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Inverter (Vector) Duty Motors

Model No: 213THTL7726
Catalog No: Y545

Inverter (Vector) Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TENV

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Product Information Packet: Model No: 213THTL7726, Catalog No: Y545 Inverter (Vector) Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TENV

Nameplate Specifications

Phase	**3**	Output HP	**7.50 Hp**
Output KW	**5.6 kW**	Voltage	**230/460 V**
Speed	**1765 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.0**	Frame	**213TC**
Enclosure	**Totally Enclosed Non Ventilated**	Thermal Protection	**Thermostat**
Efficiency	**90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**21.0/10.5 A**
Power Factor	**76**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**INV**
KVA Code	**L**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

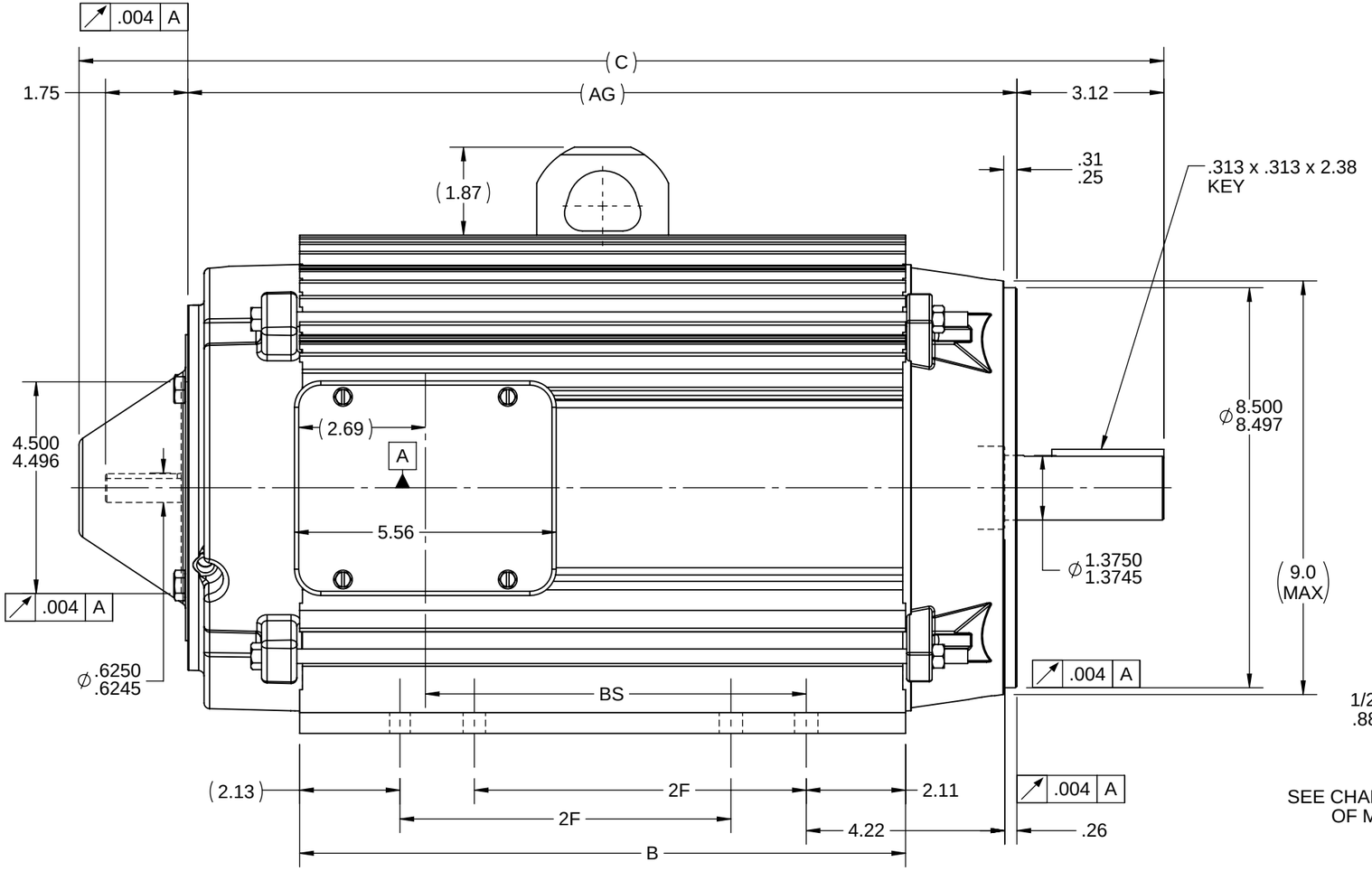
Technical Specifications

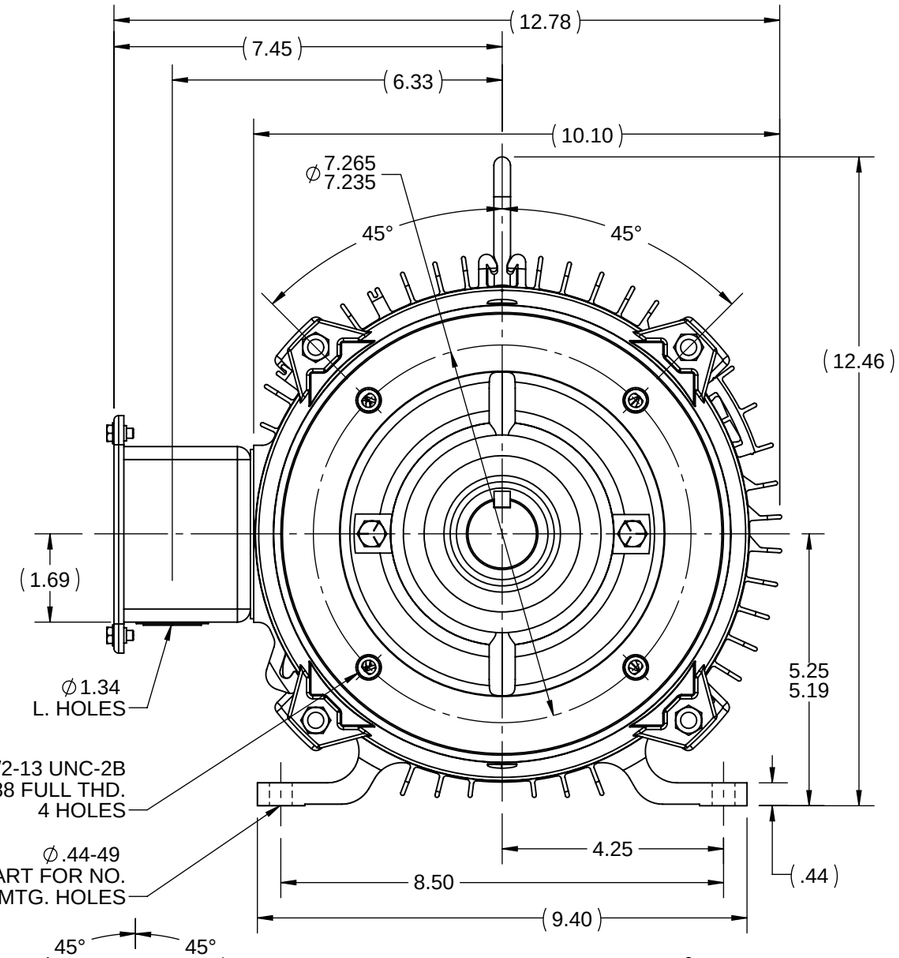
Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.02 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Aluminum**
Shaft Type	**T**	Overall Length	**20.54 in**
Frame Length	**10.25 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.12 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 1000:1**		

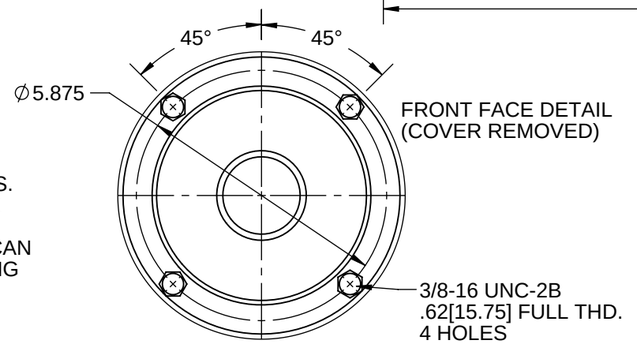
Drawings

Connection Drawing	**A-EE7308T**	Outline Drawing	**B-SS330105-1025**

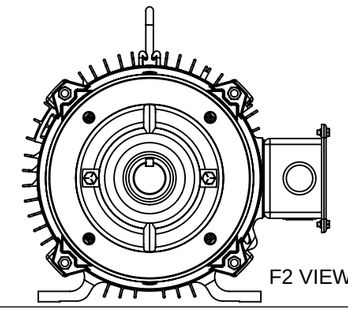
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FRONT FACE DETAIL
(COVER REMOVED)



F2 VIEW

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 180° STEPS.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
3. SEE CHART FOR F2 CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

DASH	FR.	B	C	2F	AG	BS	F2 CAP.	# HOLES
875	213	8.87	19.04	5.50	13.61	4.05	YES	8
950	213	9.62	19.79	5.50	14.36	4.80	NO	4
1025	213	10.37	20.54	5.50	15.11	5.55	YES	8
1025	215	10.37	20.54	7.00	15.11	5.55	YES	8
1115	213/ 215	11.27	21.44	5.50 7.00	16.01	6.45	YES	8
1175	213	11.87	22.04	5.50	16.61	7.05	YES	8
1175	215	11.87	22.04	7.00	16.61	7.05	NO	4
1275	213	12.87	23.04	5.50	17.61	8.05	YES	8
1275	215	12.87	23.04	7.00	17.61	8.05	YES	8

DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	07/01/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026830	RMS	07/01/2026

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	MKLEIST
DATE	02-22-2005
APPROVED BY	CDG
DATE	09-29-2005
REFERENCE	

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DESCRIPTION
OUTLINE
210 FR. - ALUMINUM FRAME - TENV - DBL. C' FACE

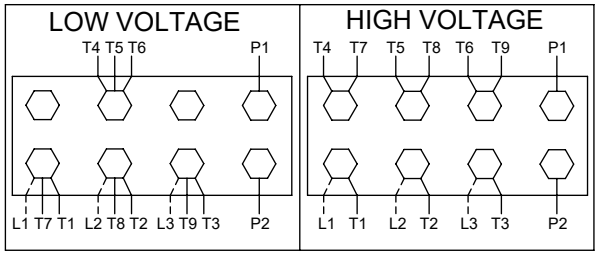
MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

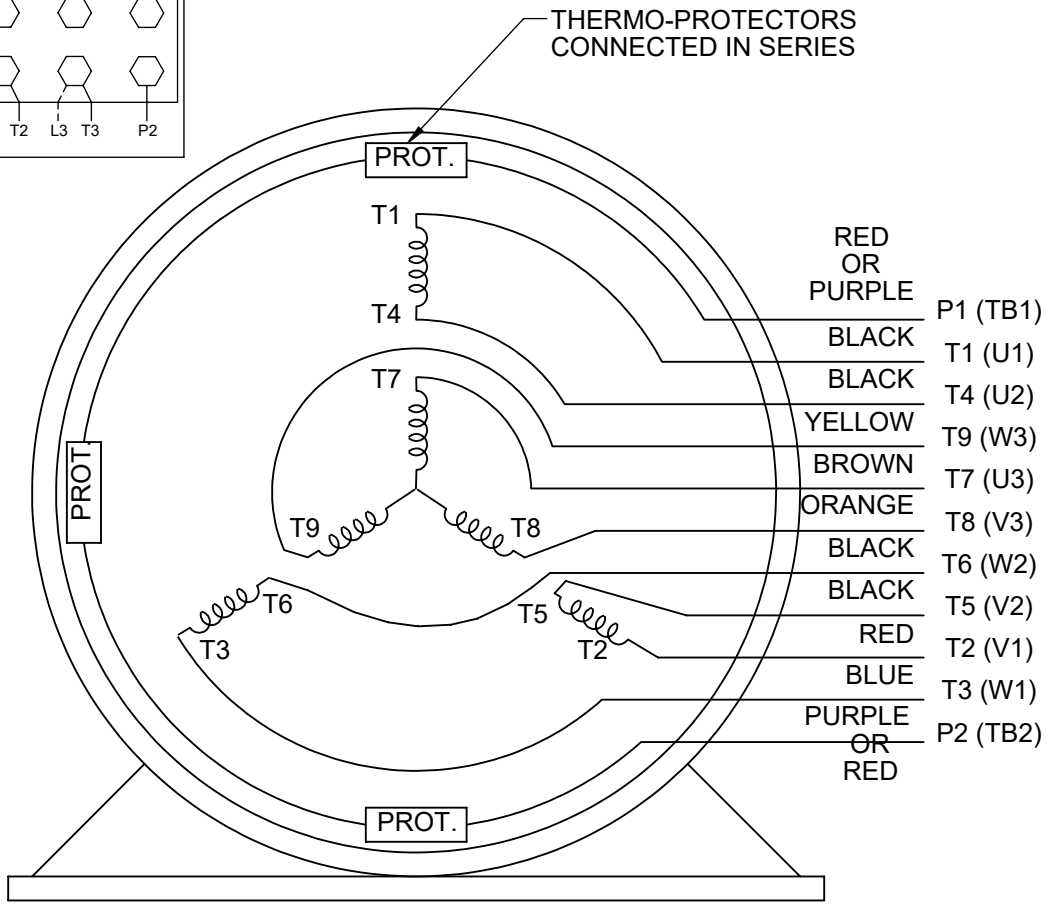
SIZE	DRAWING NUMBER	SHEET
B	SS330105	1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9



THREE PHASE DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR IMG PLANT

DRAWING REVISION: U	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: SMC	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 05-13-1992	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

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Data Sheet

Date: 16-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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213THTL7726

Submittal

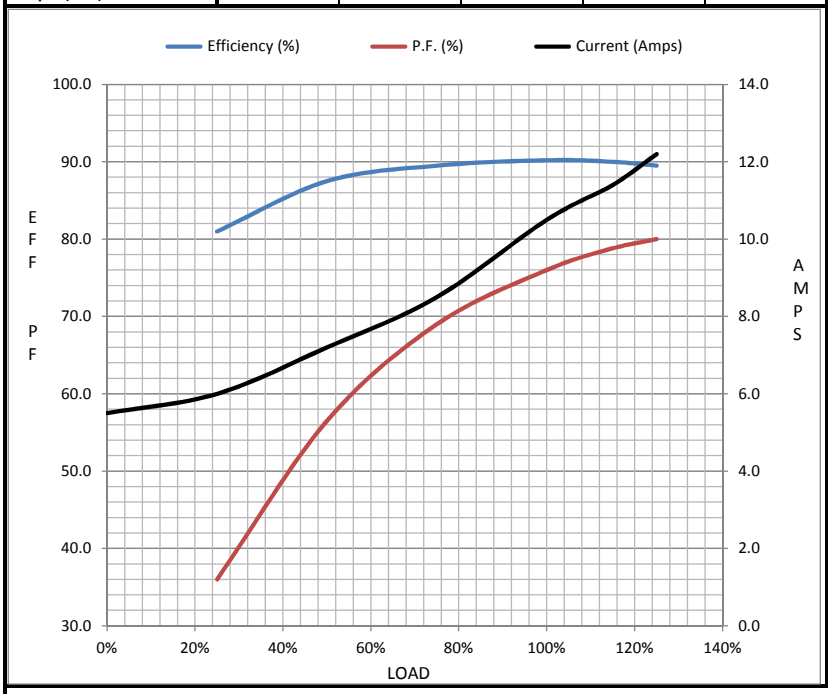
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.5	6.0	7.2	8.5	10.5	11.4	12.2	90.0	
Torque (ft-lb)	0.00	5.5	11.0	16.8	22.3	25.7	28.0	59.5	
RPM	1800	1792	1782	1772	1765	1,760	1755	0	
Efficiency (%)		81.0	87.5	89.5	90.2	90.0	89.5		
P.F. (%)	6.5	36.0	56.5	69.0	76.0	78.8	80.0	41.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1515	1765	1800
Current (Amps)	90.0	85.0	55.0	10.5	5.5
Torque (ft-lb)	59.5	55.0	95.5	22.3	0.00



Information Block

HP	7.5
Sync. RPM	1800
Frame	213
Enclosure	TENV
Construction	TTL
Voltage	230/460 V
Frequency	60 Hz
Design	A
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	80 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.90 Lb-Ft²
Ref Wdg	K2134177 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 1000:1
Outline Dwg	B-SS330105-1025
Conn. Diag	A-EE7308T

Additional Specifications:

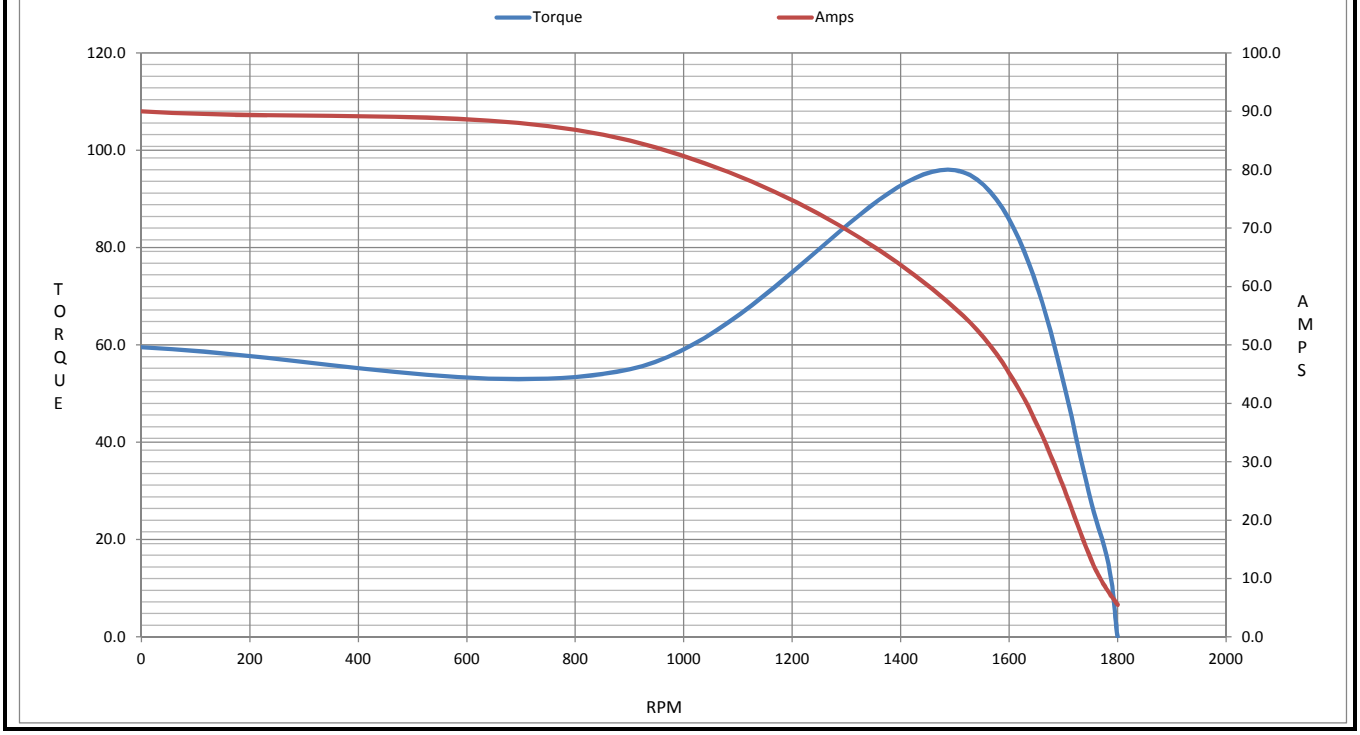
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.6990	0.5670	1.7650	2.2600	38.1780

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	213THTL7726 CE	**WINDING#:**	K2134177 NONE 1
CONN. DIAGRAM:	A-EE7308T	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS330105-1025		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1800	1765	213TC	TENV	L	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	21/10.5	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300

FULL LOAD EFF: 90.2	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 69	1/2 LOAD PF: 56.5	88.5	SQ CAGE INV DUTY	11 / 5.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	180 / 90	59.5 LB-FT 267	95.5 LB-FT 428	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.9 LB-FT^2	0 LB-FT^2	0 SEC.	0	135 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.6993	0.567	1.76526	2.26044	38.178

RM	ZREF	XR	TD	TD0
1946.7	37.8	3.2	0.0108	0.189

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

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 1000:1
INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: PROVISIONS ONLY
NORTHSTAR ST56
NONE NONE PPR

BRAKE: PROVISIONS ONLY NONE
NONE P/N NONE

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NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

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