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Explosion Proof Motors

Model No: 449TTGS16557
Catalog No: H504A

Explosion Proof Motor, 350 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, EPFC

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Product Information Packet: Model No: 449TTGS16557, Catalog No: H504A Explosion Proof Motor, 350 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, EPFC

Nameplate Specifications

Phase	**3**	Output HP	**350 Hp**
Output KW	**260.0 kW**	Voltage	**460 V**
Speed	**1785 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.00**	Frame	**447/449T**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**96.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**395.0 A**
Power Factor	**86.5**	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	**DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B**		

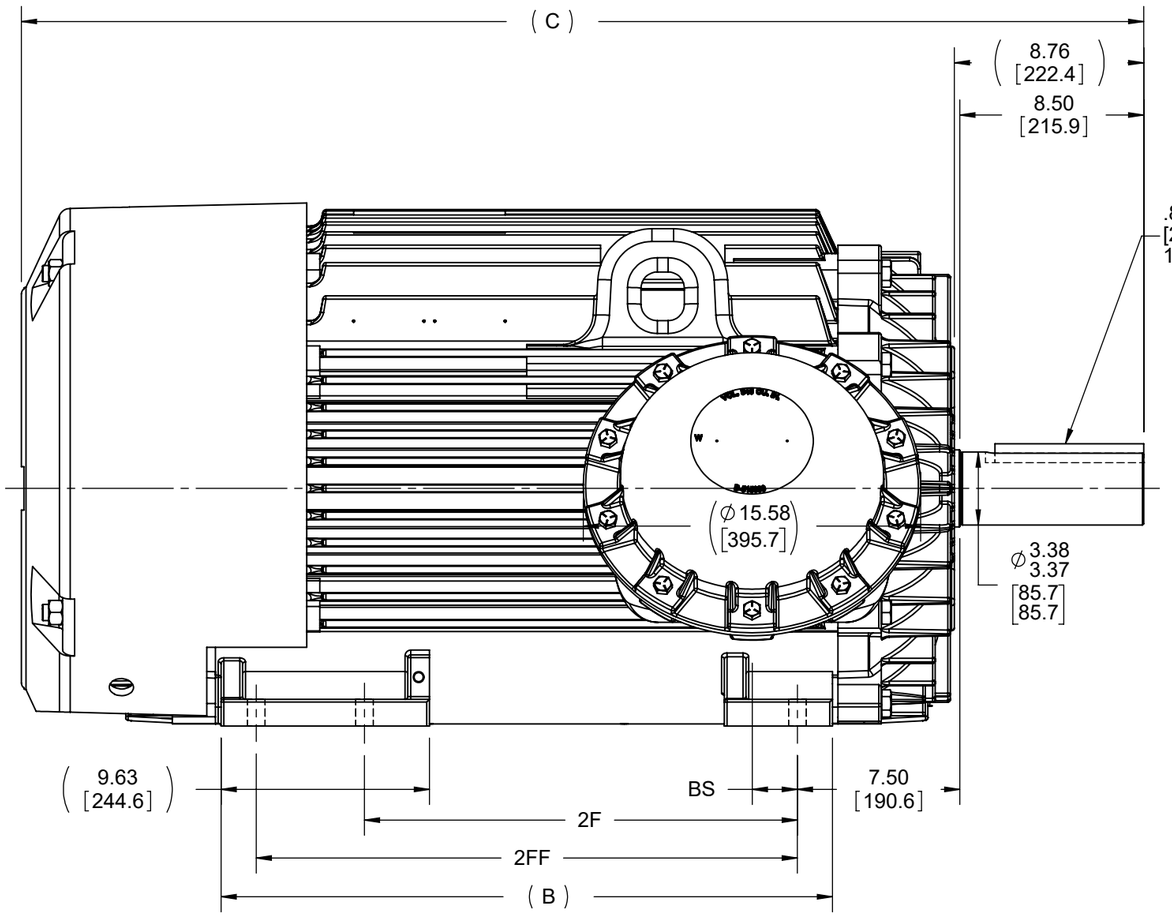
Technical Specifications

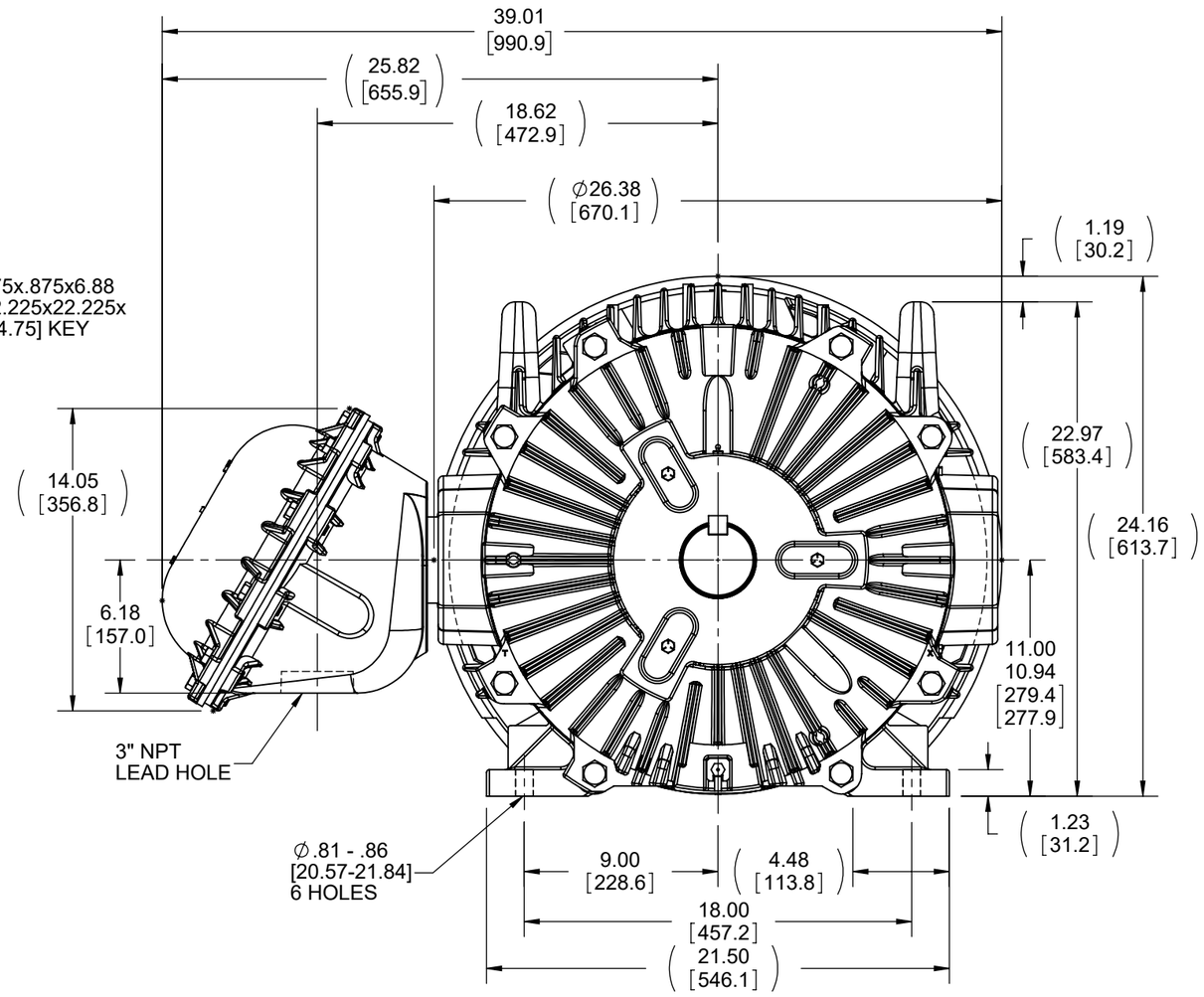
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start & Wye Start Delta Run Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.0075 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Roller**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**51.85 in**
Frame Length	**28.75 in**	Shaft Diameter	**3 3/8 in**
Shaft Extension	**8.76 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Constant 2:1/Variable 10:1**		

Drawings

Connection Drawing	**A-EE7300CB**	Outline Drawing	**B-SS515578-2875**

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NOTES:
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	REVISION BY	REV DATE/© DATE
D	SB	07/30/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	07/30/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	SMC
DATE	04-15-1996
APPROVED BY	JPN
DATE	04-19-1996
REFERENCE	
THIRD ANGLE PROJECTION	

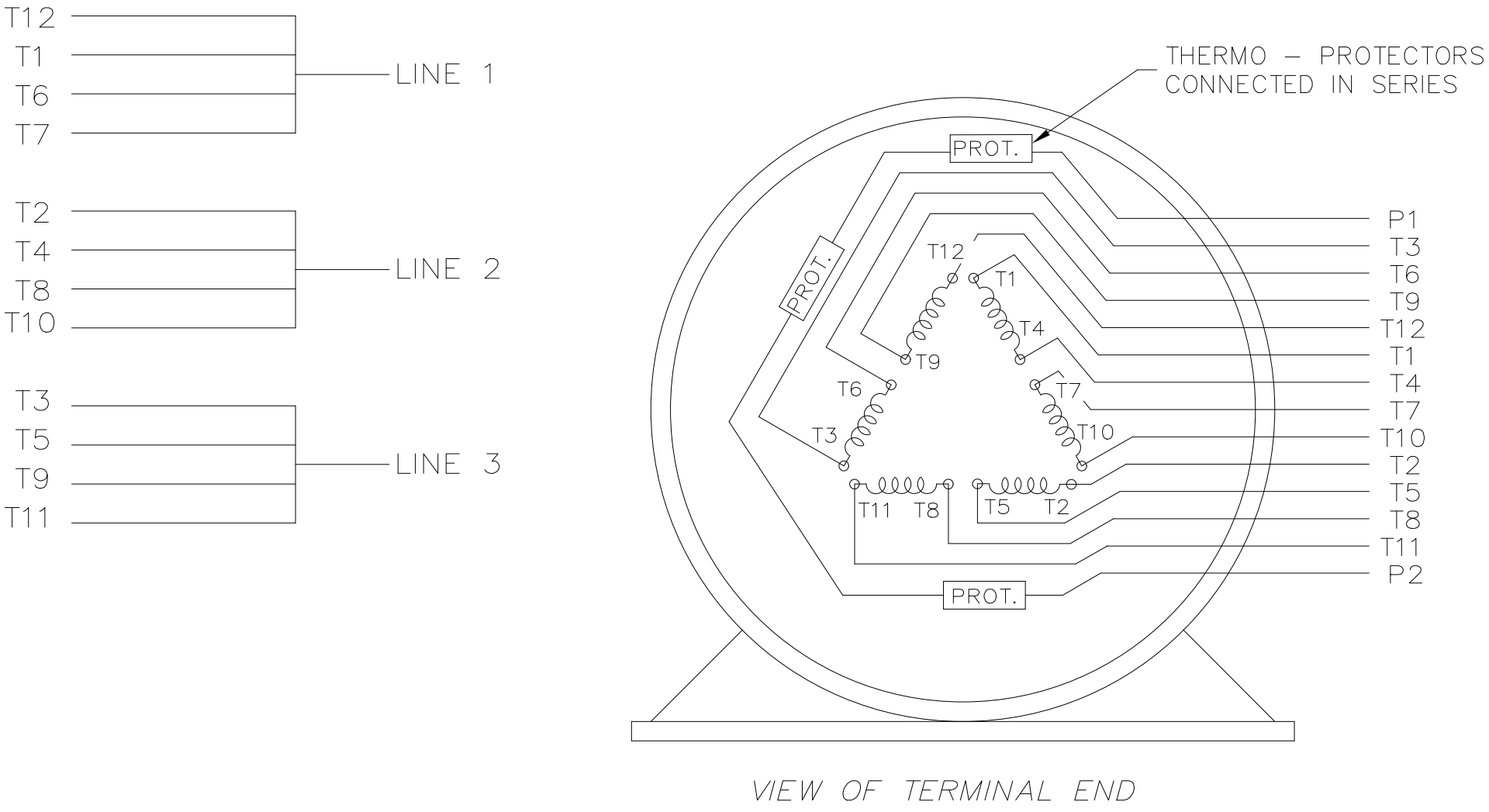
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DESCRIPTION
OUTLINE
447/449T FR. -EXP. PR.- STD.

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS515578	1 OF 1

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VIEW OF TERMINAL END

DRAWING REVISION: B	REVISION BY: SB	REV DATE/ © DATE: 08/04/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: KL
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025		DATE: 02/27/2003
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: JES
				DATE: 03-03-2003
				REFERENCE
				THIRD ANGLE PROJECTION

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DESCRIPTION: CONNECTION DIAGRAM
12 LEAD SINGLE VOLTAGE

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300CB	1 OF 1

4 of 6

Data Sheet

Date: 6/19/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

449TTGS16557

Submittal

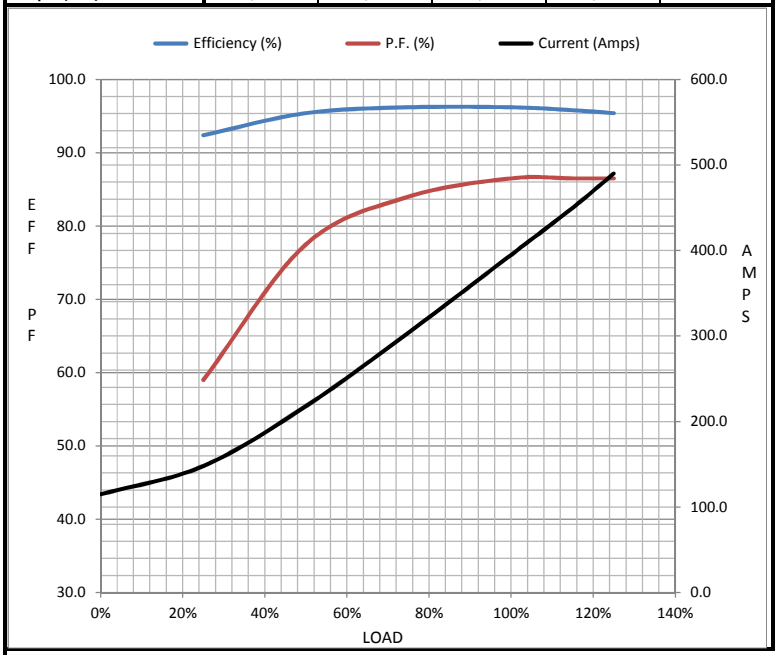
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	115	148	218	304	395	450	490	2,550	
Torque (ft-lb)	0.00	256	512	770	1,030	1,185	1,290	2,075	
RPM	1800	1796	1794	1790	1785	1,782	1780	0	
Efficiency (%)		92.4	95.4	96.2	96.2	95.8	95.4		
P.F. (%)	5.5	59.0	77.5	84.0	86.5	86.5	86.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	2,550	2,250	1,350	395	115
Torque (ft-lb)	2,075	1,950	2,400	1,030	0.00



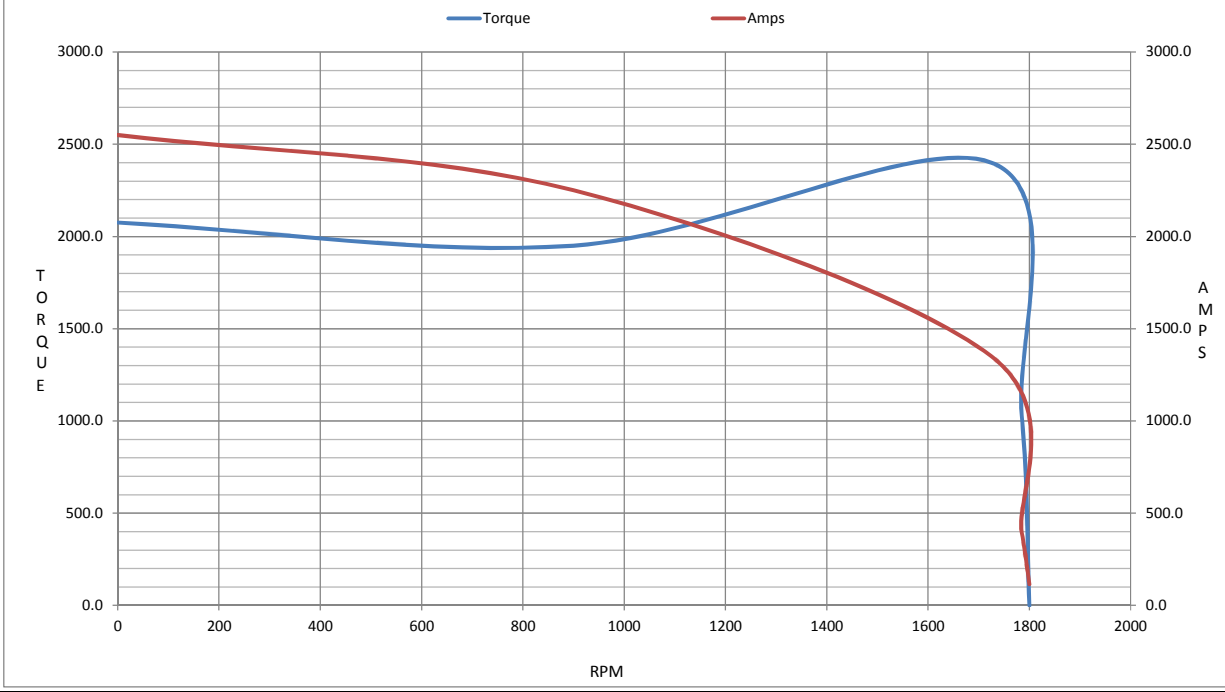
Information Block

HP	350.0	
Sync. RPM	1800	
Frame	449	
Enclosure	TEFC	
Construction	TFN	
Voltage	460	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	80	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	98.0	Lb-Ft²
Ref Wdg	T4494123 NONE	
Sound Pressure @ 1M	85	dBA
VFD Rating	CONSTANT 2:1	
Outline Dwg	B-SS515578-2875	
Conn. Diag	A-EE7300CB	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0070	0.0050	0.0660	0.1000	2.3110

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	449TTGS16557 AA	**WINDING#:**	T4494123 NONE 1
CONN. DIAGRAM:	A-EE7300CB	**ASSEMBLY:**	F1 ONLY
OUTLINE:	B-SS515578-2875		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
350	260	1800	1785	447/449T	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	395	PWS & YDRUN OR INV	CONTINUOUS	F1	1.0	40	3300

FULL LOAD EFF: 96.2	3/4 LOAD EFF: 96.2	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5	3/4 LOAD PF: 84	1/2 LOAD PF: 77.5	95.8	SQ CAGE INV RATED	115

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1030 LB-FT	2550	2075 LB-FT 201	2400 LB-FT 233	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	98 LB-FT^2	2900 LB-FT^2	25 SEC.	1	3100 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER NU319	BALL 6318	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/21/2017 07:28:17 AM
FORM 3531 REV.3 02/07/99
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