

Inverter (Vector) Duty Motors

Model No: 254THTL5726

Catalog No: Y549

Inverter (Vector) Duty Motor, 15 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 254TC Frame, TENV

Product Information Packet: Model No: 254THTL5726, Catalog No: Y549 Inverter (Vector) Duty Motor, 15 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 254TC Frame, TENV

Nameplate Specifications

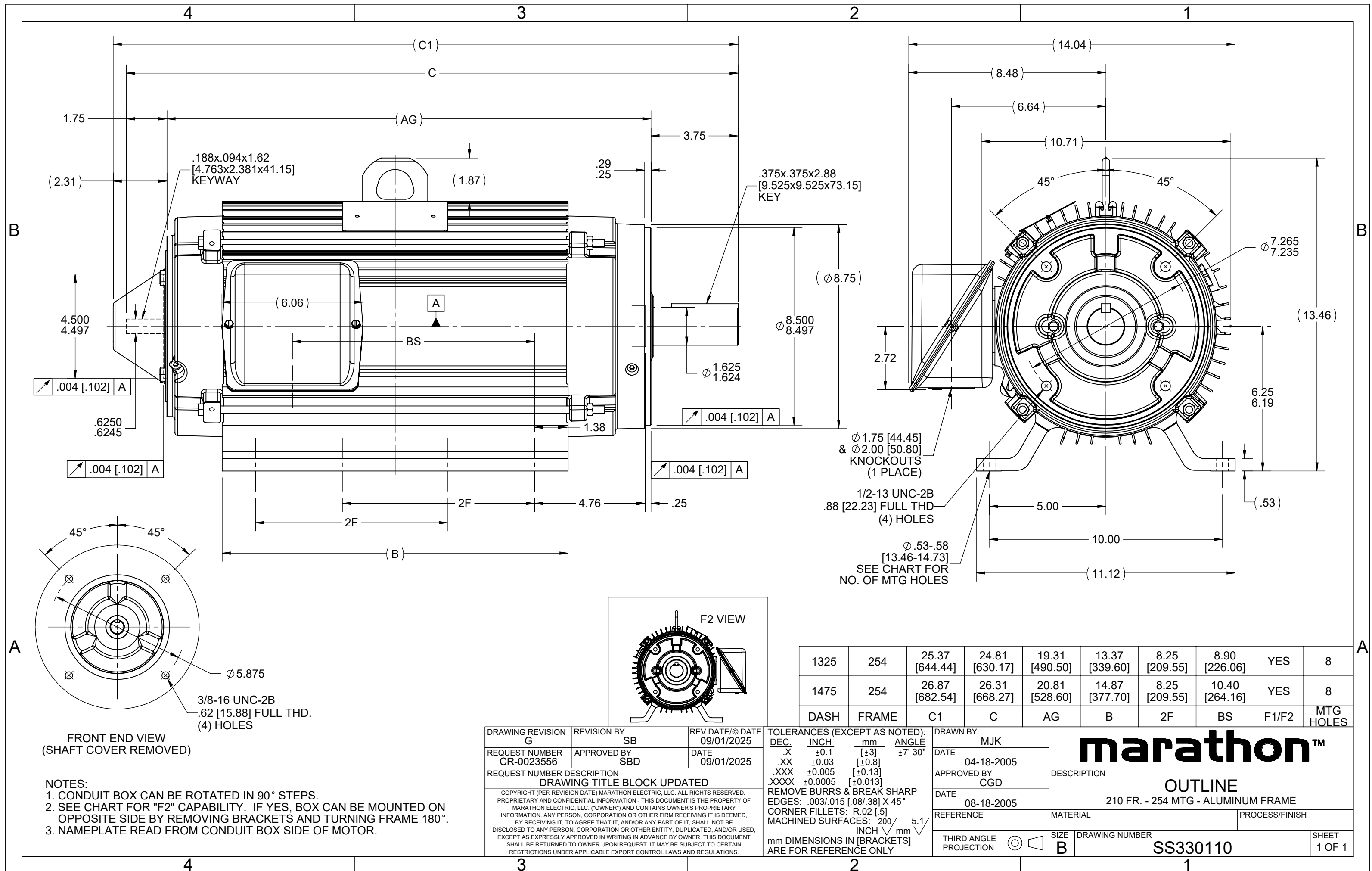
Phase	3	Output HP	15 Hp
Output KW	11.2 kW	Voltage	230/460 V
Speed	1765 r/min	Synchronous RPM	1800 r/min
Service Factor	1.0	Frame	254TC
Enclosure	Totally Enclosed Non Ventilated	Thermal Protection	Thermostat
Efficiency	91.7 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	40.0/20.0 A
Power Factor	76	Duty	Continuous
Insulation Class	H	Design Code	INV
KVA Code	K	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

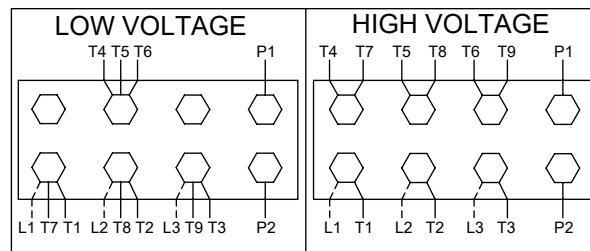
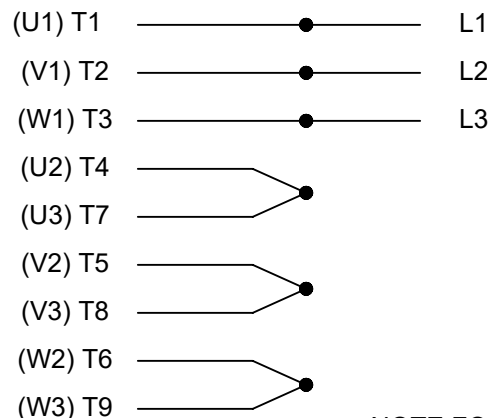
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.448 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	26.87 in
Frame Length	14.75 in	Shaft Diameter	1 5/8 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	Constant 1000:1		

Drawings

Connection Drawing	A-EE7308T	Outline Drawing	B-SS330110-1475
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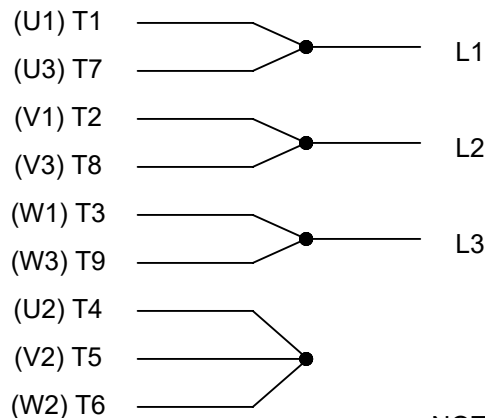


HIGH VOLTAGE

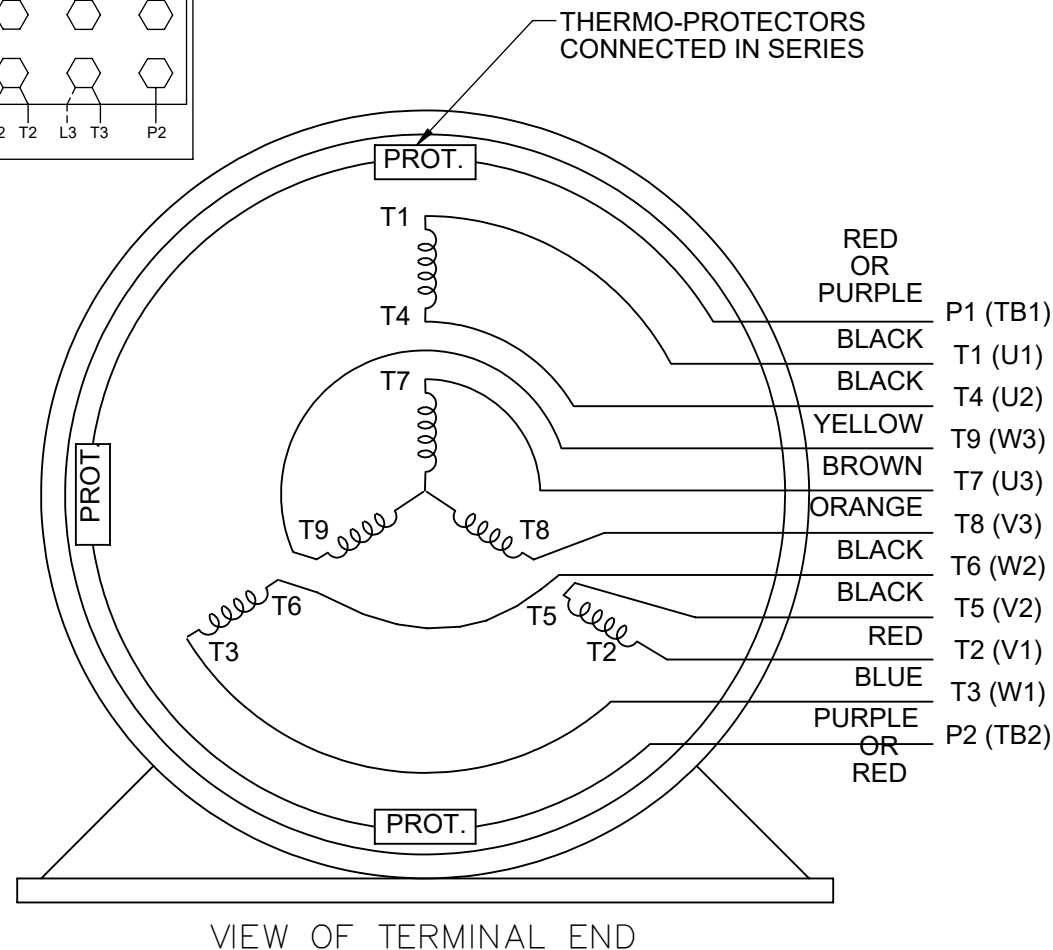


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR



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

DRAWING REVISION U	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY SMC	DATE 05-13-1992
APPROVED BY TB	DATE 05-13-1992
REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION

marathon™		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE - DUAL VOLTAGE MOTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



254THTL5726

Submittal

Data @ 460 V

Motor Load Data

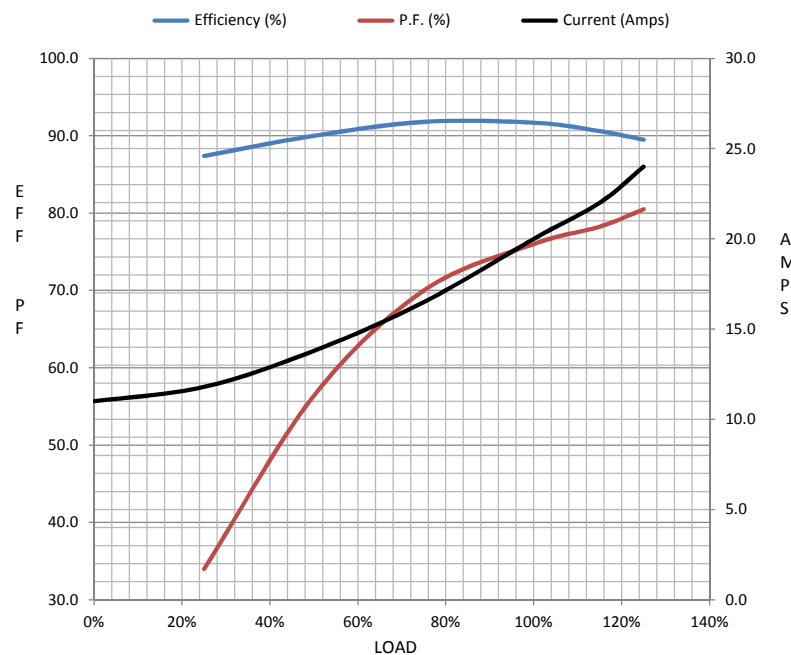
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	11.0	11.8	13.8	16.5	20.0	22.0	24.0	155	
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.6	48.1	51.5	140	
RPM	1800	1790	1785	1775	1765	1,761	1755	0	
Efficiency (%)		87.4	90.0	91.8	91.7	90.6	89.5		
P.F. (%)	5.7	34.0	56.4	70.0	76.0	78.3	80.5	43.5	

Motor Speed Data

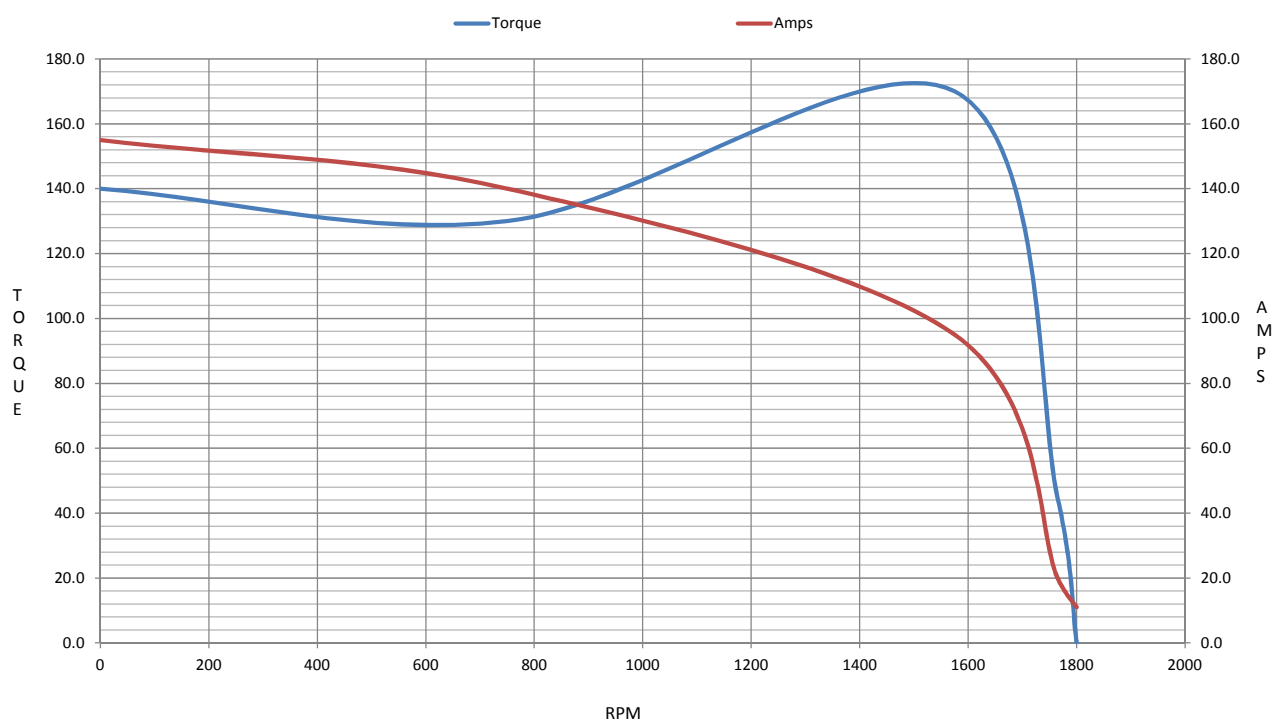
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1575	1765	1800
Current (Amps)	155	140	95.0	20.0	11.0
Torque (ft-lb)	140	130	170	44.6	0.00

Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	K			
Service Factor	1.0			
Temp Rise @ FL	105 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.60 Lb-Ft ²			
Ref Wdg	K2154371 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS330110-1475			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3140	0.3160	1.0470	1.5690	22.1510



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 254THTL5726 FH
CONN. DIAGRAM: A-EE7308T
OUTLINE: B-SS330110-1475

WINDING#: K2154371 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	1800	1765	254TC	TENV	K	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	40/20	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.8	1/2 LOAD EFF: 90	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 70	1/2 LOAD PF: 56.4	91	SQ CAGE INV DUTY	22 / 11

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.6 LB-FT	310 / 155	140 LB-FT 314	170 LB-FT 381	105

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.6 LB-FT^2	0 LB-FT^2	0 SEC.	0	229 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.31374	0.31563	1.04706	1.5687	22.1508

RM	ZREF	XR	TD	TD0
2079	18.9	4	0.0115	0.2

*** 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	BALL						
6309	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

DATE: 06/23/2017 01:53:21 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.