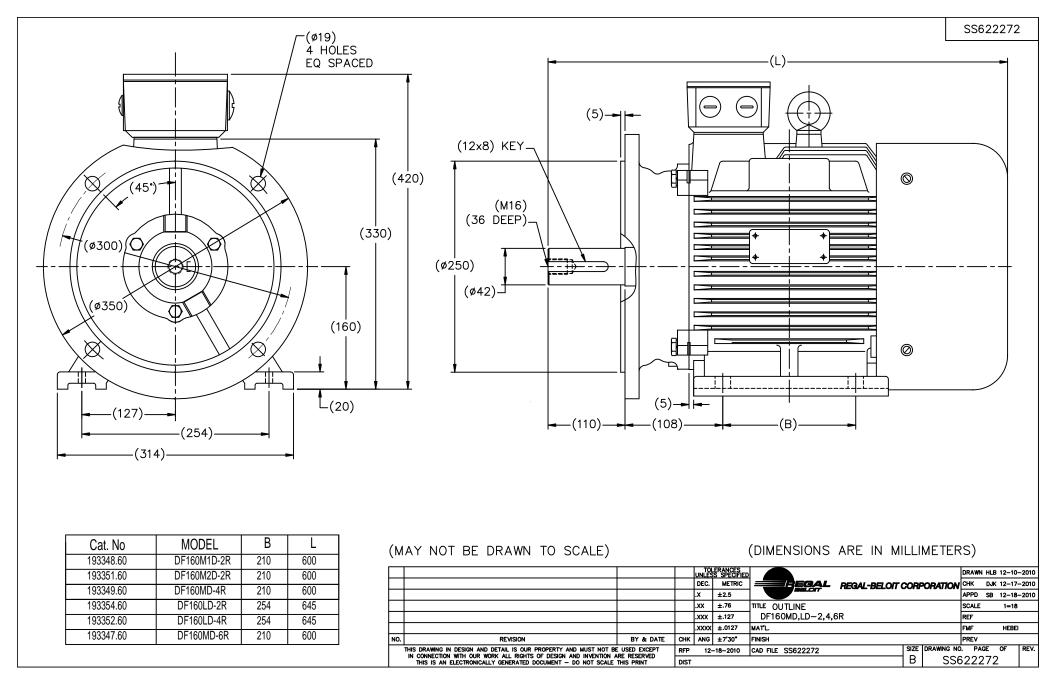
Nameplate Specifications

3	Output HP	20 & 15 Hp
14.9 & 11.2 kW	Voltage	230/460 & 200/400 V
3545 & 2960 rpm	Service Factor	1.15 & 1.15
160M	Enclosure	Totally Enclosed Fan Cooled
Thermostat	Efficiency	91 & 91 %
40 °C	Frequency	60 & 50 Hz
47/23.5 & 41/20.5 A	Power Factor	88
Continuous	Insulation Class	F
В	KVA Code	G
6309	Opp Drive End Bearing Size	6209
Recognized	CSA	Υ
Υ	IP Code	55
1		
	14.9 & 11.2 kW 3545 & 2960 rpm 160M Thermostat 40 °C 47/23.5 & 41/20.5 A Continuous B 6309 Recognized	14.9 & 11.2 kW Voltage 3545 & 2960 rpm Service Factor 160M Enclosure Thermostat Efficiency 40 °C Frequency 47/23.5 & 41/20.5 A Power Factor Continuous Insulation Class B KVA Code 6309 Opp Drive End Bearing Size Recognized CSA

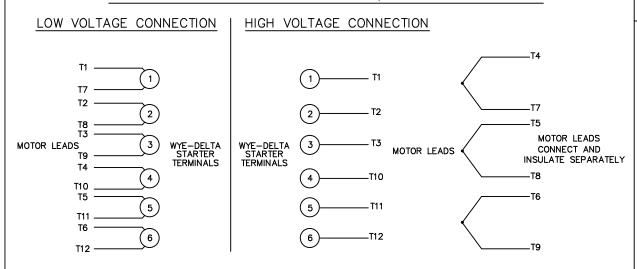
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
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
Connection Drawing	004172.01	Outline Drawing	B-SS622272

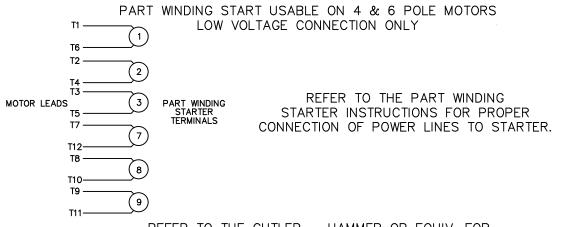
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WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.



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



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

				TOL UNLES	ERANCES S SPECIFIED				L ELECTRIC	MOT	TORS	DRAWN	WLW 09/0	08/77
				DEC.	INCHES			\bullet	GEARM	OTOR	RS	снк	RPB 09/12	:/77
				.x	±.1				AND [DRIVE	ES	APPD	JCW 09/12	2/77
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00		.xx	±.01	TITLE	DELTA -	WYE (CONNECTION	DIA	GRAM	SCALE	1=1	
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98		.xxx	±.005							REF		
01	REDRAWN TO CAD	DBT 06/02/97		.xxxx	±.0005	MAT'L.						FMF		
NO.	REVISION	BY & DATE	СНК	ANG	±1/2*	FINISH						PREV		
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT B		RFP			CAD FILE	00	0417201		SIZE	DRAWING NO			REV.
	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION / THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE		DIST							Α	004	172-	-01	03

ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

• RED LEADS OR P1, P2, FOR N/C THERMOSTAT

	ACROSS	THE LINE	START	& RUN					
LINE 1 LINE 2 LINE 3 JOIN & INSULA 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						



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

CATALOG #: 193351.60

CONN. DIAGRAM: 004172.01

OUTLINE: B-SS622272 **MOUNTING:** F3

WINDING #: T12902029 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC, RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	3600	3545&2960	160M	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°С
3	60/50	230/460&200/400	47/23.5&41/20.5	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	91&91	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	88&87	3/4 LOAD PF:	86.5	1/2 LOAD PF:	82	89.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE			E	UE	F.L. RISE°C	
29.6 LB-FT	280 / 140	62.5	LB-FT	210 %	75.5	LB-FT	255 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	1.41 LB-FT^2	- LB-FT^2	20 SEC.	2	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
FF-FLANGE- 300	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		CDEACE	CHAFT TYPE	CDECIAL DE	SPECIAL ODE	SHAFT	FRAME	
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE SPECIAL ODE		MATERIAL	MATERIAL	
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	AICI 104E (C 240)	CAST IRON	
6309	6209	POLTREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CASTIRON	

	THERMO-PROTECT	ORS		THERMISTORS	CONTROL	OL SPACE HEATERS		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE	SPACE REALERS	
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS	

INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE Ν ENCODER: NONE NONE NONE 0 NONE PPR NONE Т BRAKE: NONE NONE P/N NONE NONE Е NONE NONE NONE FT-LB NONE V NONE Hz

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