PRODUCT INFORMATION PACKET

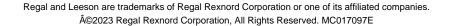


Model No: 193376.60

Catalog No: 193376.60

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









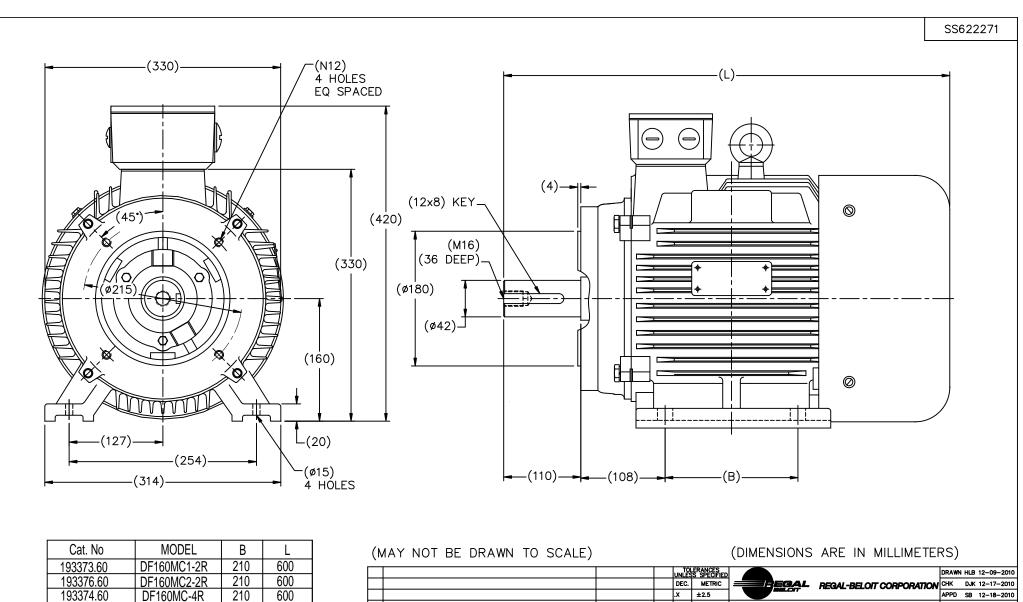
Nameplate Specifications

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	6308
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 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	В3	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
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS622271	Connection Drawing	004172.01

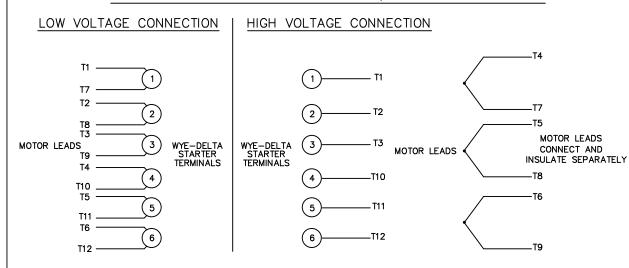
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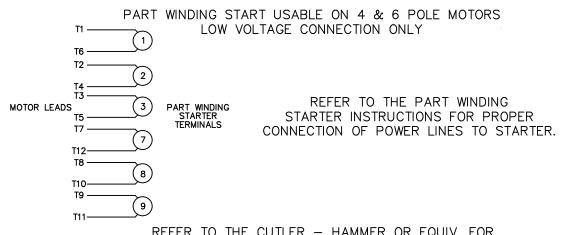
Cat. No	MODEL	В	L
193373.60	DF160MC1-2R	210	600
193376.60	DF160MC2-2R	210	600
193374.60	DF160MC-4R	210	600
193378.60	DF160LC-2R	254	645
193377.60	DF160LC-4R	254	645
193372.60	DF160MC-6R	210	600

				JUNLES	S SPECIFIED				1100 12-0	3-2010
				DEC.	METRIC	REGAL RE	REGAL-BELOIT CORPORATION		DJK 12-17	7-2010
				.x	±2.5				SB 12-18	8-2010
				.xx	±.76	TITLE OUTLINE		SCALE	1=18	8
				.xxx	±.127	DF160MC,LC-2,4,6R		REF		
				.xxxx	±.0127	MAT'L.		FMF	HEBE	El
NO.	. REVISION	BY & DATE	СНК	ANG	±7'30"	FINISH		PREV		
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT			12-	-21-2010	CAD FILE SS622271	SIZE DRAWING NO			REV.
1	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT						────── BI SS€	3222	271	

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.



110 011	J 111L 001L		I I/ \IVIIVILLI		14. 1 010
PROPER	SELECTION	OF	OVERLOAD	HEATER	COILS.
					TOLERANG

				UNLES	ERANCES S SPECIFIED				N ELECTRIC	MO.	TORS	DRAWN	WLW 09/0	8/77
				DEC.	INCHES		3=5		GEARM			снк	RPB 09/12,	/77
				.x	±.1				AND [DRIV	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		
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IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT						•				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 & 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								



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

CATALOG #: 193376.60

CONN. DIAGRAM: 004172.01

OUTLINE: B-SS622271 **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

РН	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. TOR	QUE		B.D. TORQ	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 ***

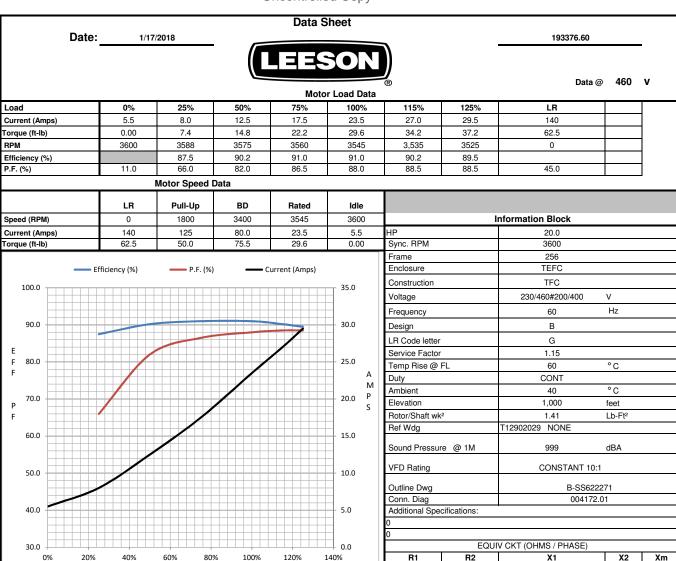
DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
FT-FLANGE- 215	STANDARD	В3	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		CDEACE	CHAFT TYPE	CDECTAL DE	CDECTAL ODE	SHAFT	FRAME	
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	POLYREX EM	CTANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON	
6309	6308	POLTKEX EM	STANDARD IEC	NONE				

	THERMO-PROTECT	THERMISTORS	CONTROL	SPACE HEATERS			
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE REATERS	
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 BRAKE: NONE NONE Т P/N NONE NONE Ε NONE NONE NONE FT-LB NONE V NONE Hz

5 of 7 7/19/2018







EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 193376.60

(Model No. may contain prefix and/or suffix characters)

Catalog No : 193376.60

Rework No: N/A

Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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