

PRODUCT INFORMATION PACKET



Model No: 199589.00

Catalog No: 199589.00

Close-Coupled Pump Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
182JM Frame, DP



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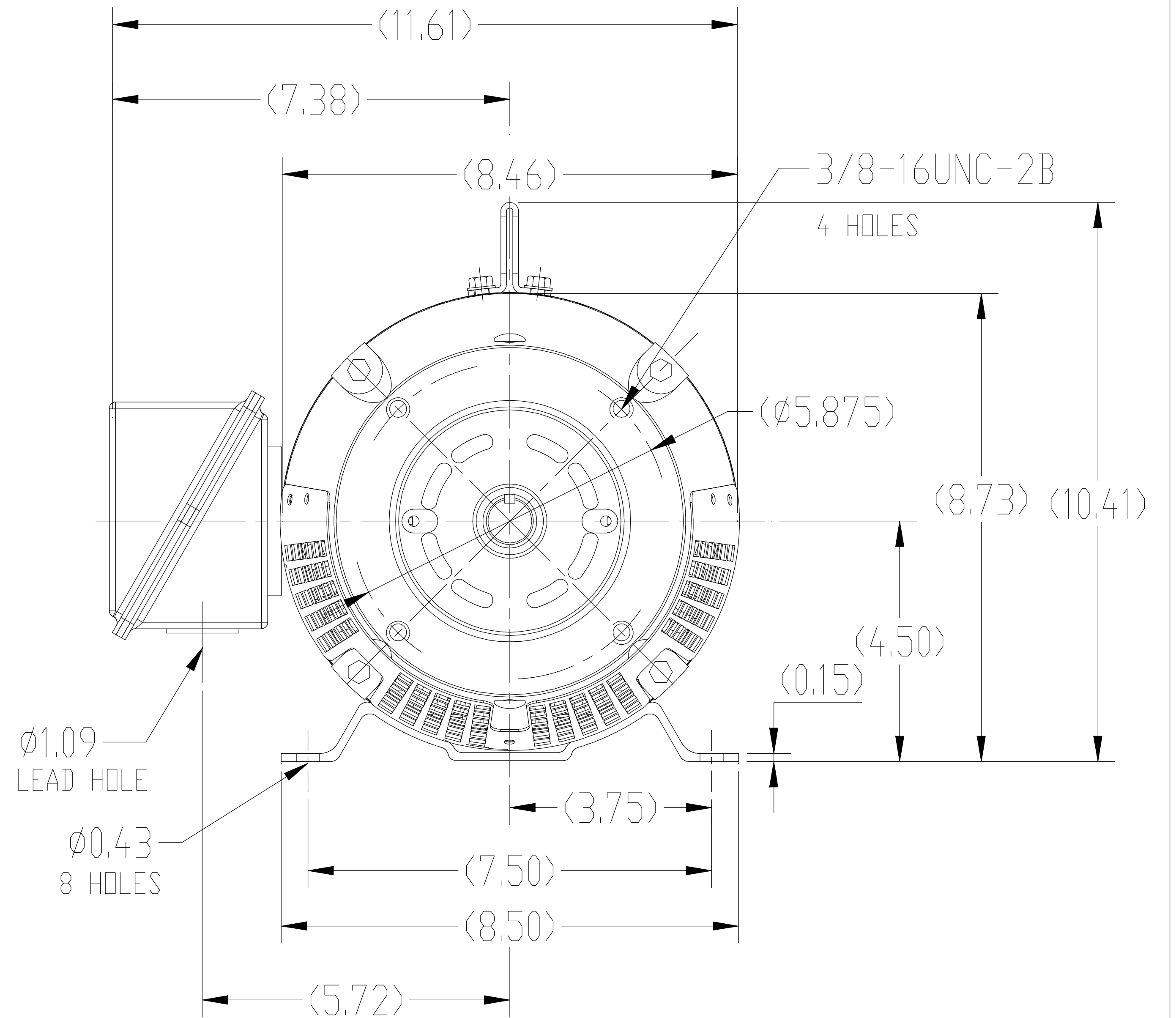
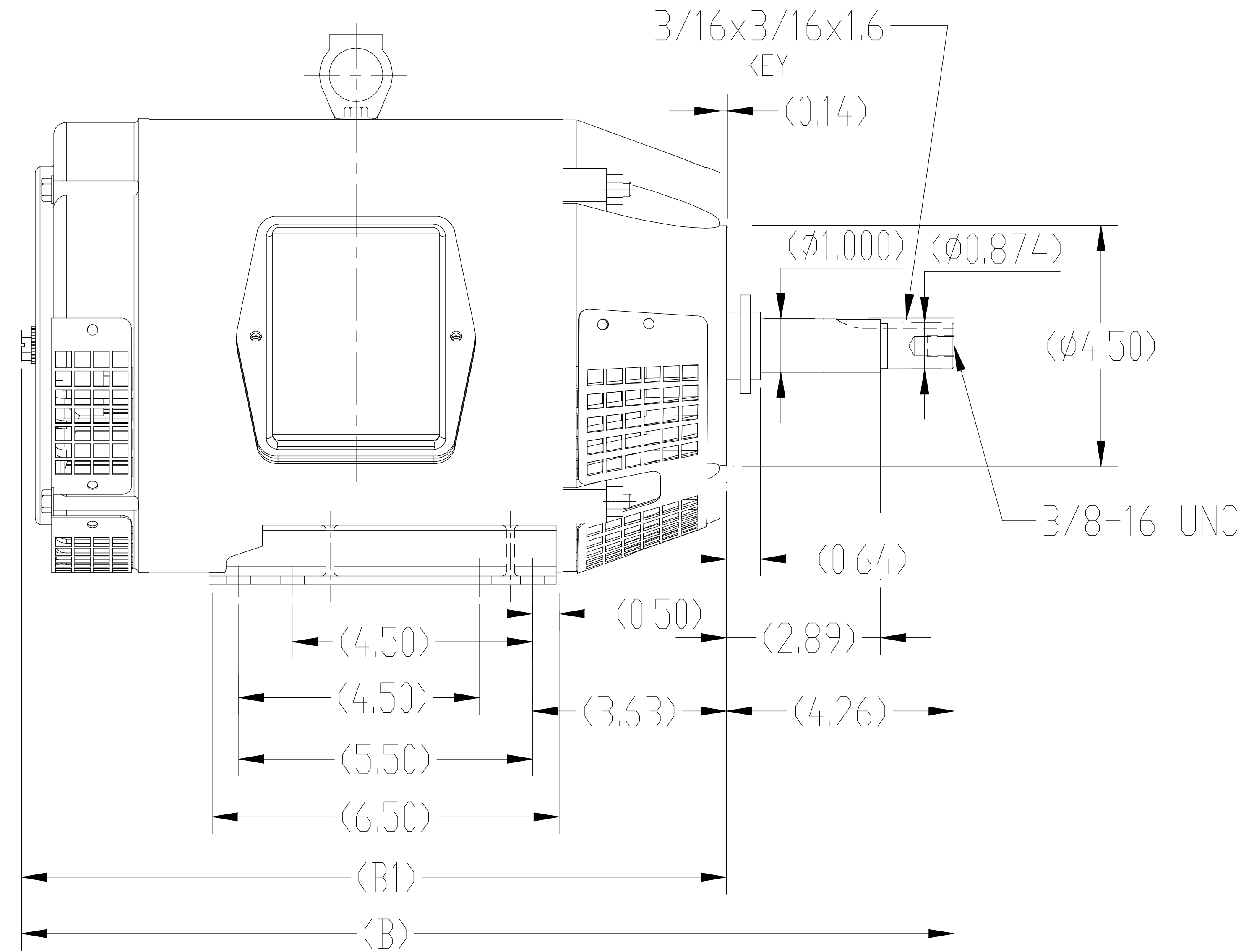
Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1467 rpm	Service Factor	1.15 & 1.0
Frame	182JM	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	90.2 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.6/3.8 & 6/3 A	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
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	4	Rotation	Reversible
Resistance Main	3.38 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	16.34 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 OUTLINE		REF
									182/184JM FR-ROLLED STEEL		
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



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				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		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		PREV	
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				DIST WP			A	EE7308 5



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

CATALOG #: 199589.00

CONN. DIAGRAM: EE7308

OUTLINE: SS620858

MOUNTING: F1 ONLY

WINDING #: CHT18240008 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1760&1467	182JM	DP	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	7.6/3.8&6/3	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.0	40

FULL LOAD EFF:	90.2&88.5	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	89.5	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	81.5&82	3/4 LOAD PF:	75.5	1/2 LOAD PF:	63.5	88.5		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	70 / 35	25 LB-FT 277 %	37 LB-FT 411 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
67 dBA	77 dBA	0.4 LB-FT^2	20 LB-FT^2	20 SEC.	2	80 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: 1/19/2018

199589.00



Data @ 460 V

Motor Load Data

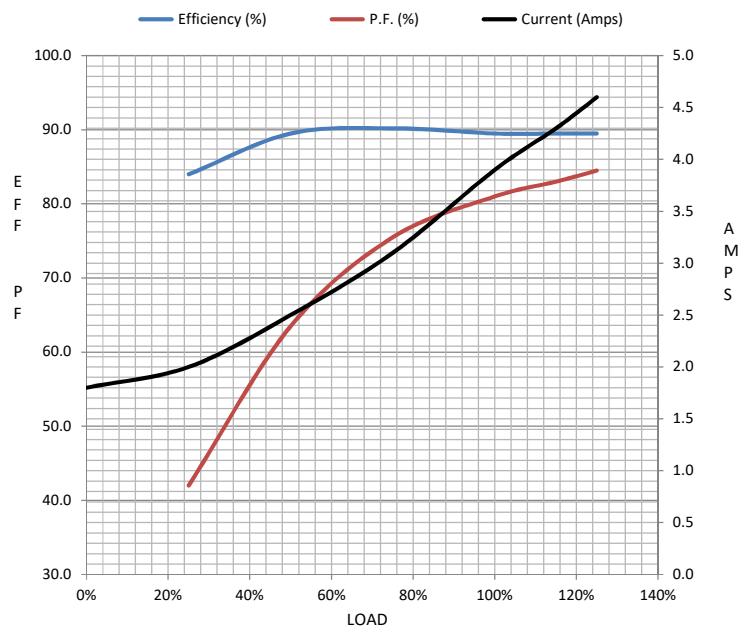
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.00	2.50	3.1	3.9	4.3	4.6	35.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.3	25.0	
RPM	1800	1790	1780	1770	1750	1,745	1740	0	
Efficiency (%)		84.0	89.5	90.2	89.5	89.5	89.5		
P.F. (%)	6.5	42.0	63.5	75.5	81.0	83.0	84.5	53.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1360	1750	1800
Current (Amps)	35.0	31.5	24.0	3.9	1.80
Torque (ft-lb)	25.0	22.5	37.0	9.0	0.00

Information Block

HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	DP			
Construction	TDB			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.40	Lb-Ft²		
Ref Wdg	CHT18240008 NONE			
Sound Pressure @ 1M	67	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS6203111			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.9870	2.1760	5.3920	5.3920	141.9000



Speed - Torque Curve

