

PRODUCT INFORMATION PACKET



Model No: 199082.00
Catalog No: 199082.00
Ultimate e™ General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
182TC Frame, TEFC



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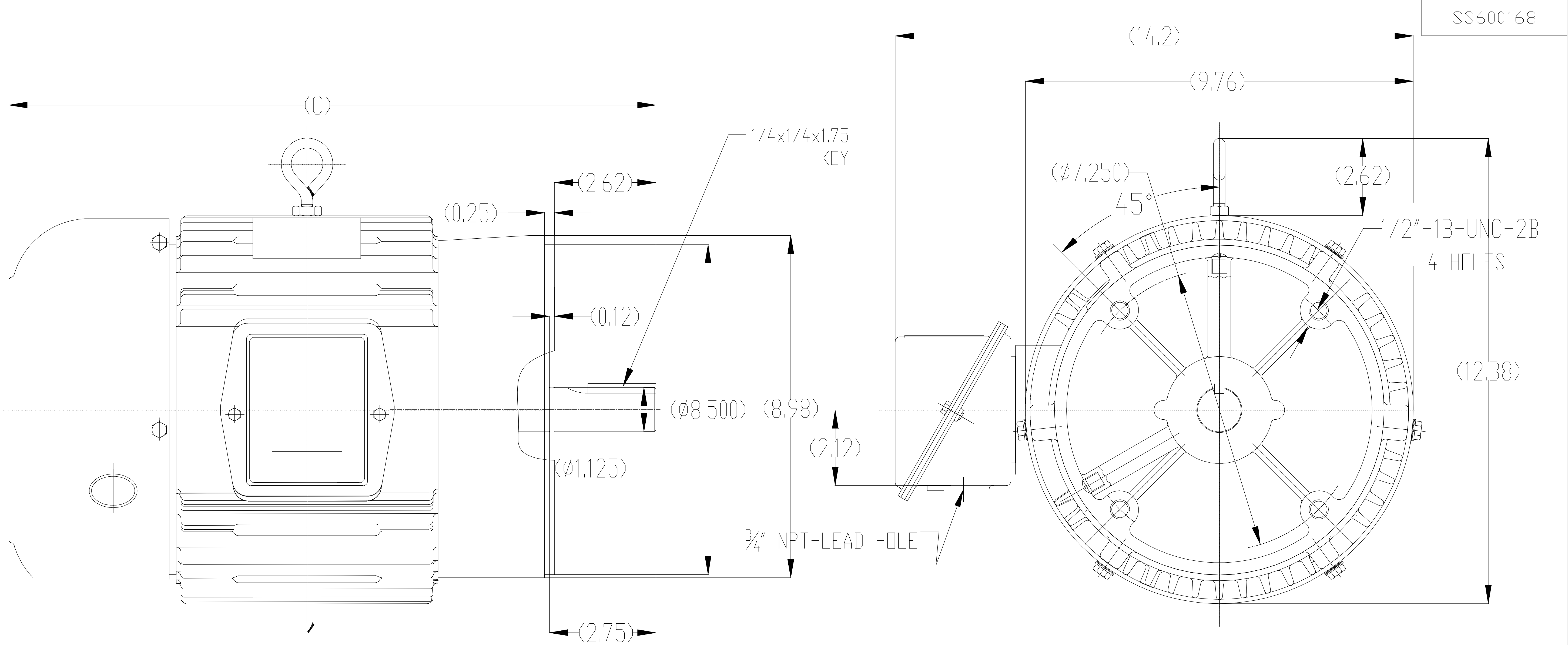


Nameplate Specifications


Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	3535 & 2945 rpm	Service Factor	1.15 & 1.15
Frame	182TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.5 & 84 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.6/3.8 & 6.4/3.2 A	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	L
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	3.45 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	15.75 in
Frame Length	5.74 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 10:1		
Outline Drawing	SS600168-182T	Connection Drawing	A-EE7308-LE

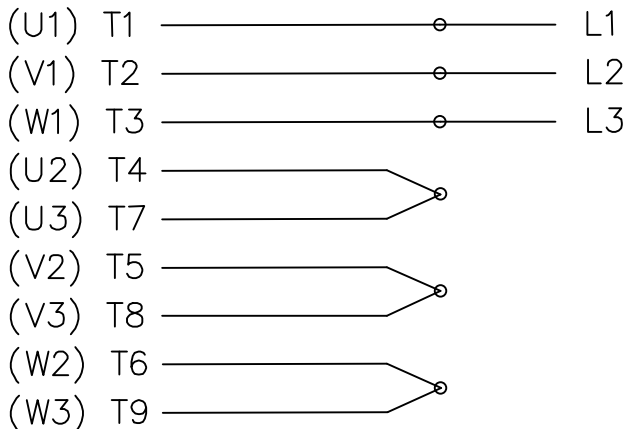


182T	16.93
184T	17.72
FRAME	C

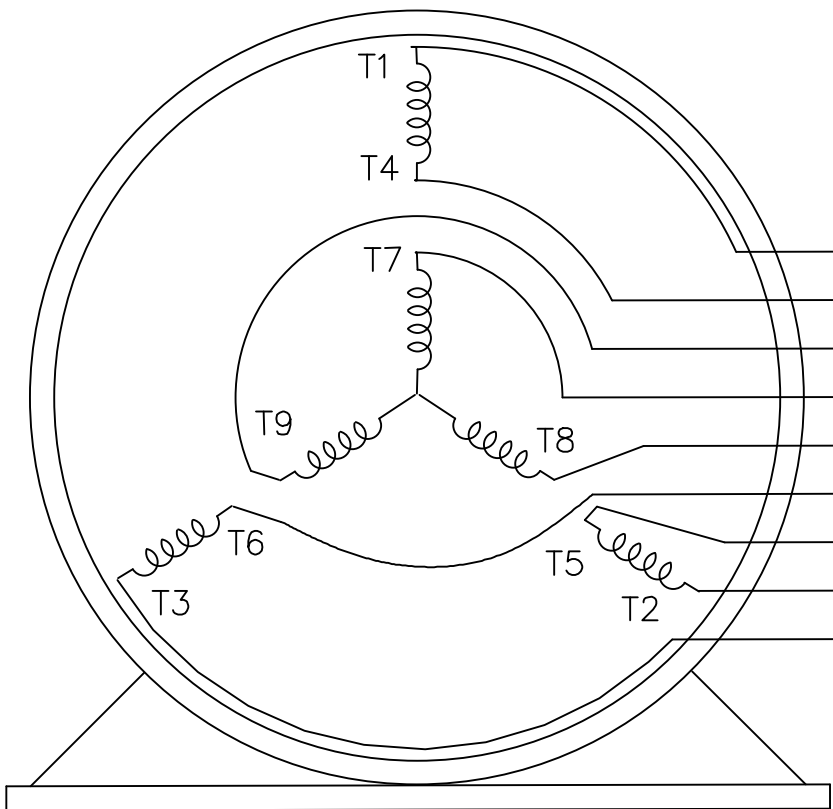
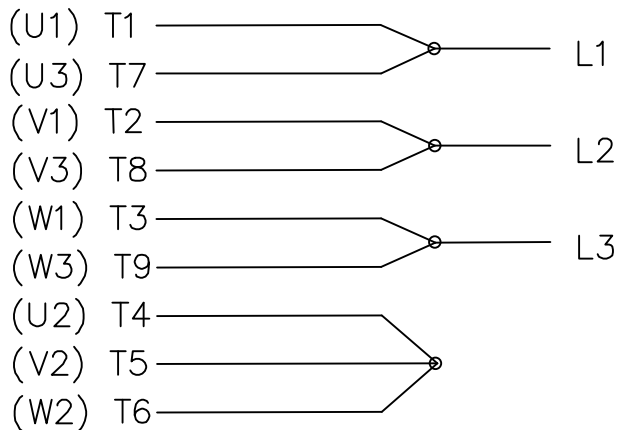
				TOLERANCES UNLESS SPECIFIED		<div> REGAL-BELOIT CORPORATION</div>		DRAWN WY 16-05-2018				
				DEC.	INCHES			CHK				
				.X	±.1			APPD				
				.XX	±.03			SCALE 1=2.5				
B	REMOVE ONE EYEBOLT ECD-0145257	WY 5-16-18	ZXW	.XXX	±.005	TITLE OUTLINE			182/184TC Round body TEFC-CAST IRON			REF
A	RELEASED FOR PRODUCTION ECD-0141538	WGJ 3-14-18	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 SS600168			SIZE	DRAWING NO.		REV.
			DIST						B	SS600168		

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			
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				DIST	LB-WP		A	EE7308-LE		2



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

CATALOG #: 199082.00

CONN. DIAGRAM: A-EE7308-LE

OUTLINE: B-SS600168

MOUNTING: F1/F2 CAPABLE

WINDING #: CHT18220001 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	3600	3535&2945	182TC	TEFC	L	A

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	7.6/3.8&6.4/3.2	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	86.5&84	3/4 LOAD EFF:	86.5	1/2 LOAD EFF:	85.5	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	85&85	3/4 LOAD PF:	79	1/2 LOAD PF:	68.5	85.5		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	76 / 38	13.5 LB-FT 300 %	22.5 LB-FT 500 %	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.2 LB-FT^2	34 LB-FT^2	25 SEC.	2	75 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6206	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 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

199082.00



Data @ 460 V

Motor Load Data

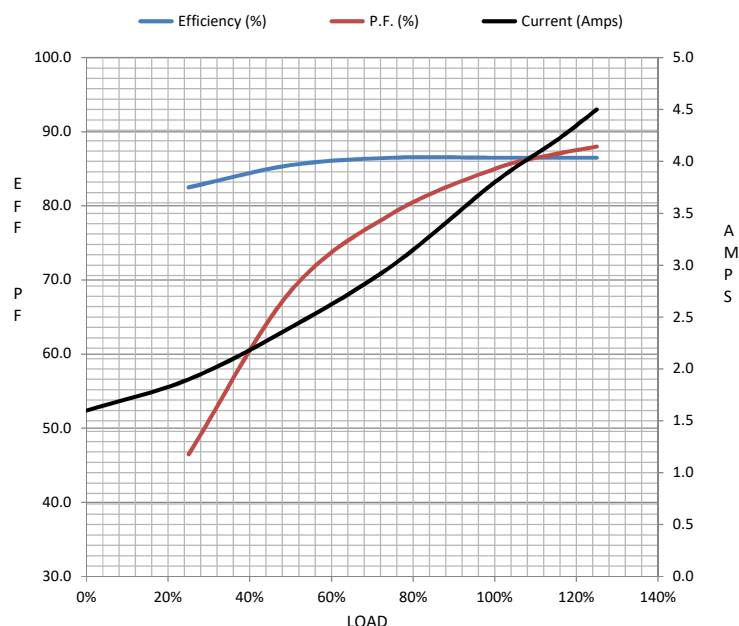
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.60	1.90	2.40	3.0	3.8	4.2	4.5	38.0	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	13.5	
RPM	3600	3585	3570	3555	3535	3,525	3520	0	
Efficiency (%)		82.5	85.5	86.5	86.5	86.5	86.5		
P.F. (%)	8.0	46.5	68.5	79.0	85.0	87.0	88.0	49.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2850	3535	3600
Current (Amps)	38.0	30.0	24.5	3.8	1.60
Torque (ft-lb)	13.5	10.0	22.5	4.5	0.00

Information Block

HP	3.0			
Sync. RPM	3600			
Frame	182			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380		V	
Frequency	60		Hz	
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	25		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.20		Lb-Ft²	
Ref Wdg	CHT18220001 NONE			
Sound Pressure @ 1M	72		dBA	
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS600168			
Conn. Diag	A-EE7308-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.0810	1.4660	4.7300	2.1290	174.5370



Speed - Torque Curve

