

# PRODUCT INFORMATION PACKET



Model No: CZ145T17WK59A

Catalog No: 122211.00

122211.00..2HP..1745RPM.145JM.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID C  
FACE.CZ145T17WK59.....STAINLESS JM PUMP.NONE.....

JM Pump



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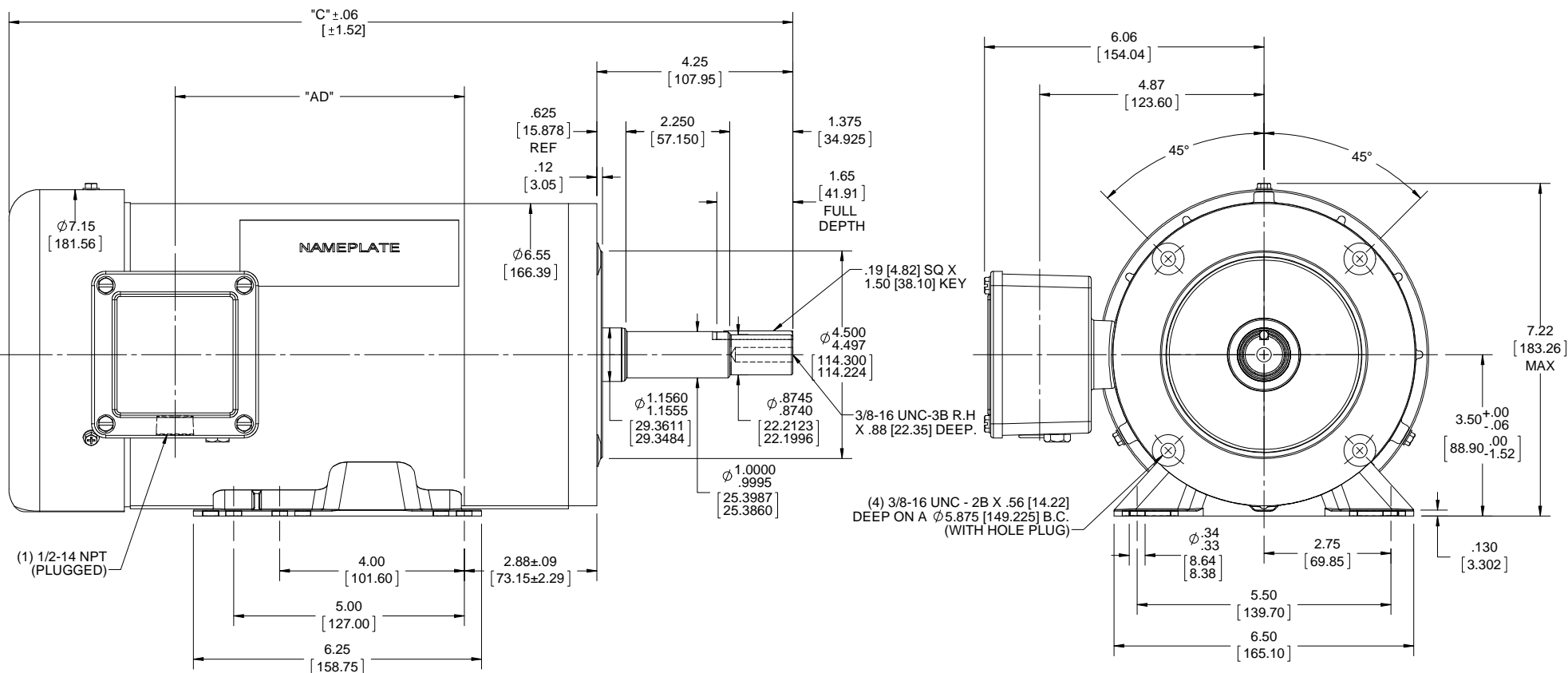


**Nameplate Specifications**

Output HP	<b>2 Hp</b>	Output KW	<b>1.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>208-230/460 V</b>
Current	<b>6.0-5.8/2.9 A</b>	Speed	<b>1745 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>86.5 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>L</b>	Frame	<b>145JM</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6206</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>56</b>		

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Stainless Steel</b>	Shaft Type	<b>JM</b>
Overall Length	<b>17.00 in</b>	Frame Length	<b>9.50 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>4.21 in</b>
Assembly/Box Mounting	<b>F1 ONLY</b>		
Outline Drawing	<b>028620-950</b>	Connection Diagram	<b>005010.01</b>



NOTE:-

- 1) VITON CONDUIT BOX & COVER GASKETS.
- 2) VITON O-RING IN END BELL RABBETS & UNDER BOLT HEADS.
- 3) VITON SHAFT SEAL.
- 4) BREATHER PLUG IN CONDUIT BOX & L/E ENDBELL.
- 5) ALL STAINLESS STEEL CONSTRUCTION .

MAXIMUM FACE RUNOUT TO BE .004 [.102] T.I.R.  
 MAXIMUM PILOT ECCENTRICITY .004 [.102] T.I.R.  
 PERMISSIBLE SHAFT RUNOUT .002 [.050] T.I.R.

DASH NO.	"C"	"AD"
850	16.00 [406.40]	5.27 [133.85]
900	16.50 [419.10]	5.77 [146.55]
950	17.00 [431.80]	6.27 [159.25]

DRAWING REVISION G	REVISION BY A.SUPPANAVAR	DATE 01/08/2018
ECO ECO-0143018	APPROVED BY PK	DATE 04/10/2018
ECO DESCRIPTION OUTLINE CONVERSION PROJECT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°			
CORNER FILLETS: R.02 [.51]			
MACHINED SURFACES: 125/3.2			
mm SHOWN IN [BRACKETS]			

DRAWN BY RDW	DATE 8/3/04
APPROVED BY SW	DATE 8/3/04
REFERENCE 028620	THIRD ANGLE PROJECTION

**REGAL™** Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
140JM FRAME TEFC - RIGID "C"

MATERIAL  
STAINLESS STEEL DUCK JM PUMP

PROCESS/FINISH

SIZE  
DRAWING NUMBER  
**028620**

SHEET  
1 OF 1

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		<b>REGAL</b> ™ <b>Regal Beloit America, Inc.</b>		DRAWN RDW 04/12/02		
				DEC.	INCHES			CHK		
				.X	±.1	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		APPD		
				.XX	±.01			SCALE 1=1		
				.XXX	±.005			REF FIG.2-51		
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY .XXXX ±.0005	MAT'L	DECAL - 004014			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	04/12/02	CAD FILE	00501001	SIZE A	DRAWING NO. 005010-01	REV. A
				DIST	BRF-NLV					



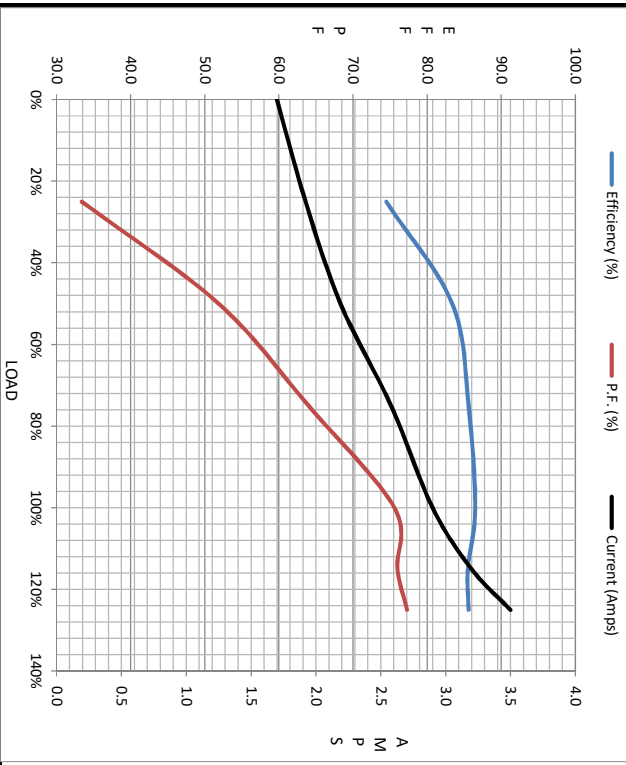
		Motor Load Data							
Load		0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)		1.70	1.92	2.19	2.58	2.90	3.2	3.5	26.5
Torque (ft-lb)		0.00	1.50	3.0	4.5	6.0	6.5	7.5	18.8
RPM		1800	1787	1774	1763	1751	1,730	1732	0
Efficiency (%)			74.5	83.4	85.6	88.5	85.5	85.6	
P.F. (%)			33.4	51.9	64.0	75.6	76.0	77.3	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	775	1085	1751	1800
Current (Amps)	26.5	24.4	14.2	2.90	1.70
Torque (ft-lb)	18.8	15.0	24.6	6.0	0.00

Information Block

HP	2.0			
Sync. RPM	1800			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	53 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.16 Lb-Ft²			
Ref Wdg	T634340 FR			
Sound Pressure @ 1M	65 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	028620-950			
Conn. Diag	005010.01			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

