

PRODUCT INFORMATION PACKET



Model No: 825421.00

Catalog No: 825421.00

Explosion Proof Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM,
447/449T Frame, EPFC



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Nameplate Specifications

Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1190 & 985 rpm	Service Factor	1.15 & 1.15
Frame	447/449T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	240 & 220 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6318
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.016 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	51.85 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.81 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS515578-2875	Connection Drawing	A-EE7300S-LE



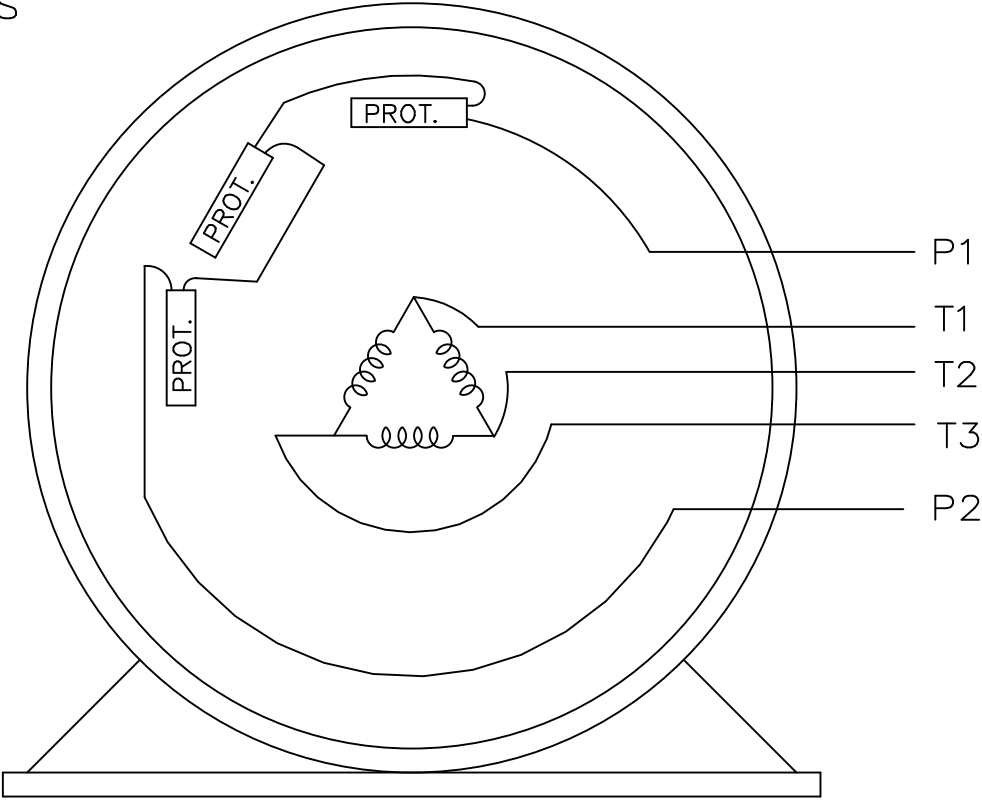
1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	51.85 [1316.99]	20.00 [508.00]	-----	2.09 [53.09]
2875	449T	28.25 [717.55]	51.85 [1316.99]	-----	25.00 [635.00]	2.09 [53.09]

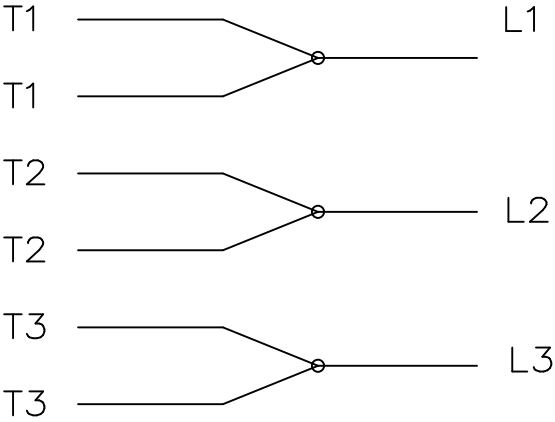
DRAWING REVISION C		REVISION BY AJW		DATE 03-31-2015																					
ECO ECO-0074730		APPROVED BY TDB		DATE 04-01-2015																					
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS																									
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TOLERANCES UNLESS OTHERWISE SPECIFIED: <table><tr><td>DEC.</td><td>INCH</td><td>mm</td><td>ANGLE</td></tr><tr><td>.X</td><td>±0.1</td><td>[±2.5]</td><td>±7° 30"</td></tr><tr><td>.XX</td><td>±0.03</td><td>[±0.76]</td><td></td></tr><tr><td>.XXX</td><td>±0.005</td><td>[±0.127]</td><td></td></tr><tr><td>.XXXX</td><td>±0.0005</td><td>[±0.0127]</td><td></td></tr></table> REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [5.1] MACHINED SURFACES: 200 INCH/mm 5.1/INCH/mm SHOWN IN [BRACKETS]						DEC.	INCH	mm	ANGLE	.X	±0.1	[±2.5]	±7° 30"	.XX	±0.03	[±0.76]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]	
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DRAWN BY SMC			DATE 04-15-1996																						
APPROVED BY JPN			DATE 04-19-1996																						
REFERENCE			MATERIAL																						
THIRD ANGLE PROJECTION			DRAWING NUMBER SS515578																						
DESCRIPTION 447/449T FR. -EXP. PR. - STD.			PROCESS/FINISH																						
SIZE B			SHEET 1 OF 1																						

SINGLE VOLTAGE
THREE PHASE MOTOR
WITH 2 LEADS OUT FROM PROTECTORS

PROTECTORS CONNECTED IN SERIES



IF MOTOR HAS
6 LEADS



VIEW OF TERMINAL END

A-9806 DECAL

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN DRS 01-21-2003					
				DEC.	INCHES		CHK	ML 01-21-2003				
				.X	± -		APPD	TB 01-21-2003				
				.XX	± -		TITLE CONNECTION DIAGRAM 3ø - SINGLE VOLTAGE			SCALE	1=1	
				.XXX	± -					REF		
1	NEW DRAWING	CN 36098	DRS 01-21-2003	TB	.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	DRAWING NO.	PAGE OF	REV.
				DIST LB					A	EE7300S-LE		1



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300S-LE
OUTLINE: B-SS515578-2875
WINDING: T449627

CAT #: 825421.00

R4 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1200	1190	447/449T	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	240&220	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	95.8	1/2 LD EFF	94.5	GTD EFF	95.4	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	81.0	3/4 LD PF	78.0	1/2 LD PF	70.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
883 LB-FT	1,450	1,325 LB-FT 150%	2,100 LB-FT 238%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	115 LB-FT²	2700 LB-FT²	25 SEC.	0	2850 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	DF CL I GR C&D CL II GF	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
ROLLER BALL	POLYREX EM	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
NU319 6318						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (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
0.01	0.01	0.125	0.16	2.741	0.080	NONE

* N O T E S *		INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 1/19/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	NONE
	VOLTAGE: NONE	HZ:
	UL: NONE	

Data Sheet

Date: 1/19/2018

825421.00



Data @ 460 V

Motor Load Data

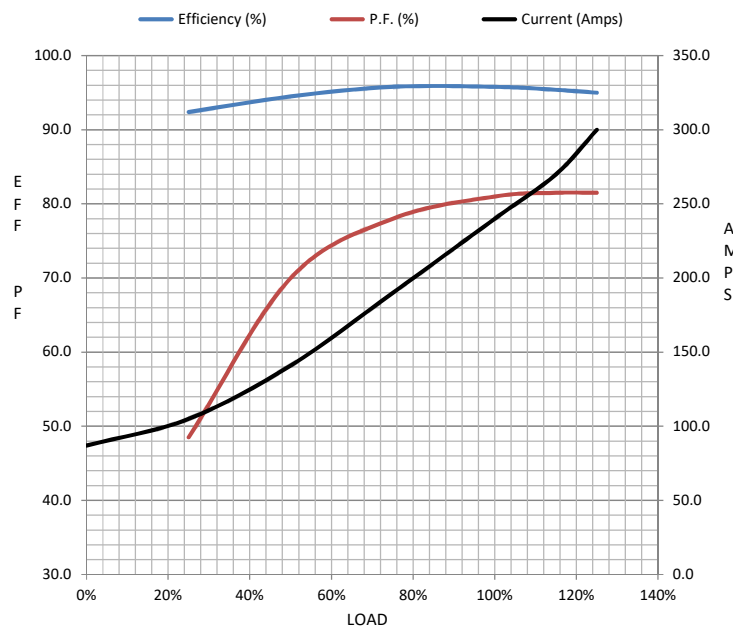
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	87.0	105	141	190	240	270	300	1,450	
Torque (ft-lb)	0.00	220	440	661	883	995	1,108	1,325	
RPM	1200	1196	1194	1192	1190	1,188	1186	0	
Efficiency (%)		92.4	94.5	95.8	95.8	95.4	95.0		
P.F. (%)	4.0	48.5	70.0	78.0	81.0	81.5	81.5	25.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1190	1200
Current (Amps)	1,450	1,350	825	240	87.0
Torque (ft-lb)	1,325	1,300	2,100	883	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
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	115 Lb-Ft²			
Ref Wdg	T449627 R4			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS515578-2875			
Conn. Diag	A-EE7300S-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0100	0.0100	0.1250	0.1600	2.7410



Speed - Torque Curve

