

# PRODUCT INFORMATION PACKET



Model No: 194187.00

Catalog No: 194187.00

Other Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 405T Frame, TEFC



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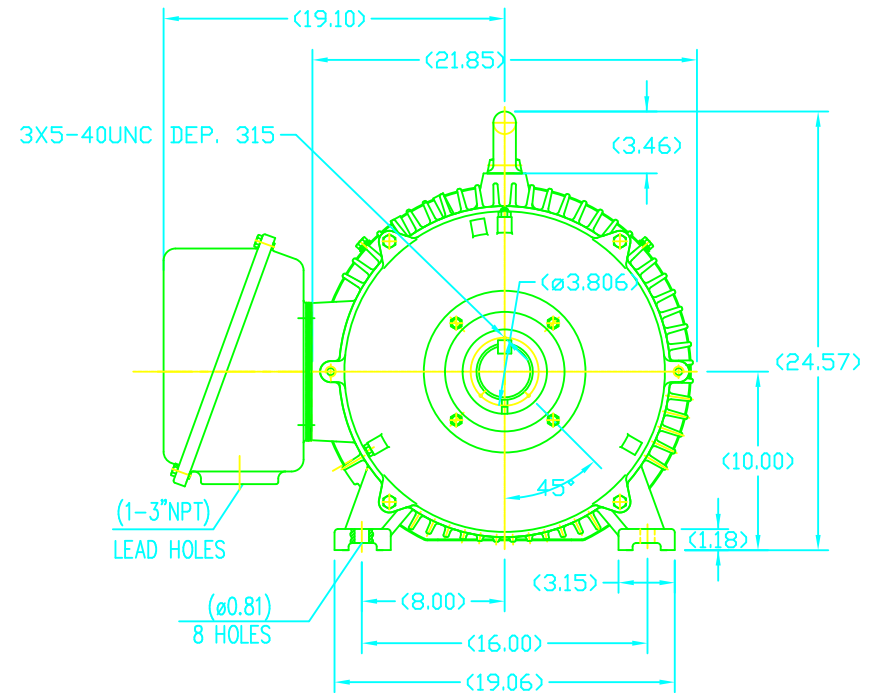
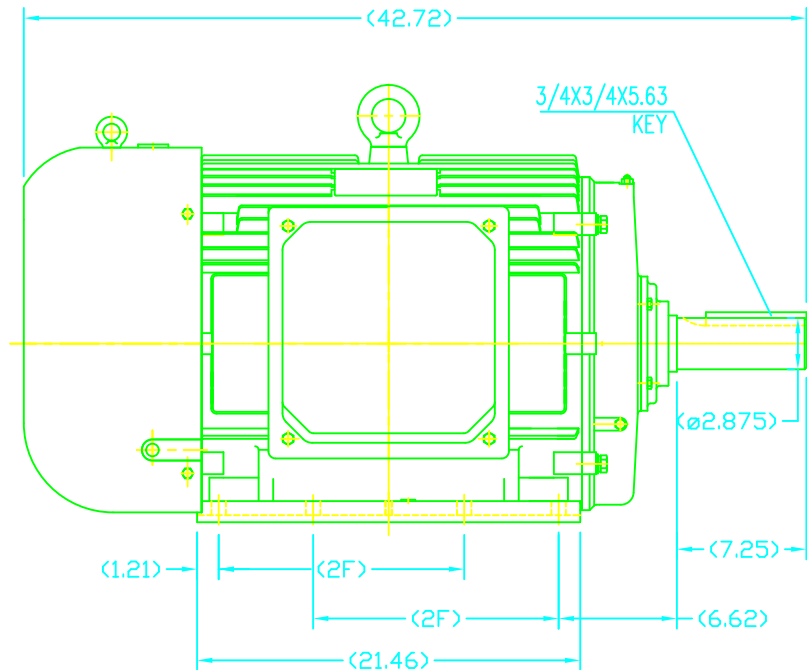
## Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	115 & 105 A	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	C	KVA Code	G
Drive End Bearing Size	NU316	Opp Drive End Bearing Size	6315
UL	Recognized	CSA	Y
CE	N	IP Code	55
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.042 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	42.72 in
Frame Length	21.65 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300CB-LE	Outline Drawing	SS620676-405T

SS620676



404T	12.25
405T	13.75
FRAME	2F

TOLERANCES UNLESS SPECIFIED				DRAWN ZYH 12-02-2014	
DEC.	INCHES			CHK	HZJ 12-02-2014
X	±.1			APPD	CL 12-02-2014
XX	±.03			SCALE	
XXX	±.005			REF	
A	RELEASED FOR PRODUCTION	ECD-0074303	WGJ 5/12/15	AB	XXXX ±.0005
NO.	REVISION	BY & DATE	CHK	ANG	±1/2
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				DIST	
				SIZE	DRAWING NO.
				B	SS620676
				REV.	A



REGAL-BELOIT CORPORATION

TITLE  
OUTLINE 404/405T FR-TEFC  
CAST IRON severe duty

T12 \_\_\_\_\_  
 T1 \_\_\_\_\_  
 T6 \_\_\_\_\_  
 T7 \_\_\_\_\_

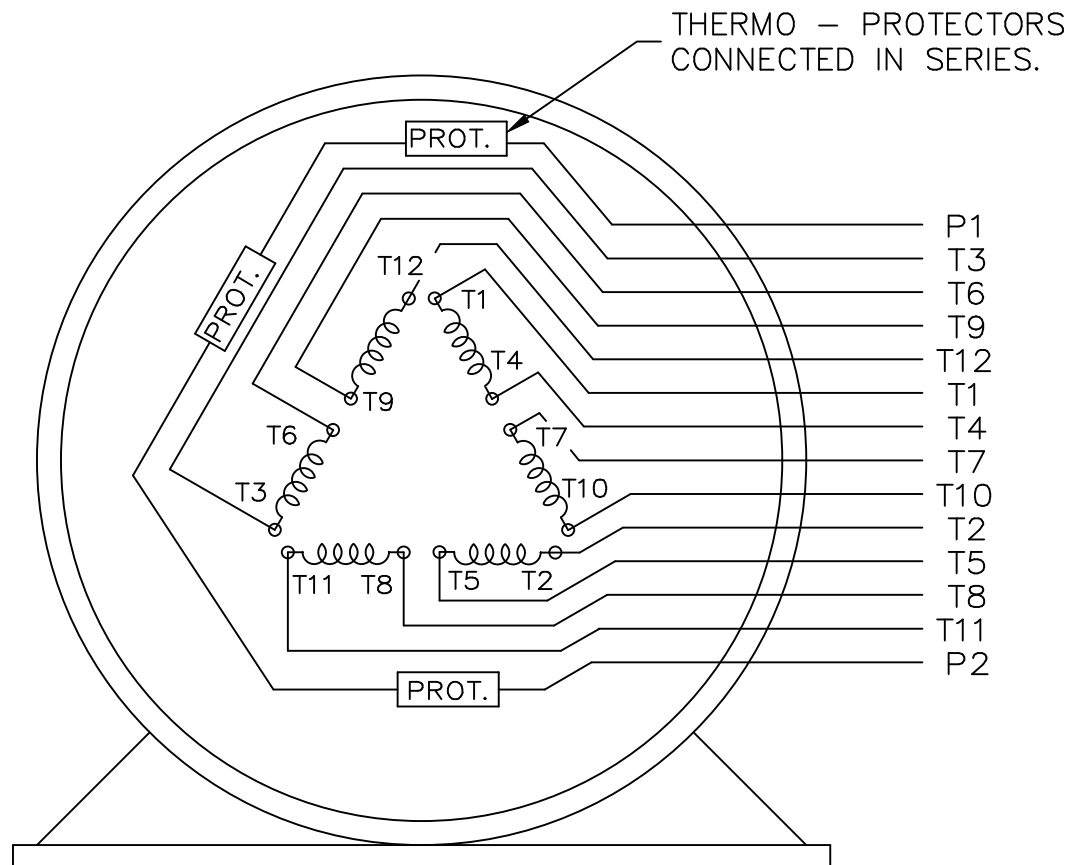
LINE 1

T2 \_\_\_\_\_  
 T4 \_\_\_\_\_  
 T8 \_\_\_\_\_  
 T10 \_\_\_\_\_


LINE 2

T3 \_\_\_\_\_  
 T5 \_\_\_\_\_  
 T9 \_\_\_\_\_  
 T11 \_\_\_\_\_

LINE 3



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN KL 02-27-2003					
				DEC.	INCHES		CHK	GFH	03-03-2003			
				.X	± -		APPD	JES	03-03-2003			
				.XX	± -		SCALE 1=1					
				.XXX	± -		REF					
1	NEW DRAWING	MU45634	KL 03-03-2003	.XXXX	± -	TITLE CONNECTION DIAGRAM — EXTERNAL 12 LEAD SINGLE VOLTAGE			FMF			
NO.	REVISION		BY & DATE	CHK	ANG	± -	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 EE7300CB-LE			SIZE	DRAWING NO.	PAGE OF	REV.
				DIST WA-LE-SB					A	EE7300CB-LE		1

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OFFENDING COMMAND: Pscript\_WinNT\_Co  
STACK:



CERTIFICATION DATA SHEET

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

CATALOG #: 194187.00

CONN. DIAGRAM: A-EE7300CB-LE

OUTLINE: SS620676

MOUNTING: F1/F2 CAPABLE

WINDING #: CHT40540008 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75.0&56.0	1800	1785&1485	405T	TEFC	G	C

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	115&105	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95&95	3/4 LOAD EFF:	95	1/2 LOAD EFF:	94.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	85&85.5	3/4 LOAD PF:	82	1/2 LOAD PF:	75	94.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	725	750 LB-FT 255 %	775 LB-FT 262 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	35 LB-FT^2	550 LB-FT^2	25 SEC.	2	1625 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
ROLLER	BALL						
NU316	6315	POLYREX EM	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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\*

INVERTER TORQUE: CONSTANT 20:1
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: 1/23/2018

194187.00



Data @ 460 V

## Motor Load Data

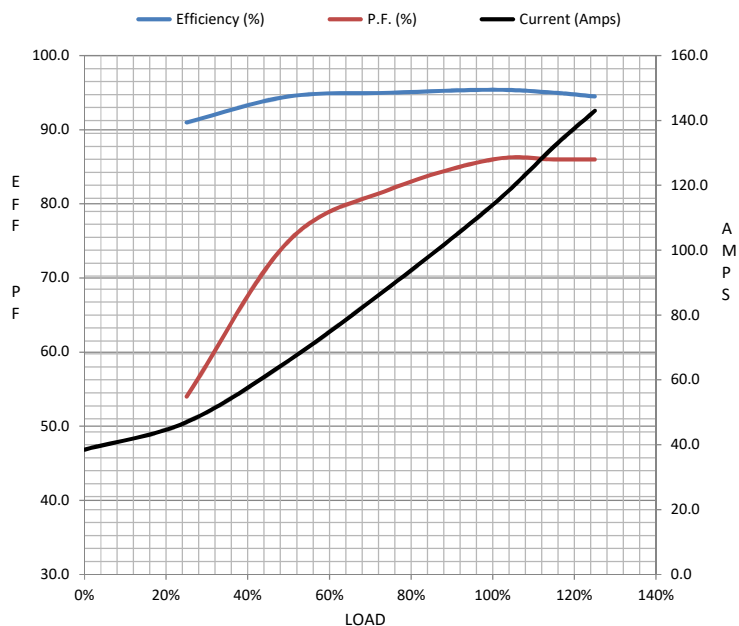
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	38.5	47.0	66.0	89.0	114	132	143	725	
Torque (ft-lb)	0.00	73.0	147	220	294	341	370	750	
RPM	1800	1796	1792	1790	1785	1782	1780	0	
Efficiency (%)		91.0	94.5	95.0	95.4	95.0	94.5		
P.F. (%)	4.5	54.0	75.0	82.0	86.0	86.0	86.0	40.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	725	650	400	114	38.5
Torque (ft-lb)	750	650	775	294	0.00

## Information Block

HP	100.0			
Sync. RPM	1800			
Frame	405			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	35.0 Lb-Ft²			
Ref Wdg	CHT40540008 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	SS620676			
Conn. Diag	A-EE7300CB-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0210	0.1760	0.3520	6.0350



## Speed - Torque Curve

