

PRODUCT INFORMATION PACKET



Model No: 199763.00

Catalog No: 199763.00

Close-Coupled Pump Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
182JM Frame, DP



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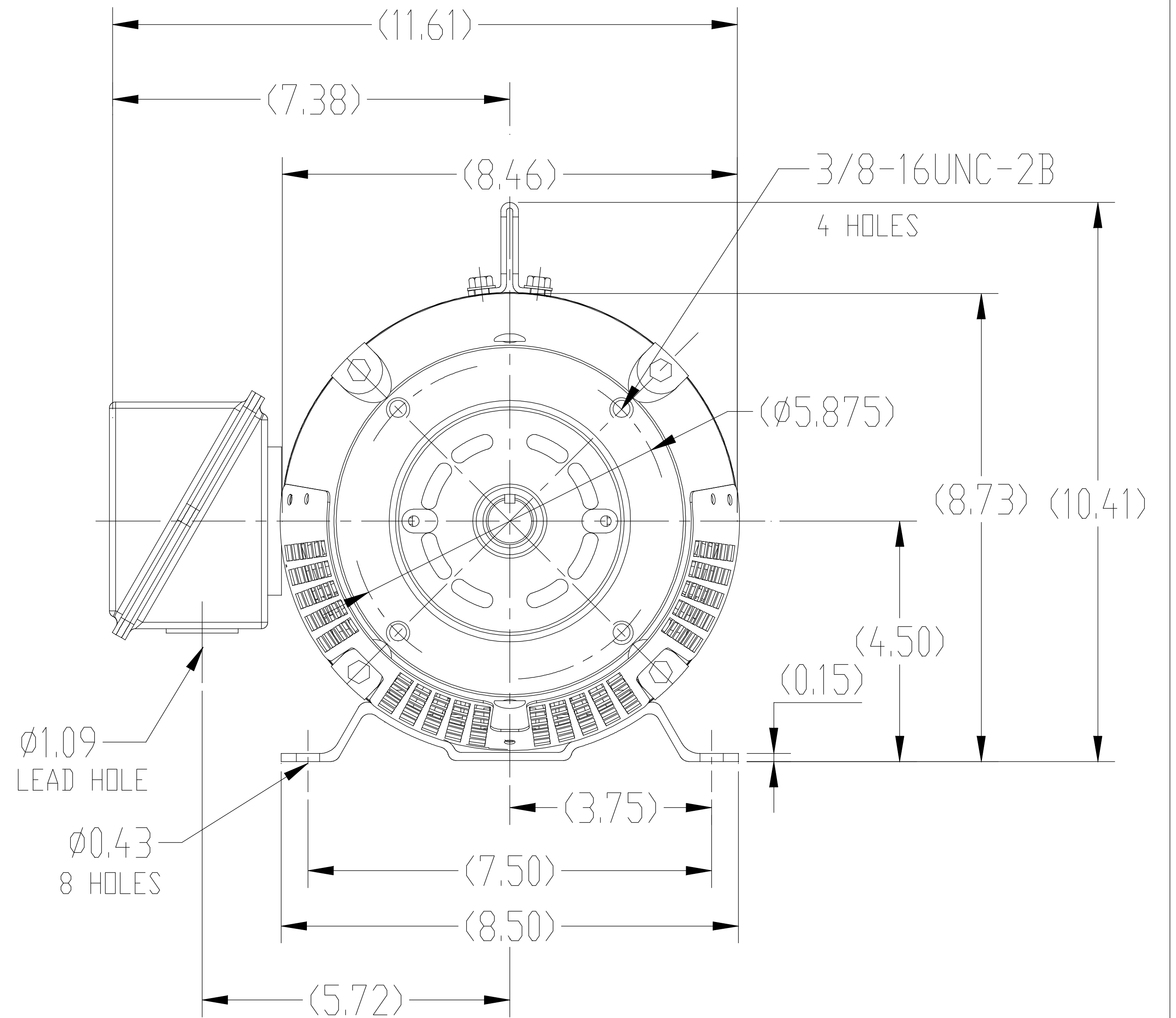
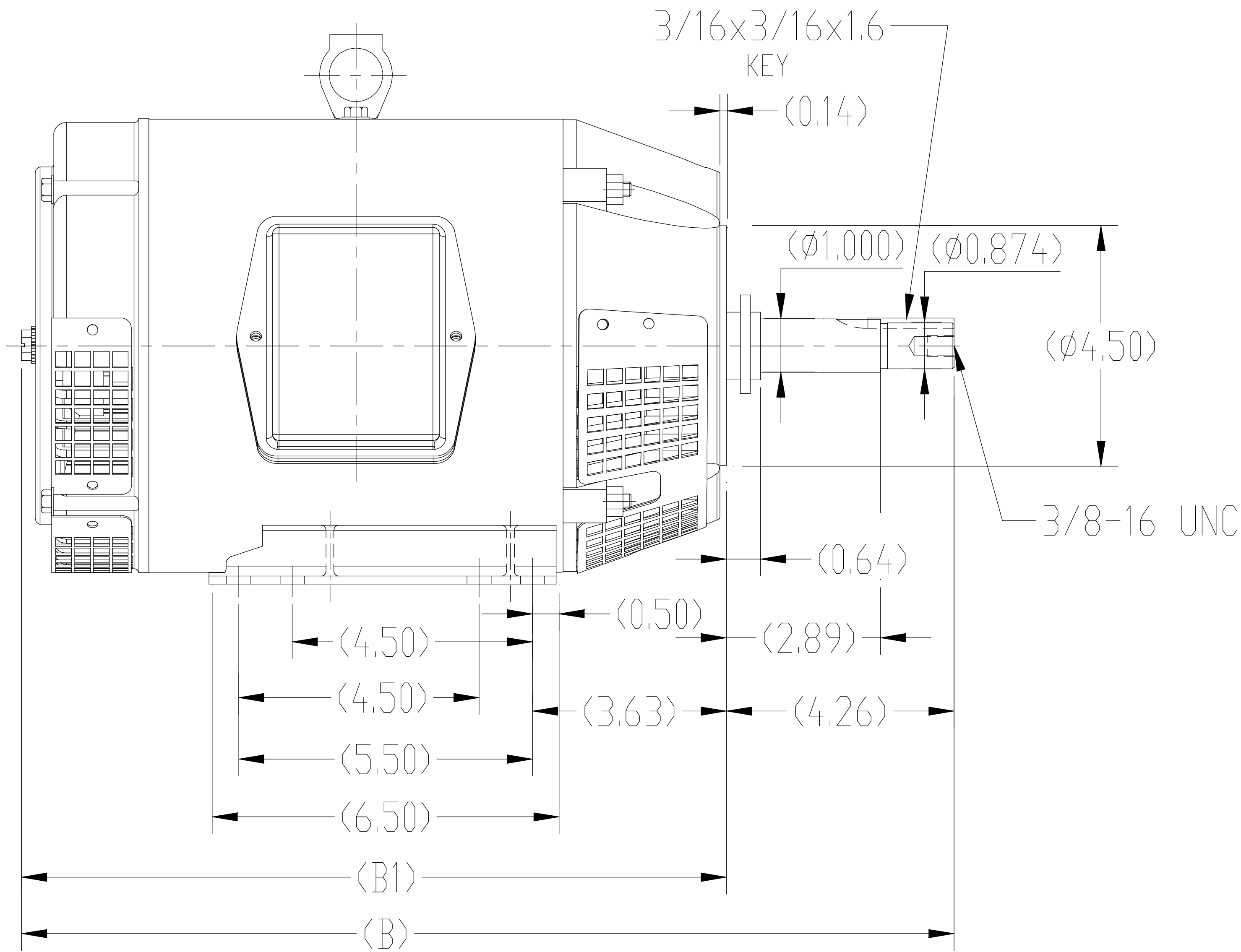
Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	3460 & 2915 rpm	Service Factor	1.15 & 1.0
Frame	182JM	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	87.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	12.4/6.2 & 9/4.5 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		


Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	3.05 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	17.37 in
Frame Length	6.73 in	Shaft Diameter	0.875 in
Shaft Extension	4.28 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	SS620858-182JM	Connection Drawing	EE7308

SS620858



182JM	12.09	16.34
184JM	13.11	17.37
FRAME	B1	B

						TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION			DRAWN WY 4-9-2017				
						DEC.	INCHES				CHK ZXW 4-9-2017				
						.X	±.1				APPD ZYH 4-9-2017				
						.XX	±.03				SCALE 1=4				
							.XXX	±.005	TITLE 182/184JM FR-ROLLED STEEL			REF			
A	RELEASED FOR PRODUCTION		ECD-0093138	WGJ 09-06-17	EMH	.XXXX	±.0005	MAT'L.				FMF Wuxi			
NO.	REVISION			BY & DATE	CHK	ANG	±1/2	FINISH					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			SS620858	SIZE	DRAWING NO.		REV.
					DIST							B	SS620858		A



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990				
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		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	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH	PREV				
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			DIST WP				A	EE7308			5



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: EE7308

CATALOG #: 199763.00

OUTLINE: SS620858

MOUNTING: F1 ONLY

WINDING #: CHT18220006 2

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.70&2.24	3600	3460&2915	182JM	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	12.4/6.2&9/4.5	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.0	40

FULL LOAD EFF:	87.5&88.5	3/4 LOAD EFF:	87.5	1/2 LOAD EFF:	86.5	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	88&83	3/4 LOAD PF:	84	1/2 LOAD PF:	74	85.5		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.6 LB-FT	76 / 38	17 LB-FT 224 %	22.5 LB-FT 296 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.2 LB-FT^2	10 LB-FT^2	10 SEC.	2	75 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6307	6205						

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

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INVERTER TORQUE: VARIABLE 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 NONE Hz

Data Sheet

Date: 1/31/2018

199763.00



Data @ 460 V

Motor Load Data

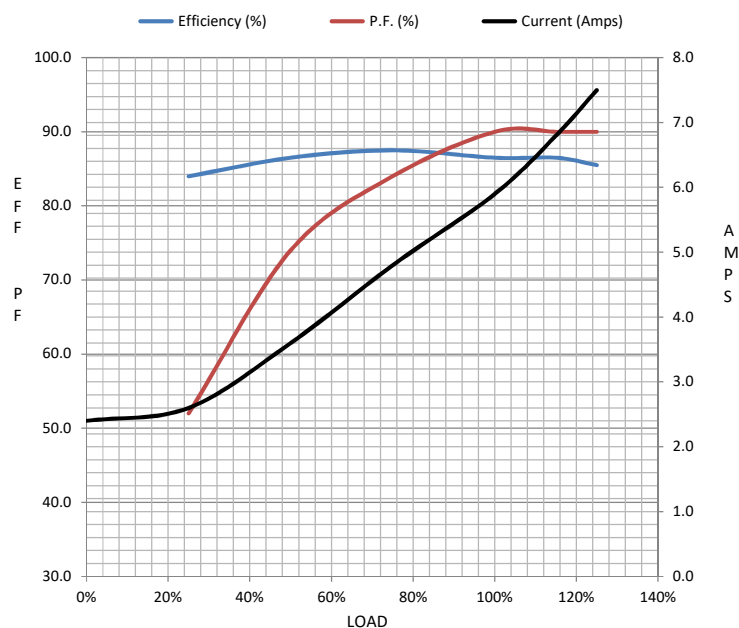
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.40	2.60	3.6	4.8	5.9	6.8	7.5	38.0	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.6	8.8	9.6	17.0	
RPM	3600	3570	3538	3502	3495	3,475	3450	0	
Efficiency (%)		84.0	86.5	87.5	86.5	86.5	85.5		
P.F. (%)	7.0	52.0	74.0	84.0	90.0	90.0	90.0	61.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2675	3495	3600
Current (Amps)	38.0	34.0	28.0	5.9	2.40
Torque (ft-lb)	17.0	15.0	22.5	7.6	0.00

Information Block

HP	5.0			
Sync. RPM	3600			
Frame	182			
Enclosure	DP			
Construction	TDB			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.20	Lb-Ft²		
Ref Wdg	CHT18220006 NONE			
Sound Pressure @ 1M	55	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620311			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.8140	1.3040	4.4510	1.9850	163.5800



Speed - Torque Curve

