

Crop Dryer Motors

Model No: 284TTDBD6327

Catalog No: Y319

Crop Dryer Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284TZ Frame, DP

Product Information Packet: Model No: 284TTDBD6327, Catalog No: Y319 Crop Dryer Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284TZ Frame, DP

Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	1775 & 1475 r/min	Synchronous RPM	1800 & 1500 r/min
Service Factor	1.15 & 1.15	Frame	284TZ
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	93.6 & 92.6 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	63/31.5 & 61/30.5 A
Power Factor	80	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	22	Number of Speeds	1

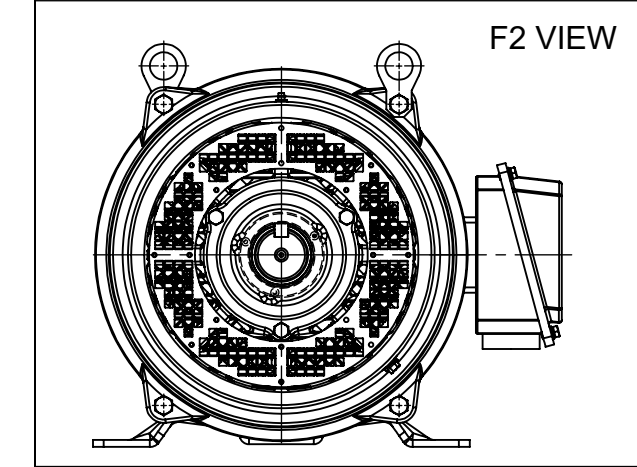
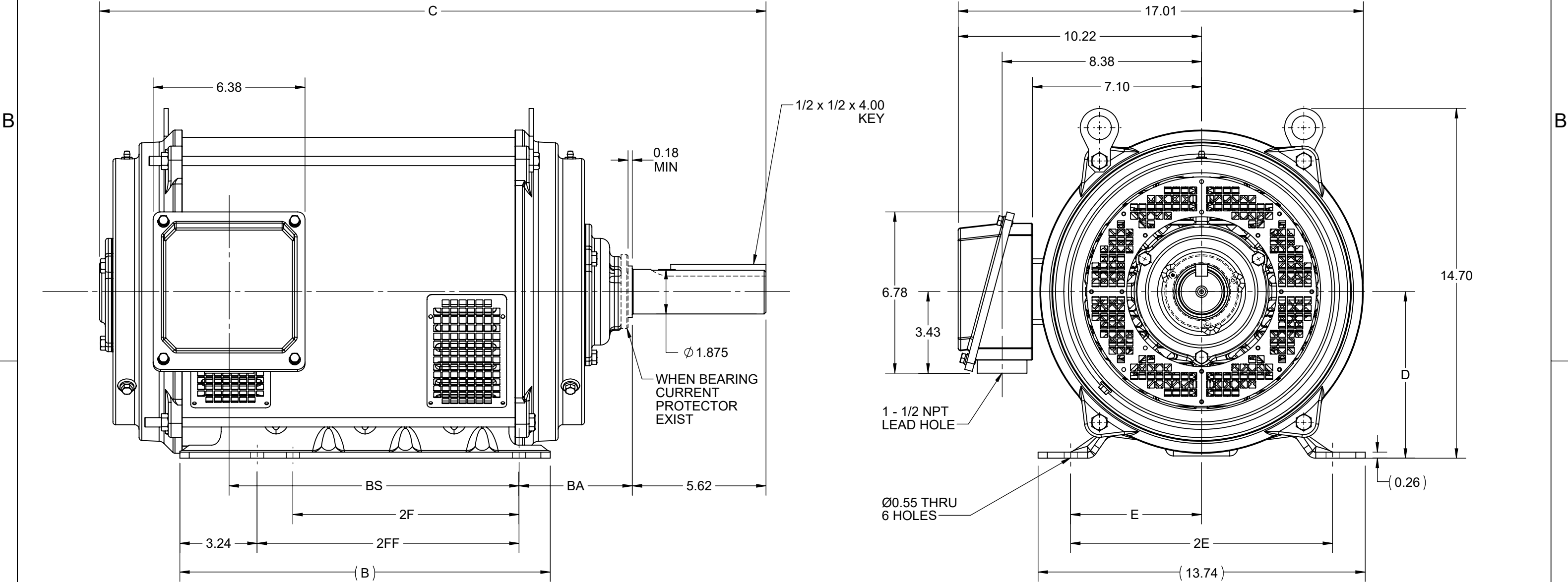
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.3745 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Shaft Diameter	1.875 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 2:1/Variable 10:1

Drawings

Connection Drawing	EE7308AA	Outline Drawing	SS621048-100
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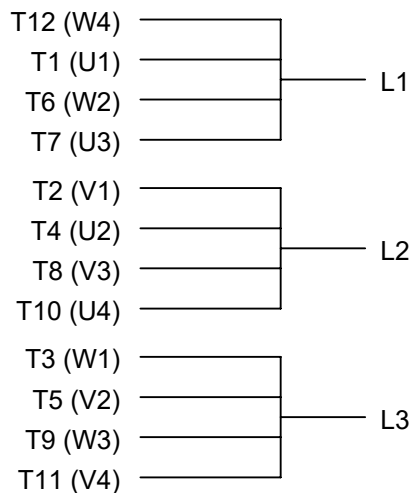
4				3				2			1
DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	15.55	26.60	7.00	5.50	11.00	9.50	11.00	4.75	10.80	F1 OR F2	284TZ
200		27.98							12.18		286TZ



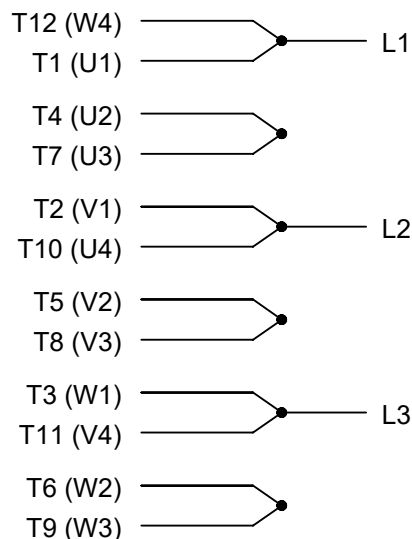
DRAWING REVISION E	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/01/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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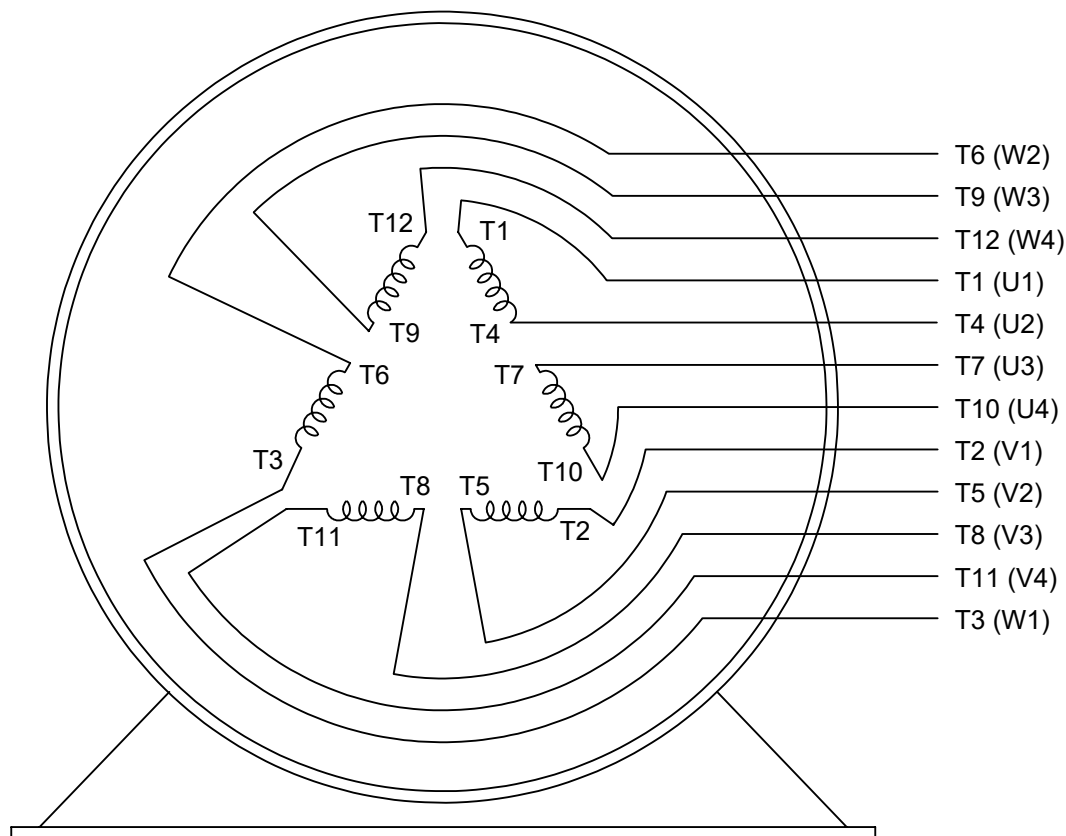
DRAWN BY VS	marathon™	
DATE 04/08/2020		
APPROVED BY MS	DESCRIPTION OUTLINE	
DATE 04/08/2020	284/286TZ FR NEMA ODP RS-CROP DRYER	
REFERENCE SS620687	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS621048
		SHEET 1 OF 1



LOW VOLTAGE



HIGH VOLTAGE

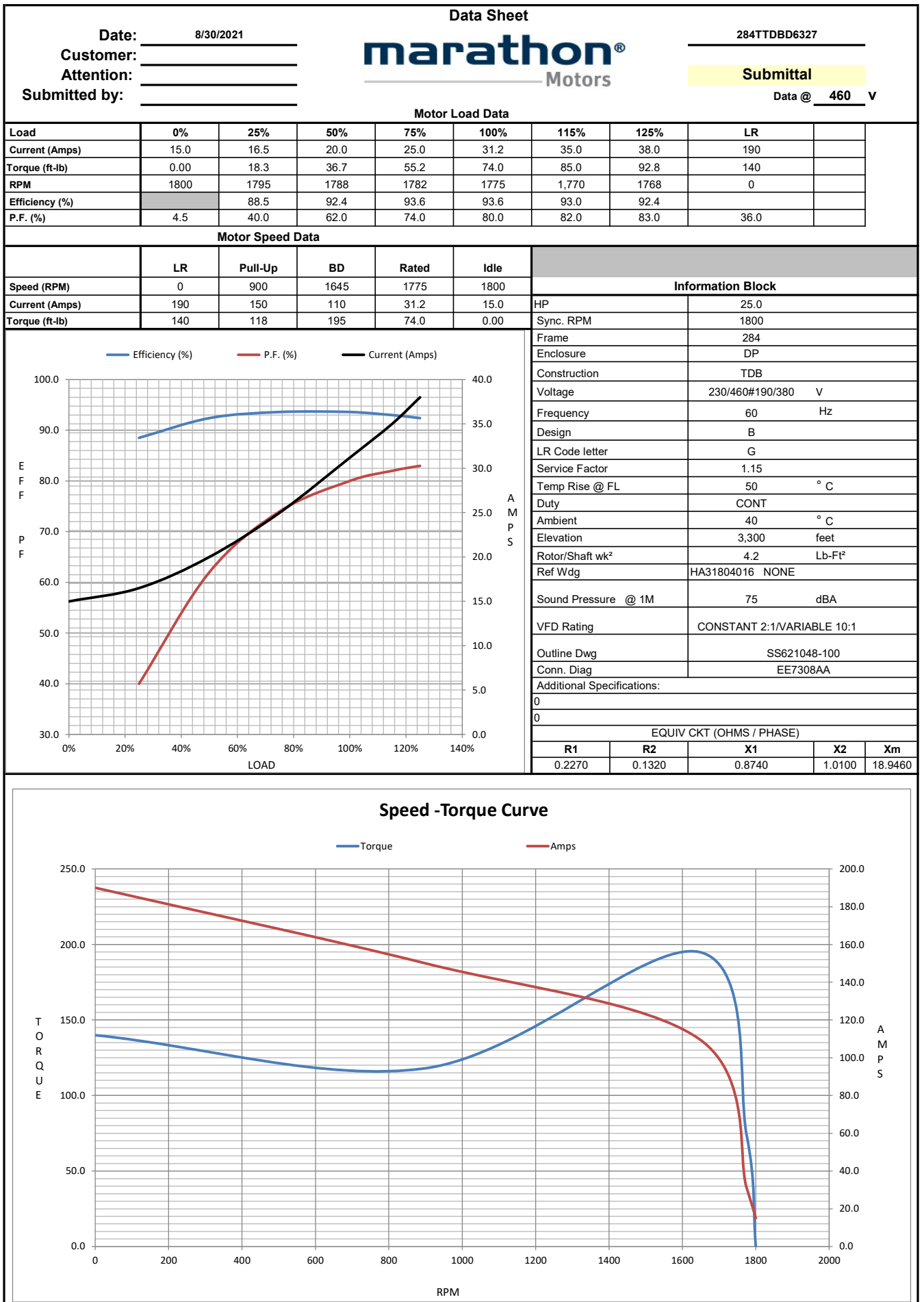


VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
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DRAWN BY LZ	marathon™		
DATE 01-12-1994			
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL		
DATE 01-14-1994	3Ø-2/1 DELTA-12 LEADS		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1





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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:**ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

EE7308AA

SS621048-100

HA31804016

NONE

2

CUSTOMER P.O. #:**REFERENCE MODEL #:****CAT #:****CUSTOMER PART #:****MOUNTING:**

284TTDBD6327

Y319

F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
25	18.7	1800	1775	284TZ	DP	TDB	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	62.5/31&60/30	PWS (LV ONLY) & YDRUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	92.4	GTD EFF	93.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	80.0	3/4 LD PF	74.0	1/2 LD PF	62.0				

F.L. TORQUE	74.0	LB-FT	190	LR AMPS @ 460 V	190	L.R. TORQUE	140	LB-FT	189%	B.D. TORQUE	195	LB-FT	264%	F.L. RISE (°C)	50
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SOUND PRESSURE @ 3 FT.	75	dBA <td>84</td> <th>POWER</th> <td>4.2</td> <th>ROTOR WK²</th> <td>LB-FT²</td> <td>328</td> <th>MAX. LOAD WK²</th> <td>LB-FT²</td> <td>15</td> <th>SAFE STALL TIME</th> <td>SEC.</td> <td>2</td> <th>STARTS/HOUR</th> <td>350</td> <th>APPROX.</th> <td>MOTOR WGT</td> <td>LB.</td>	84	POWER	4.2	ROTOR WK²	LB-FT²	328	MAX. LOAD WK²	LB-FT²	15	SAFE STALL TIME	SEC.	2	STARTS/HOUR	350	APPROX.	MOTOR WGT	LB.
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*** SUPPLEMENTAL INFORMATION ***																	
DE BRACKET TYPE	STANDARD	ODE BRACKET TYPE	STANDARD	MOUNT TYPE	RIGID	MOTOR ORIENTATION	HORIZONTAL	SEVERE DUTY	NO	HAZARDOUS LOCATION	NONE	DRIP COVER	YES	SCREENS	RODENT	PAINT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	SGL SPL EXT	1.875 x 5.62 IN SEK	NONE	1045 HOT ROLLED (C-204)		ROLLED STEEL
BALL	BALL							
6311	6210							

THERMOSTATS	NONE	PROTECTORS	NOT	WDG RTD's	NONE	BRG RTD's	NONE	THERMISTORS	NONE	CONTROL	FALSE	SPACE	NA	HEATERS	NA
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R1 (ohms/ph)	0.227	R2 (ohms/ph)	0.132	X1 (ohms/ph)	0.874	X2 (ohms/ph)	1.01	Xm (ohms/ph)	18.946	VIBRATION (in/sec)	0.150	FLOAT	ODE
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* N O T E s *											INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE				
											ENCODER: NONE NONE NONE NONE PPR				
											BRAKE: NONE NONE NONE				
											FT-LB: NA VOLTAGE: NONE HZ:				
											UL: V - LI ME-INS. CONST UL REC				

PREPARED BY: _____														
DATE: 8/30/2021														

FORM: 3531 REV. 4 2/27/06