

# PRODUCT INFORMATION PACKET



Model No: 199770.00

Catalog No: 199770.00

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



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### Nameplate Specifications

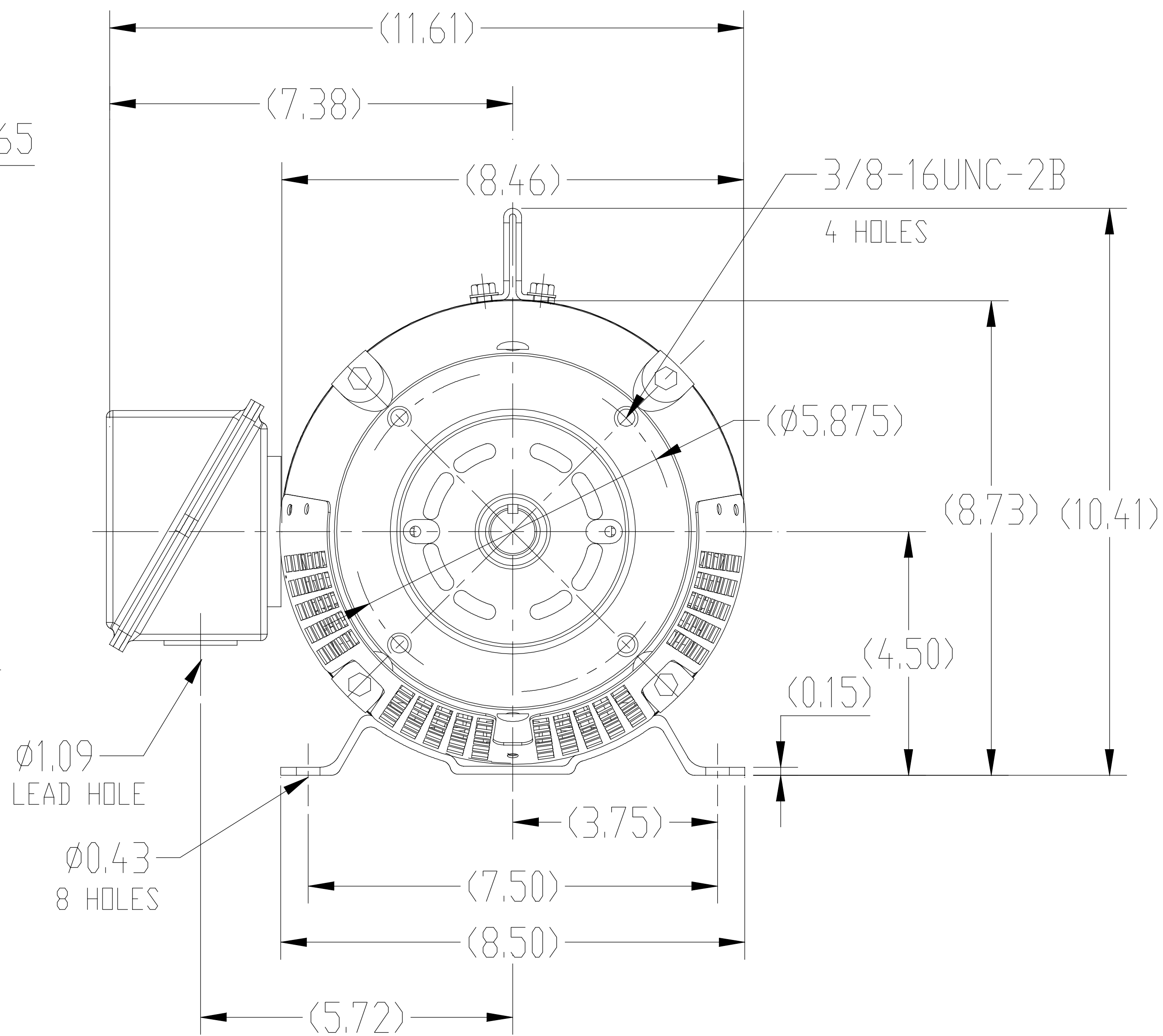
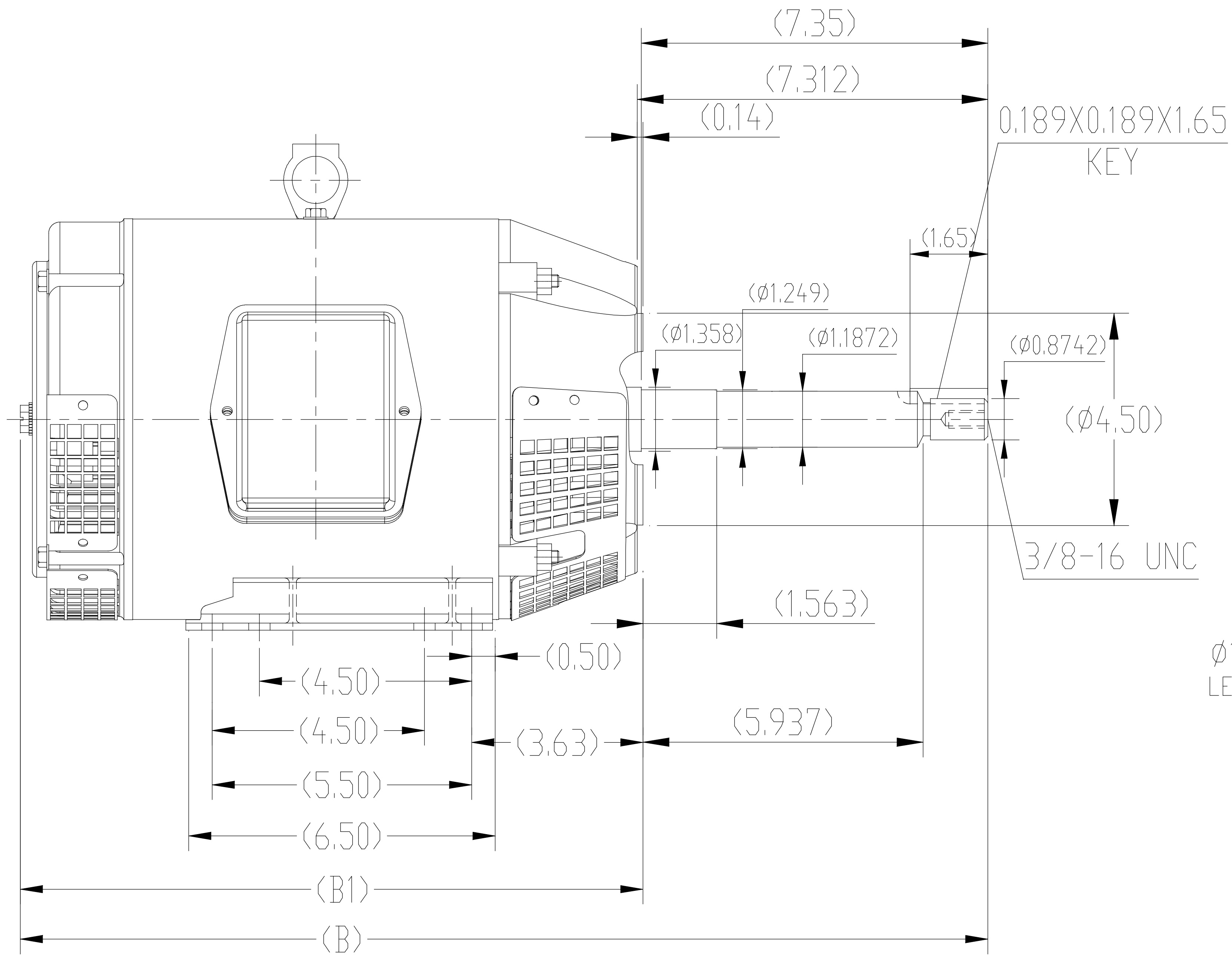
Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1467 rpm	Service Factor	1.15 & 1.15
Frame	182JP	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	90.2 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.6/3.8 & 6/3 A	Power Factor	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
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
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	JP
Overall Length	19.06 in	Frame Length	6.73 in
Shaft Diameter	0.875 in	Shaft Extension	7.34 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	EE7308_LE	Outline Drawing	SS620859-182JP

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SS620859



182JP	12.09	19.44
184JP	13.11	20.46
FRAME	B1	B

			TOLERANCES UNLESS SPECIFIED		 <b>REGAL-BELOIT CORPORATION</b>		DRAWN WY 5-9-2017	
			DEC.	INCHES			CHK ZXW 5-9-2017	
			.X	±.1			APPD ZYH 5-9-2017	
			.XX	±.03	TITLE		SCALE 1=4	
			.XXX	±.005	ODP-182/184JP 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	SS620859	SIZE	DRAWING NO.
				DIST			B	SS620859
								REV. A

THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE




T1 (U1)  
T4 (U2)  
T9 (W3)  
T7 (U3)  
T8 (V3)  
T6 (W2)  
T5 (V2)  
T2 (V1)  
T3 (W1)

VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G  
T6BZ, T2B, T6BL, T4AV, T6B, T4B

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN HLB 04-29-2002			
				DEC.	INCHES			CHK	ML	05-03-2002	
				.X	±.1			APPD	GK	05-03-2002	
				.XX	±.01	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR		SCALE 1=1			
2	ADDED IEC NOTATIONS... (U1), (V1) ETC. (MU105786)	REP 01-11-2012	DR	.XXX	±.005			REF			
1	NEW DRAWING	HLB 05-03-2002	ML	.XXXX	±.0005	MAT'L.		FMF			
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 EE7308-LE		SIZE	DRAWING NO.	PAGE OF	REV.
				DIST LB-WP				A	EE7308-LE		2



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

**CERTIFICATION DATA SHEET**

**CATALOG #:** 199770.00

**CONN. DIAGRAM:** EE7308\_LE

**OUTLINE:** SS620859

**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	182JP	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	1.15/1.15	40

<b>FULL LOAD EFF:</b>	90.2&88.5	<b>3/4 LOAD EFF:</b>	90.2	<b>1/2 LOAD EFF:</b>	89.5	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	81.5&82	<b>3/4 LOAD PF:</b>	75.5	<b>1/2 LOAD PF:</b>	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 - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	JP	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:** CONSTANT 4:1

**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: 1/29/2018

199770.00



Data @ 460 V

## Motor Load Data

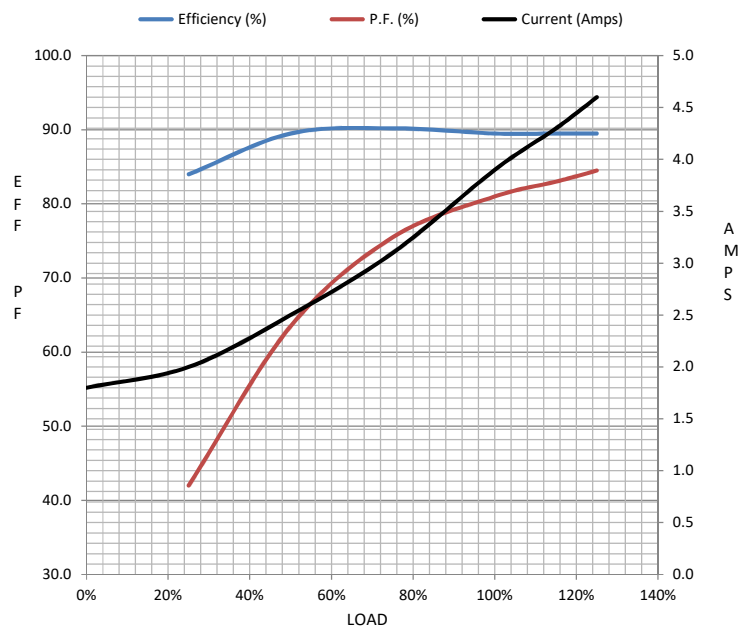
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.00	2.50	3.1	3.9	4.3	4.6	35.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.3	25.0	
RPM	1800	1790	1780	1770	1750	1,745	1740	0	
Efficiency (%)		84.0	89.5	90.2	89.5	89.5	89.5		
P.F. (%)	6.5	42.0	63.5	75.5	81.0	83.0	84.5	53.5	

## 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	CONSTANT 4:1			
Outline Dwg	SS620562			
Conn. Diag	EE7308_LE			
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

