

# PRODUCT INFORMATION PACKET



Model No: C145T17WC39A

Catalog No: 191568.00

..1 1/2HP..1800.145TC.TEFC.230/460V.3PH.60HZ.CONT.40C..C-FACE.....

Paint Free



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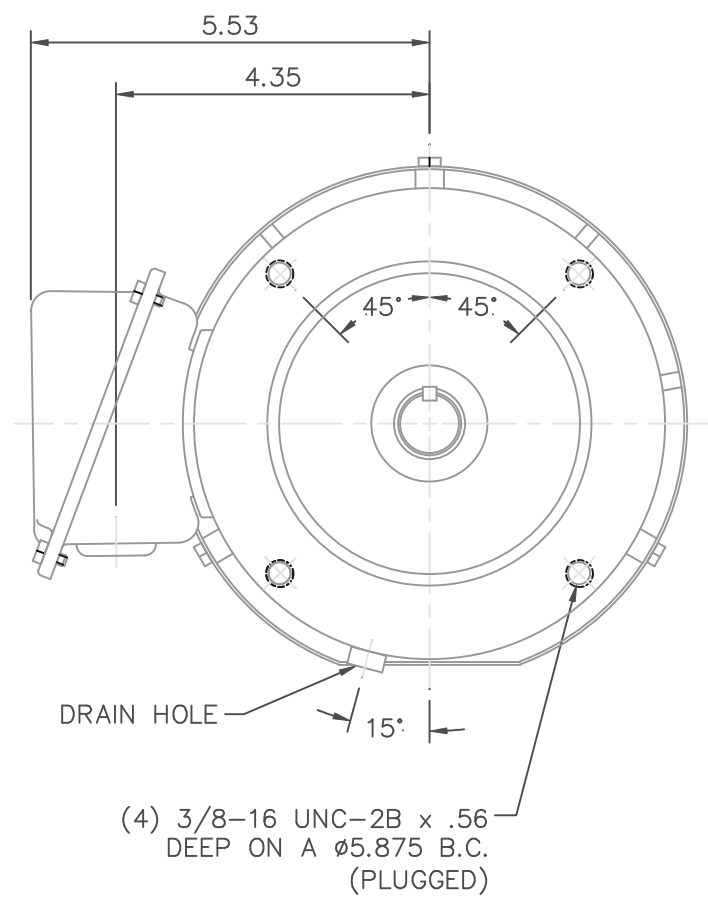
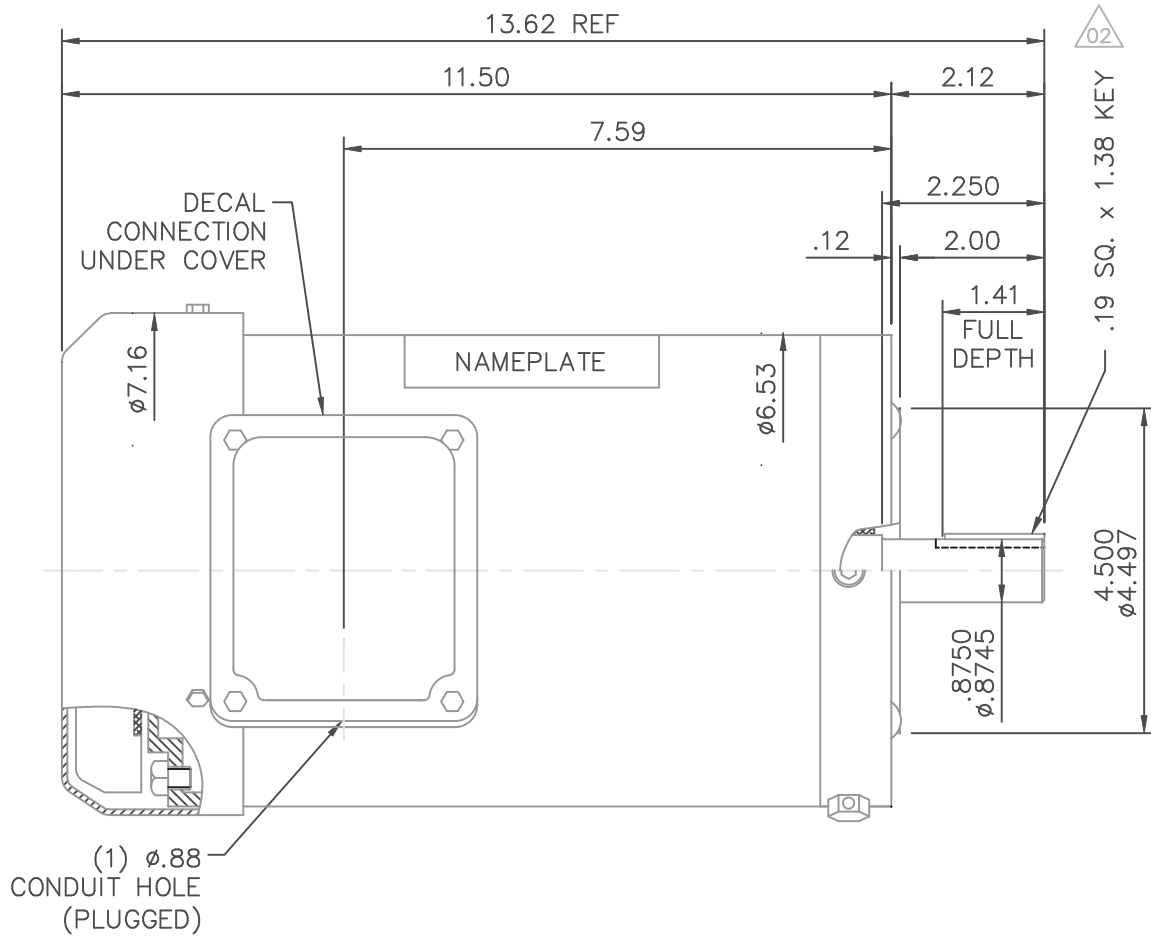


### Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	4.8-4.4/2.2 A	Speed	1750 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	M	Frame	145TC
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6205	UL	Recognized
CSA	Y	CE	Y
IP Code	55		


### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Stainless Steel	Shaft Type	T
Overall Length	13.62 in	Frame Length	7.99 in
Shaft Diameter	0.875 in	Shaft Extension	2.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16992700	Connection Diagram	005010.01



MAXIMUM FACE RUNOUT TO BE .004 T.I.R.  
 MAXIMUM PILOT ECCENTRICITY .004 T.I.R.  
 PERMISSIBLE SHAFT RUNOUT .002 T.I.R.

GASKETS THROUGHOUT

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MGM 04/09/03	
				DEC.	INCHES		CHK RDW 04/09/03	
				.X	±.1		APPD	
				.XX	±.03	TITLE		
				.XXX	±.005	OUTLINE - 143-145TC FRAME		
				.XXXX	±.0005	TEFC - "C" FACE		
02	UPDATED SHAFT EXT DIMS	RDW 4/26/04	SW	.XXX	±.005	SCALE 3=8		
01	CONDUIT HOLE WAS 1/2-14 NPT, DIM .157 WAS .12	SW 10/7/2003	RDW	.XXXX	±.0005	REF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FMF		
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		DRAWING NO.		
				DIST		169927.00		
						SIZE	REV.	
						A	01	

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			APPD				
				.XX	±.01			SCALE 1=1				
				.XXX	±.005	TITLE		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	DRAWING NO.	REV.
				DIST	BRF-NLV			A	005010-01		A	



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01  
OUTLINE: 16992700  
WINDING: QTS9421

CAT #: 191568.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN			
1.5	1.1	1800	1745	145TC	TEFC	NA	M	B			
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.		
3	60/50	208-230/460#190/380	4.8-4.4/2.283-8/1.9	LINE OR INVERTER	CONT	F	1.15	40	3300		
F.L. EFF	84.6	3/4 LD EFF	84.1	1/2 LD EFF	79.5	GTD EFF	0.0	ELECT. TYPE			
F.L. PF	75.5	3/4 LD PF	66.3	1/2 LD PF	54.4	SQ CAGE INVERTED					
F.L. TORQUE	LR AMPS @ 460 V	19.9	18.1	LB-FT	402%	21.1	LB-FT	F.L. RISE (°C)			
PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT					
999	DBA	1008	DBA	-1.00	LB-FT²	0	LB-FT²	10	SEC.	0	LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	NO PAINT
BEARINGS DE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
BALL BALL 6205	POLYREX EM 6205	T	NONE	NONE	303 STAINLESS (C-501)	STAINLESS STEEL		

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT ODE
0	0	0	0	0	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: NONE		NONE PPR
BRAKE: NONE		NONE
FT-LB: NONE		NA
VOLTAGE: NONE		NONE
UL: Y		HZ:

DATE: 1/31/2018
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Motor Load Data						LR	
Load	0%	25%	50%	75%	100%	115%	125%
Current (Amps)	1.30	1.40	1.60	1.90	2.20	2.48	2.60
Torque (ft-lb)	0.00	1.11	2.19	3.4	4.5	5.2	5.7
RPM	1800	1785	1773	1759	1745	1735	1730
Efficiency (%)		70.5	79.5	84.1	84.6	83.8	84.6
P.F. (%)	10.2	35.7	54.4	66.3	75.5	77.9	80.1

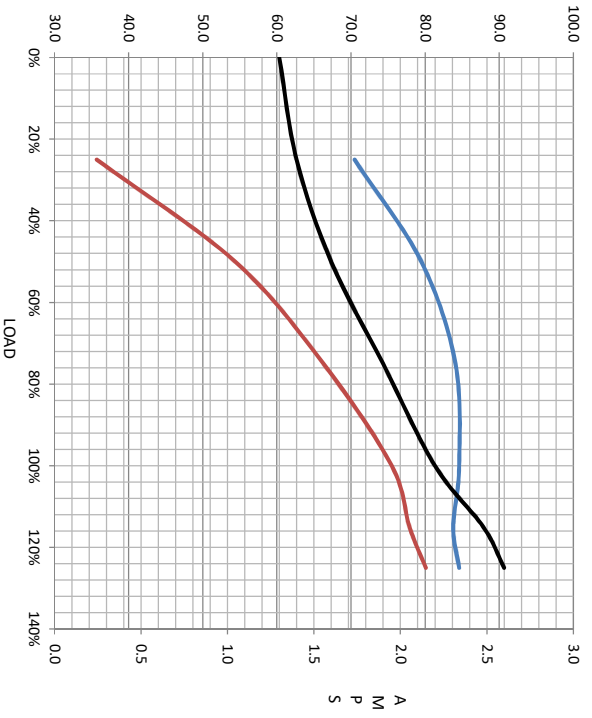
Motor Speed Data

Motor Speed Data						Information Block	
Speed (RPM)	LR	Pull-Up	BD	Rated	Idle	HP	Sync. RPM
Speed (RPM)	0	257	1286	1745	1800	1.5	1800
Current (Amps)	19.9	19.4	12.5	2.20	1.30	140	TEFC
Torque (ft-lb)	18.1	15.3	21.1	4.5	0.00	Construction	NA

Efficiency (%)	—
P.F. (%)	—
Current (Amps)	—

Voltage	208-230/460#190/380	V
Frequency	60	Hz
Design	A	
LR Code letter	M	
Service Factor	1.15	
Temp Rise @ FL	53	°C
Duty	CONT	
Ambient	40	°C
Elevation	1,000	feet
Rotor/Shaft wk <sup>2</sup>	-1.00	Lb-Ft <sup>2</sup>
Ref Wdg	QT63421	FR
Sound Pressure @ 1M	999	dB(A)
VFD Rating	CONSTANT 20:1	
Outline Dwg	16992700	
Conn. Diag	005010.01	
Additional Specifications:		
0		
EQUIV CKT (OHMS / PHASE)		
R1	R2	X1
0.0000	0.0000	0.0000
X2	Xm	
0.0000	0.0000	



Speed - Torque Curve

