

Multispeed Motors

Model No: 256TTDBD7207

Catalog No: Y492A

Multispeed Motor, 15 & 3.75 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 256T Frame, DP

Product Information Packet: Model No: 256TTDBD7207, Catalog No: Y492A Multispeed Motor, 15 & 3.75 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 256T Frame, DP

Nameplate Specifications

Phase	3	Output HP	15 & 3.75 Hp
Output KW	11.2 & 2.8 kW	Voltage	460 & 460 V
Speed	1782 & 888 r/min	Synchronous RPM	1800 & 900 r/min
Service Factor	1.15 & 1.15	Frame	256T
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	91 & 87.5 %	Ambient Temperature	40 °C
Frequency	60 & 60 Hz	Current	19.8 & 7.2 A
Power Factor	76.5	Duty	Continuous
Insulation Class	F	Design Code	1VT
KVA Code	L	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	22	Number of Speeds	2

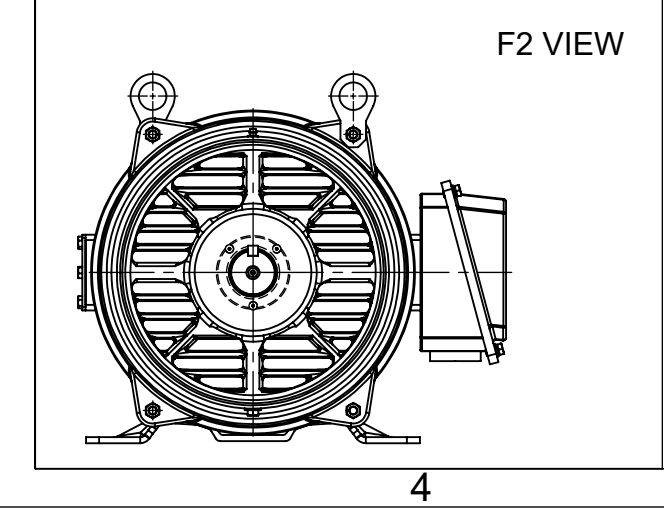
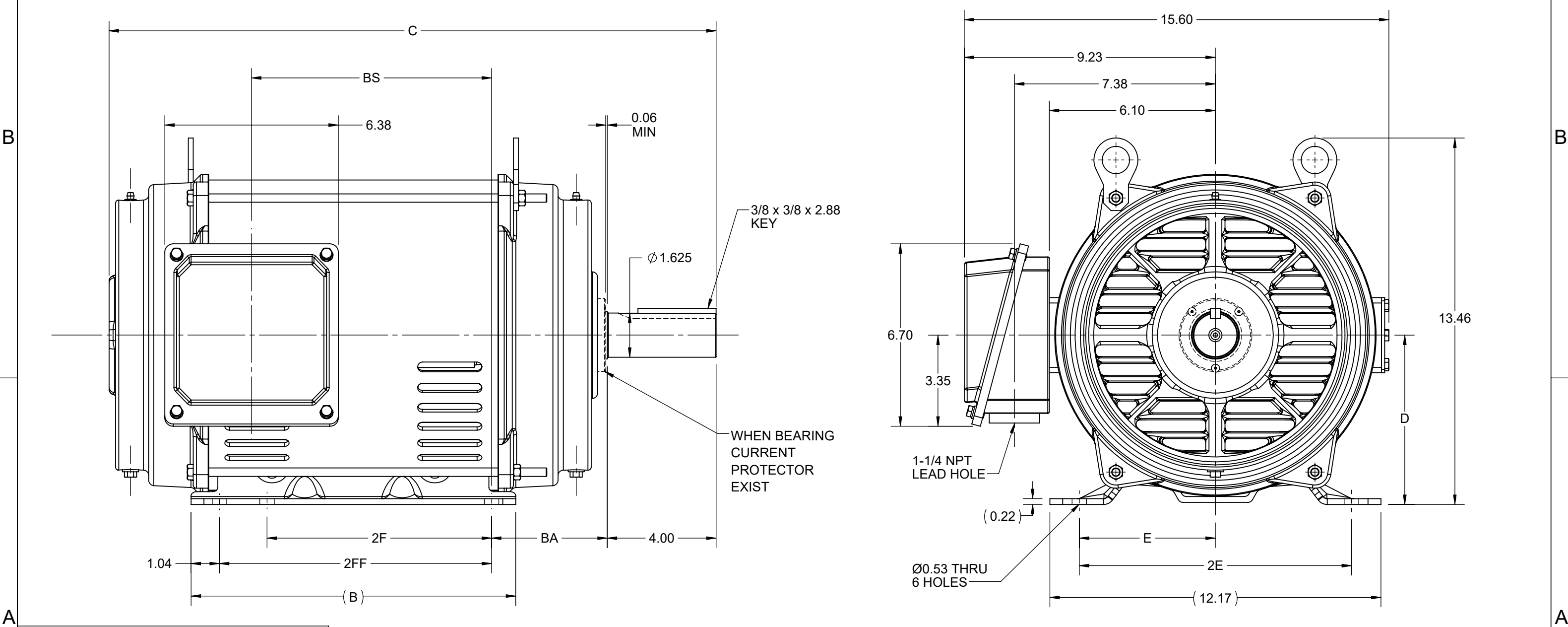
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4/8	Rotation	Reversible
Resistance Main	.5793 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	1.625 in
Assembly/Box Mounting	F1/F2 Capable		

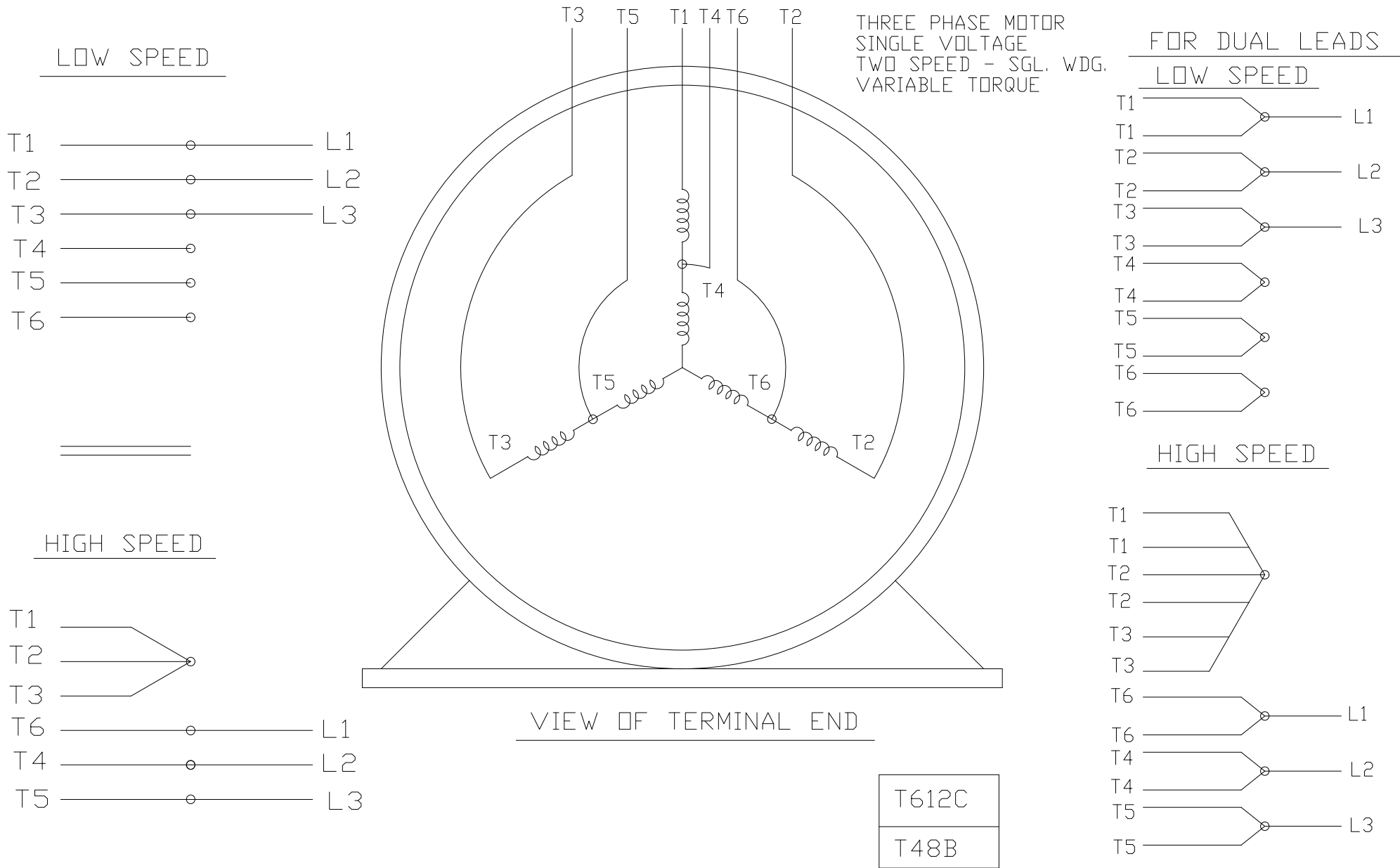
Drawings

Connection Drawing	EE7322	Outline Drawing	SS620685-200
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4				3				2				1
DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME	
100	11.93	22.31	6.25	5.00	10.00	8.25	10.00	4.25	8.82	F1 OR F2	254T	
200		23.88							10.45		256T	



DRAWING REVISION E	REVISION BY MN	REV DATE/© DATE 09/04/2025	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 mm 5.1 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY				DRAWN BY XZ	marathon™			
REQUEST NUMBER CR-0023941	APPROVED BY VS	DATE 09/04/2025					DATE 25/02/2016				
REQUEST NUMBER DESCRIPTION UPDATED DRAWING VIEW			COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.				APPROVED BY	DESCRIPTION OUTLINE 254/256T FR NEMA ODP RS			
							DATE				
							REFERENCE	MATERIAL		PROCESS/FINISH	
							THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS620685		SHEET 1 OF 1



DRAWING REVISION C	REVISION BY SB	REV DATE/ © DATE 08/20/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY PGK	marathon™			
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/20/2025		DATE 12/26/1996				
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED				APPROVED BY TB	DESCRIPTION CONN DIAGRAM 3Ø - SINGLE VOLTAGE - 2 SPEED			
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER 4 of 6EE7322	

Data Sheet

Date: 12/14/2021
 Customer: _____
 Attention: _____
 Submitted by: SHERYL KUEHMICHEL



256TTDBD7207

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.0	12.5	14.2	16.8	19.8	22.0	23.2	170	
Torque(ft-lb)	0.00	11.0	22.0	33.0	45.0	51.8	55.0	132	
RPM	1800	1795	1790	1785	1782	1,780	1778	0	
Efficiency (%)		82.6	89.4	91.0	91.0	90.9	90.8		
P.F. (%)	5.8	33.5	55.0	68.8	76.5	80.0	81.5	46	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1630	1782	1800
Current (Amps)	170	135	95.0	19.8	12.0
Torque(ft-lb)	132	110	165	45.0	0.00

Information Block

HP	15.0
Sync. RPM	1800
Frame	256T
Enclosure	DP
Construction	TDW
Voltage	460 V
Frequency	60 Hz
Design	2VT
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	50 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk ²	0.00 Lb-Ft ²
Ref Wdg	HA3160(4-8)04 HS
Sound Pressure @ 1M	66 dBA
VFD Rating	NA
Outline Dwg	SS620685-200
Conn. Diag	EE7322

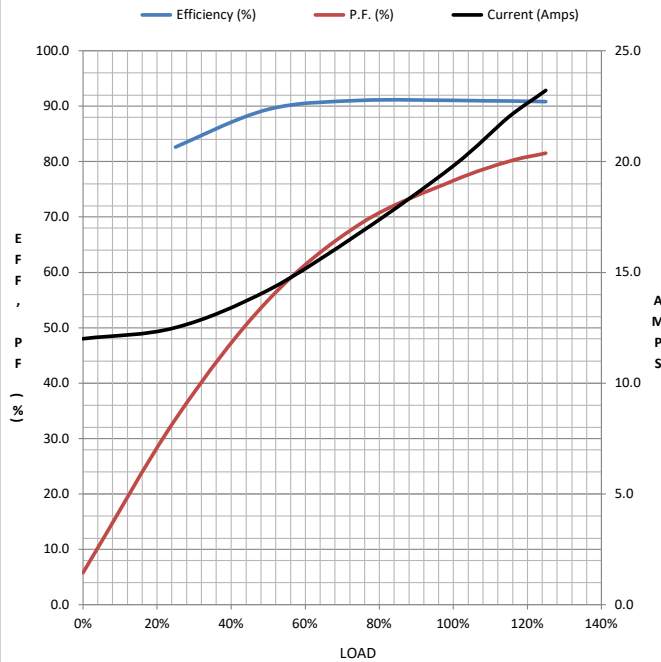
Additional Specifications:

CATALOG # Y492A

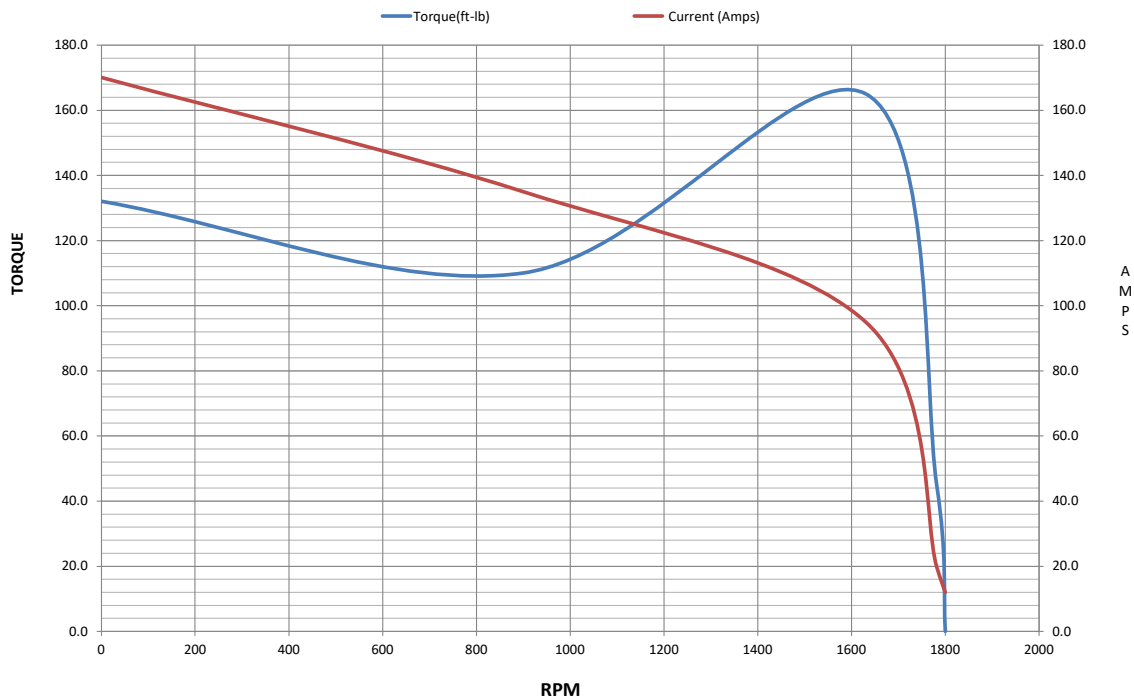
HIGH SPEED PERFORMANCE

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3725	0.1626	0.9303	1.0532	22.6700



Speed -Torque Curve



Data Sheet

Date: 12/14/2021
 Customer: _____
 Attention: _____
 Submitted by: SHERYL KUEHMICHEL



256TTDBD7207

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.5	5.8	6.0	6.5	7.2	7.8	8.2	28.0	
Torque(ft-lb)	0.00	5.5	11.0	17.0	23.0	26.5	28.0	38.0	
RPM	900	895	892	890	888	885	882	0	
Efficiency (%)		72.6	83.0	86.4	87.5	87.3	87.2		
P.F. (%)	5.5	21.0	34.8	46.2	55.0	59.0	61.2	0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	810	888	900
Current (Amps)	28.0	22.0	20.0	7.2	5.5
Torque(ft-lb)	38.0	31.5	55.0	23.0	0.00

Information Block

HP	3.8
Sync. RPM	900
Frame	256T
Enclosure	DP
Construction	TDW
Voltage	460 V
Frequency	60 Hz
Design	2VT
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	50 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	HA3160(4-8)04 HS
Sound Pressure @ 1M	62 dBA
VFD Rating	NA
Outline Dwg	SS620685-200
Conn. Diag	EE7322

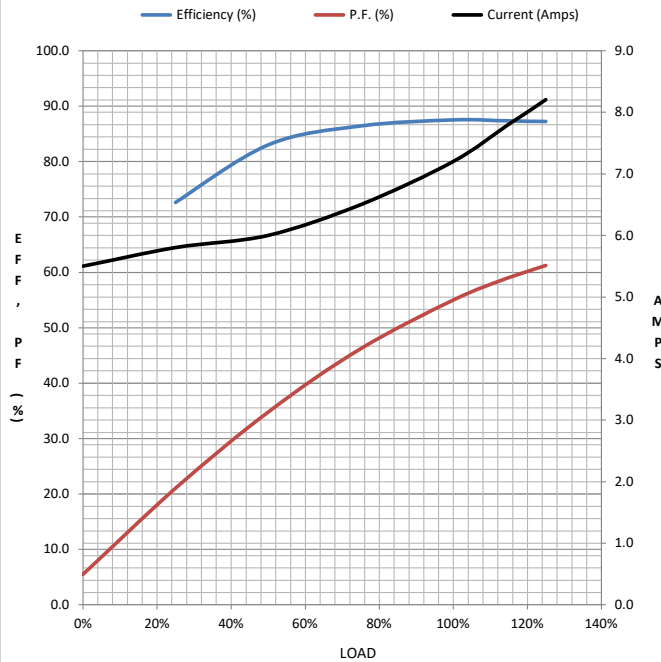
Additional Specifications:

CATALOG # Y492A

LOW SPEED PERFORMANCE

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.3993	0.8245	4.0996	6.4520	43.2579



Speed -Torque Curve

