

Multispeed Motors

Model No: 182TTDBD7413

Catalog No: Y453B

Multispeed Motor, 2 & 0.90 HP, 3 Ph, 60 & 60 Hz, 200-230 & 200-230 V, 1800 RPM, 182T Frame, DP

Product Information Packet: Model No: 182TTDBD7413, Catalog No: Y453B Multispeed Motor, 2 & 0.90 HP, 3 Ph, 60 & 60 Hz, 200-230 & 200-230 V, 1800 RPM, 182T Frame, DP

Nameplate Specifications

Phase	3	Output HP	2 & 0.90 Hp
Output KW	1.5 & 0.67 kW	Voltage	200-230 & 200-230 V
Speed	1775 & 1182 r/min	Synchronous RPM	1800 & 1200 r/min
Service Factor	1.15 & 1.15	Frame	182T
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	80 & 74 %	Ambient Temperature	40 °C
Frequency	60 & 60 Hz	Current	7-6.4 & 4-3.85 A
Power Factor	66	Duty	Continuous
Insulation Class	F	Design Code	2VT
KVA Code	M	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	22	Number of Speeds	2

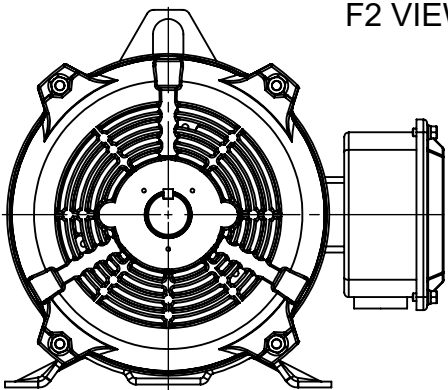
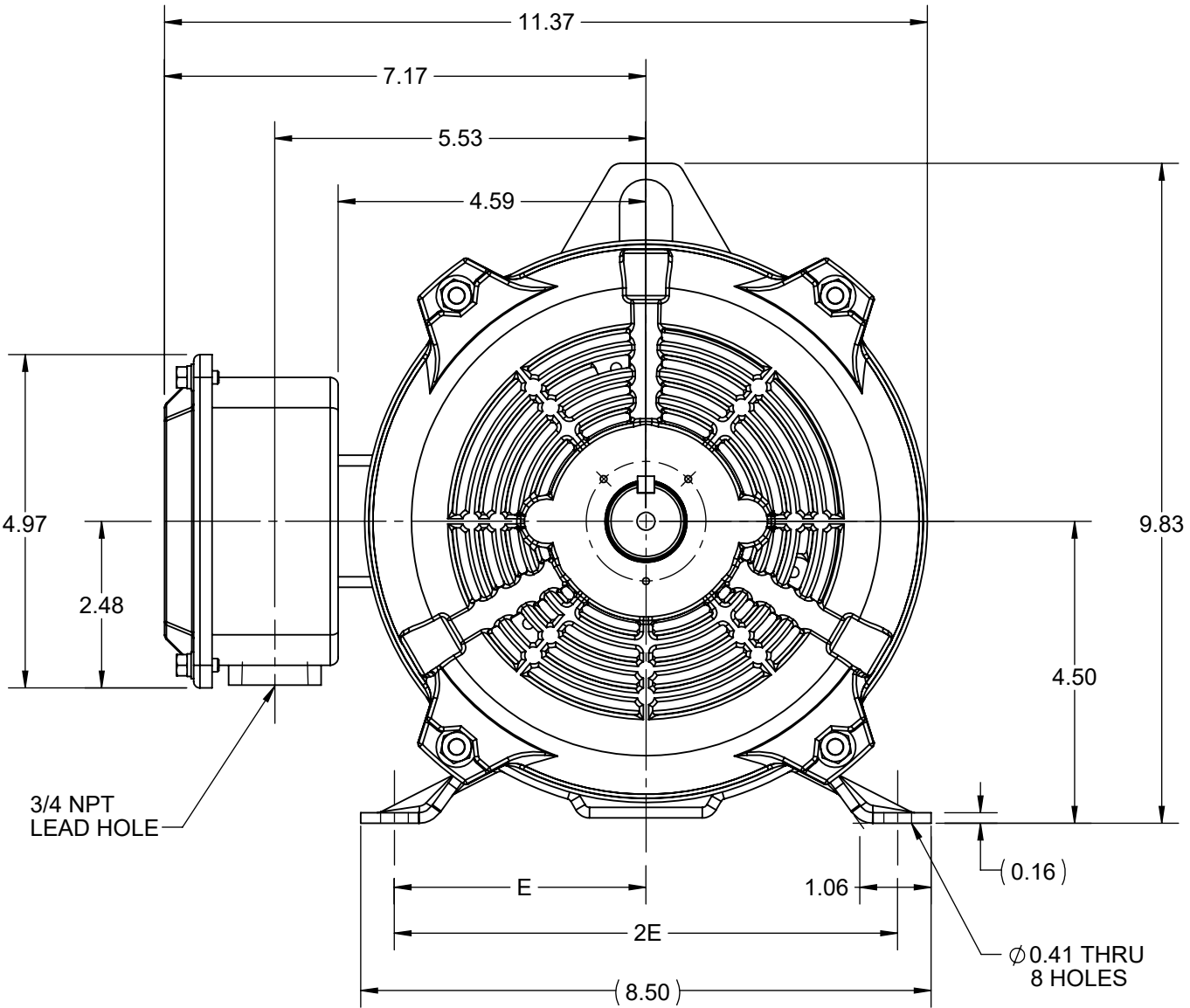
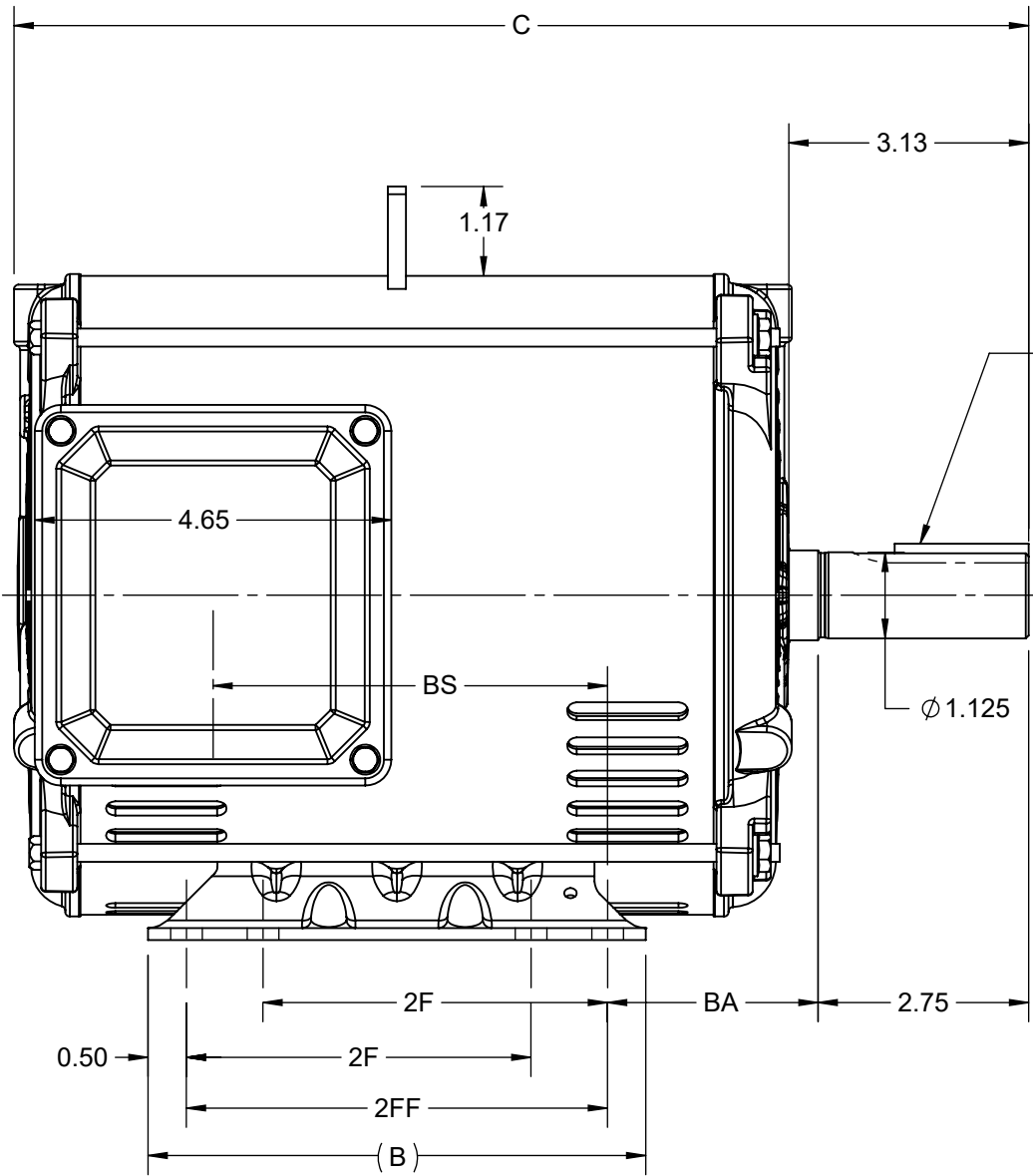
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4//6	Rotation	Reversible
Resistance Main	20.4592 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Shaft Diameter	1.125 in
Assembly/Box Mounting	F1/F2 Capable		

Drawings

Connection Drawing	EE7317	Outline Drawing	SS600198-100
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4				3				2			1
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME	
100	6.50	12.25	3.75	7.50	4.50	5.50	2.75	4.15	F1 OR F2	182T	
200		13.25						5.15		184T	

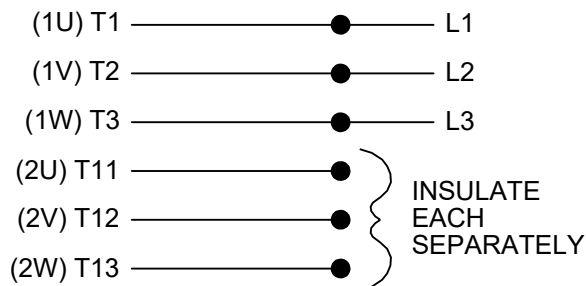


DRAWING REVISION G	REVISION BY SB	REV DATE/© DATE 08/11/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 08/11/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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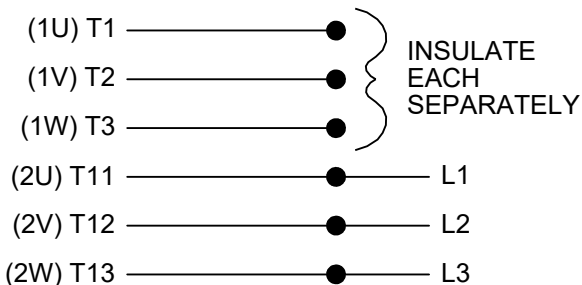
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY PRIYA		marathon™	
DATE 12/03/2018			
APPROVED BY SBD		DESCRIPTION OUTLINE 182/184T FR -NEMA-ODP RS	
DATE 12/03/2018			
REFERENCE		MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION		SIZE	DRAWING NUMBER
		B	SS600198
		SHEET	1 OF 1

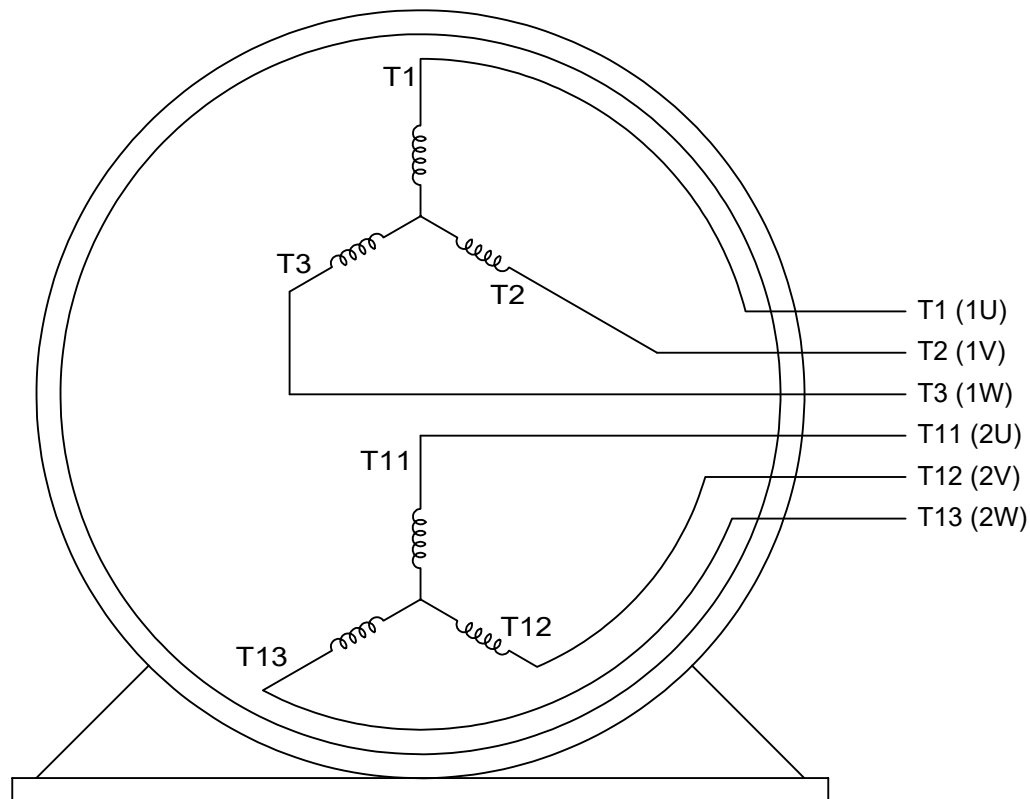
LOW SPEED



HIGHSPEED



THREE PHASE, SINGLE VOLT, 6 LEAD 2 SPEED REVERSIBLE MOTOR



VIEW OF TERMINAL END

TO REVERSE ROTATION ON
EITHER SPEED: INTERCHANGE
ANY 2 LEADS ON THE
WINDING IN USE.

DRAWING REVISION D	REVISION BY SB	REV DATE/© DATE 10/08/2025
REQUEST NUMBER CR-0024284	APPROVED BY RMS	DATE 10/08/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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DRAWN BY LZ			
DATE 01-05-1994			
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - SINGLE - 2 SPEED REVERSIBLE		
DATE 01-17-1994			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7317	SHEET 1 OF 1

Data Sheet

Date: 12/1/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



182TTDBD7413

Submittal

Data @ 230 V

Motor Load Data

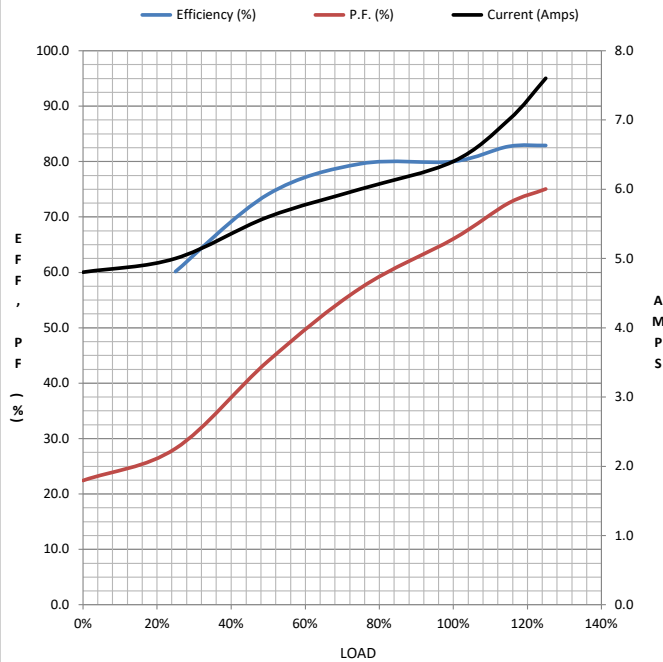
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.8	5.0	5.6	6.0	6.4	7.0	7.6	54.0	
Torque(ft-lb)	0.00	1.47	2.94	4.4	5.9	6.8	7.4	12.9	
RPM	1800	1792	1788	1782	1775	1,772	1770	0	
Efficiency (%)		60.1	74.1	79.6	80.0	82.7	82.9		
P.F. (%)	22.4	28.2	44.0	57.2	66.0	72.5	75.0	65	

Motor Speed Data

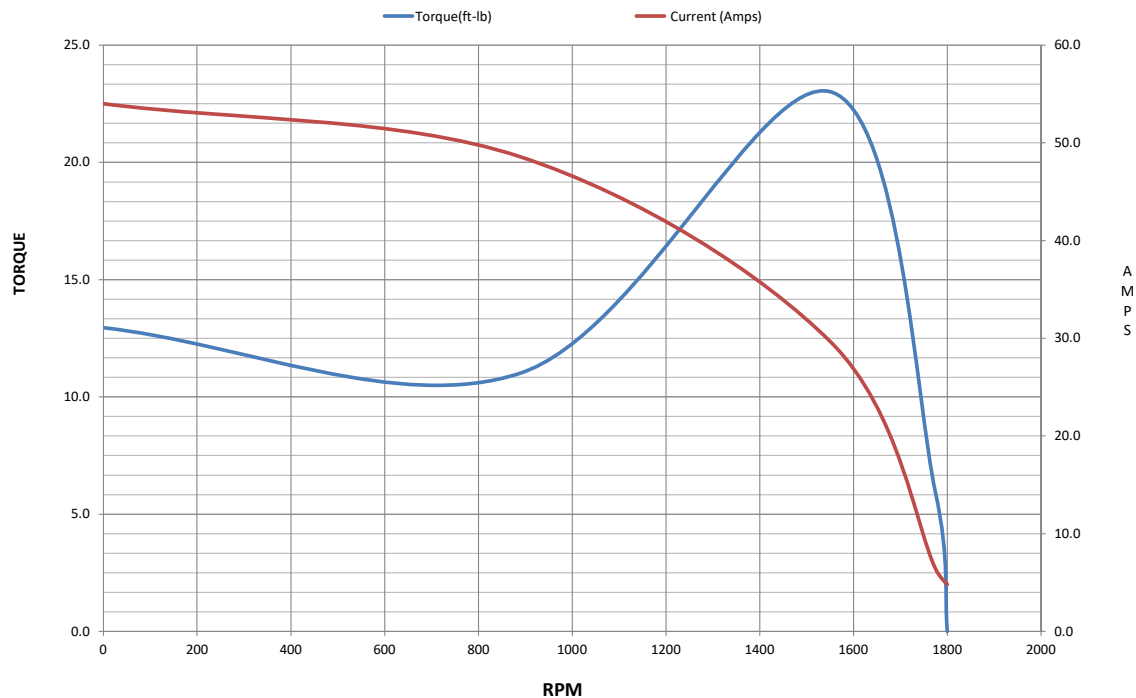
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	888	1552	1775	1800
Current (Amps)	54.0	48.6	29.6	6.4	4.8
Torque(ft-lb)	12.9	11.0	23.0	5.9	0.00

Information Block

HP	2.00			
Sync. RPM	1800			
Frame	182T			
Enclosure	DP			
Construction	TDR			
Voltage	230	V		
Frequency	60	Hz		
Design	2VT			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	70	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	HA3112(4-6)01 HS			
Sound Pressure @ 1M	0	dBA		
VFD Rating	NA			
Outline Dwg	SS600198-100			
Conn. Diag	EE7317			
Additional Specifications:				
CATALOG # Y453B				
HIGH SPEED PERFORMANCE				
NP VOLTAGE 200-230, AMPS 7-6.4				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.3189	0.3475	1.3154	1.2197	25.1872



Speed -Torque Curve



Data Sheet

Date: 12/1/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



182TTD8D7413

Submittal

Data @ 230 V

Motor Load Data

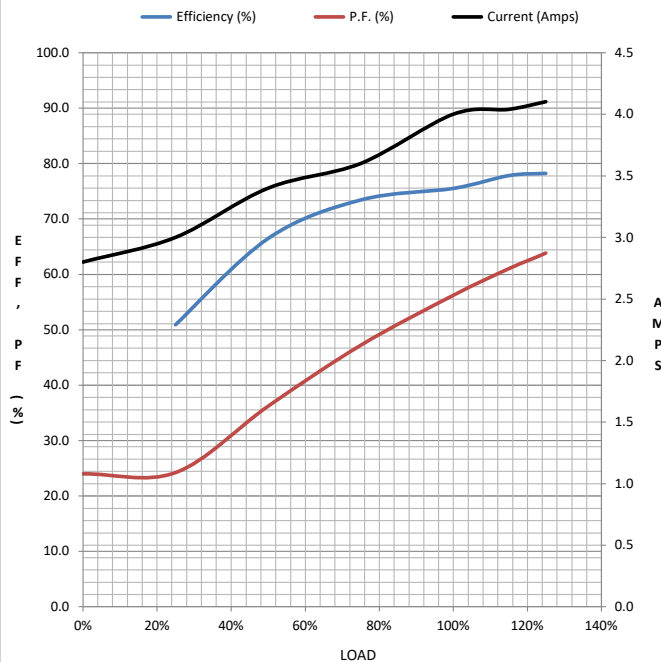
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.80	3.0	3.4	3.6	4.0	4.0	4.1	21.0	
Torque(ft-lb)	0.00	0.98	1.97	2.96	4.0	4.6	5.0	6.9	
RPM	1200	1195	1192	1185	1182	1,180	1178	0	
Efficiency (%)		50.9	66.5	73.4	75.5	77.8	78.2		
P.F. (%)	24.0	24.2	36.2	47.2	56.2	61.0	63.8	59	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	591	1040	1182	1200
Current (Amps)	21.0	18.9	12.4	4.0	2.80
Torque(ft-lb)	6.9	5.9	14.1	4.0	0.00

Information Block

HP	0.89			
Sync. RPM	1200			
Frame	182T			
Enclosure	DP			
Construction	TDR			
Voltage	230	V		
Frequency	60	Hz		
Design	2VT			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	0	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	HA3112(4-6)01 HS			
Sound Pressure @ 1M	0	dBA		
VFD Rating	NA			
Outline Dwg	SS600198-100			
Conn. Diag	EE7317			
Additional Specifications:				
CATALOG # Y453B				
LOW SPEED PERFORMANCE				
NP VOLTAGE 200-230, AMPS 4-3.85				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.0037	0.8764	2.5098	3.5535	37.6066



Speed -Torque Curve

