

PRODUCT INFORMATION PACKET



Model No: 824586.00
Catalog No: 824586.00
30 HP Definite Purpose HVAC HVAC/R Motor, 3 phase, 1200 RPM, 460 V, 326T Frame, TEAO
Definite Purpose Motors



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Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	460 V
Current	38.5 A	Speed	1182 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	79
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	326T	Enclosure	Totally Enclosed Air Over
Thermal Protection	No	Ambient Temperature	90 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

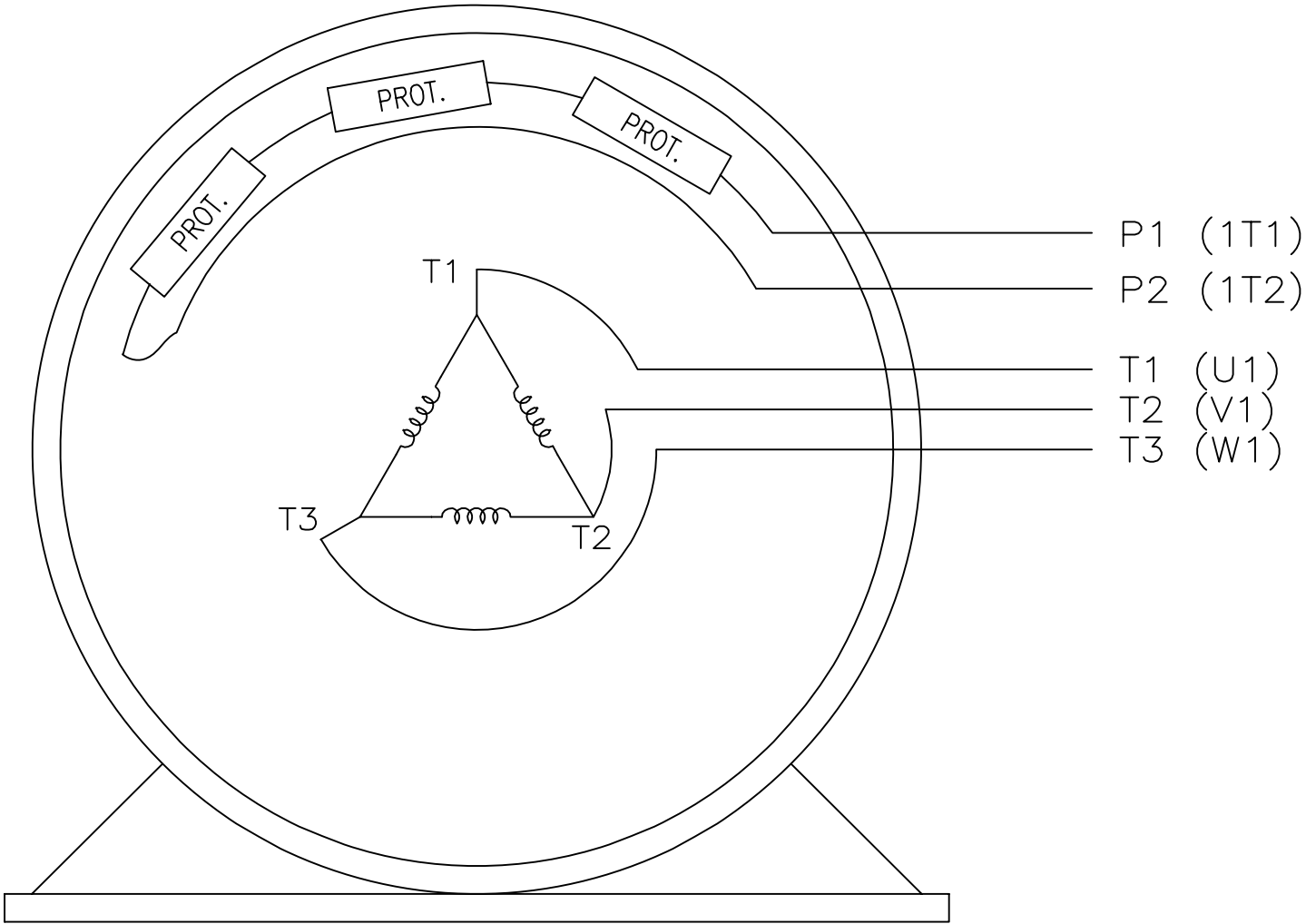
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.21 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball / Heat Stabilized
Opp Drive End Bearing	Ball / Heat Stabilized	Frame Material	Cast Iron
Shaft Type	T	Overall Length	27.77 in
Frame Length	13.00 in	Shaft Diameter	2.125 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 20:1		
Connection Drawing	A-EE7300S	Outline Drawing	B-SS301011-1300

EE7300S

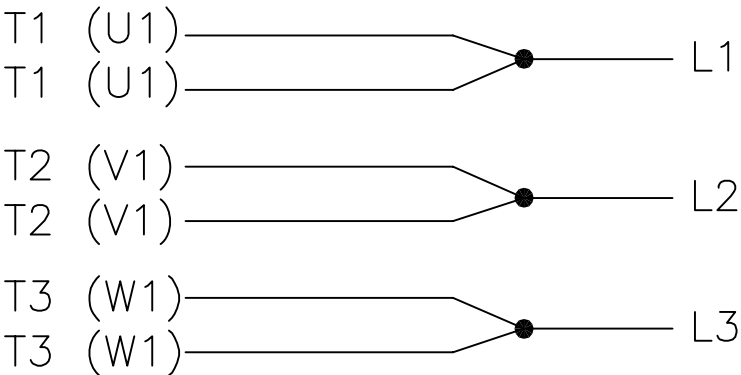
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



P1 (1T1)
P2 (1T2)
T1 (U1)
T2 (V1)
T3 (W1)

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN KL 12-15-1999			
				DEC.	INCHES		CHK DJK 12-15-1999			
F	UPDATED TITLE BLOCK	HV 02-27-2014	EWB	.X	± -		APPD DJK 12-15-1999			
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010		.XX	± -	TITLE CONNECTION DIAGRAM – EXTERNAL SINGLE VOLTAGE 3Ø MOTOR	SCALE 1=1			
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB	.XXX	± -		REF			
1	NEW DRAWING	KL 12-16-1999		.XXXX	± -	MAT'L.	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 ee7300s		SIZE A	DRAWING NO. EE7300S	PAGE OF	REV. F
			DIST WA-LB-SB							



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300S

CAT #: 824586.00

OUTLINE: B-SS301011-1300

WINDING: 3266122

NONE 7

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1200	1182	326T	TEAO	TTN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	38.5	LINE OR INVERTER	CONT	H	1.15	90	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	92.4	GTD EFF	92.4	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	79.0	3/4 LD PF	75.0	1/2 LD PF	66.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
134 LB-FT	217	200 LB-FT 149%	375 LB-FT 280%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	9.4 LB-FT²	500 LB-FT²	20 SEC.	2	700 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	NONE	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
HEAT ST/AT ST/	DC 44M	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312 6311						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS CLH (N/C)	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
0.147	0.121	0.913	1.154	16.271	0.080	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 20:1 INV. HP SPEED RANGE: NONE
		ENCODER: NONE NONE NONE
		NONE PPR

DATE: 1/18/2018	BRAKE: NONE NONE NONE
	FT-LB: NA VOLTAGE: NONE UL: Y-(LEESON UL REC)
	HZ:

Data Sheet

Date: 1/18/2018

824586.00



Data @ 460 V

Motor Load Data

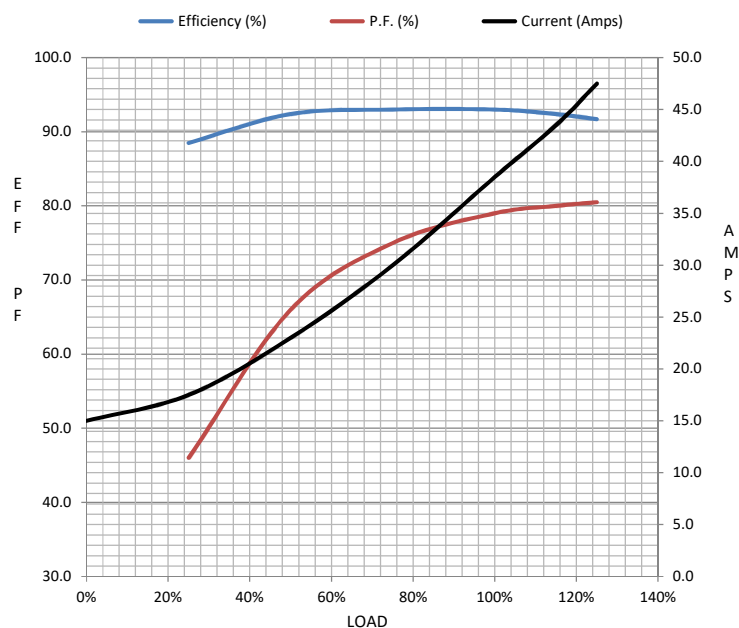
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	17.5	23.0	30.0	38.5	43.5	47.5	217	
Torque (ft-lb)	0.00	33.0	66.0	100	134	154	168	200	
RPM	1200	1195	1190	1185	1182	1,178	1175	0	
Efficiency (%)		88.5	92.4	93.0	93.0	92.4	91.7		
P.F. (%)	5.0	46.0	66.0	75.0	79.0	80.0	80.5	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1182	1200
Current (Amps)	217	200	140	38.5	15.0
Torque (ft-lb)	200	175	375	134	0.00

Information Block

HP	30.0			
Sync. RPM	1200			
Frame	326			
Enclosure	TEAO			
Construction	TTN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	9.4 Lb-Ft²			
Ref Wdg	3266122 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 20:1			
Outline Dwg	B-SS301011-1300			
Conn. Diag	A-EE7300S			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1470	0.1210	0.9130	1.1540	16.2710



Speed - Torque Curve

