

Multispeed Motors

Model No: 284TTDBD7221

Catalog No: Y459A

Multispeed Motor, 15 & 6.67 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 284T Frame, DP

Product Information Packet: Model No: 284TTDBD7221, Catalog No: Y459A Multispeed Motor, 15 & 6.67 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 284T Frame, DP

Nameplate Specifications

Phase	3	Output HP	15 & 6.67 Hp
Output KW	11.2 & 5.0 kW	Voltage	460 & 460 V
Speed	1780 & 1185 r/min	Synchronous RPM	1800 & 1200 r/min
Service Factor	1.15 & 1.15	Frame	284T
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	89.5 & 86.5 %	Ambient Temperature	40 °C
Frequency	60 & 60 Hz	Current	18.5 & 10 A
Power Factor	82	Duty	Continuous
Insulation Class	F	Design Code	2VT
KVA Code	H	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	22	Number of Speeds	2

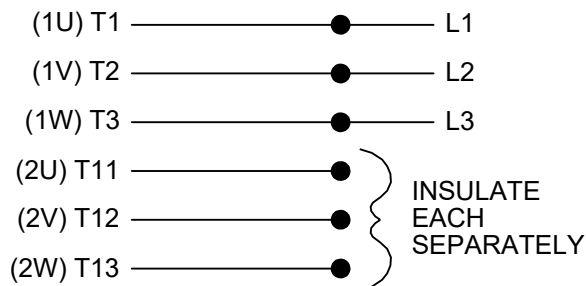
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4//6	Rotation	Reversible
Resistance Main	.8498 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	1.875 in
Assembly/Box Mounting	F1/F2 Capable		

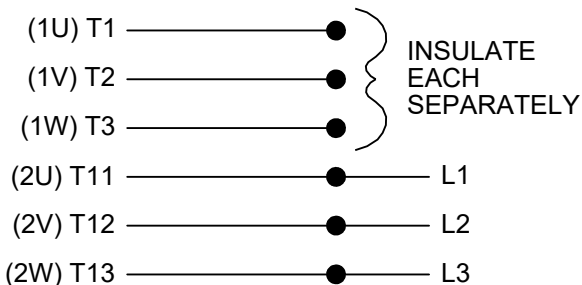
Drawings

Connection Drawing	EE7317	Outline Drawing	SS620687-100
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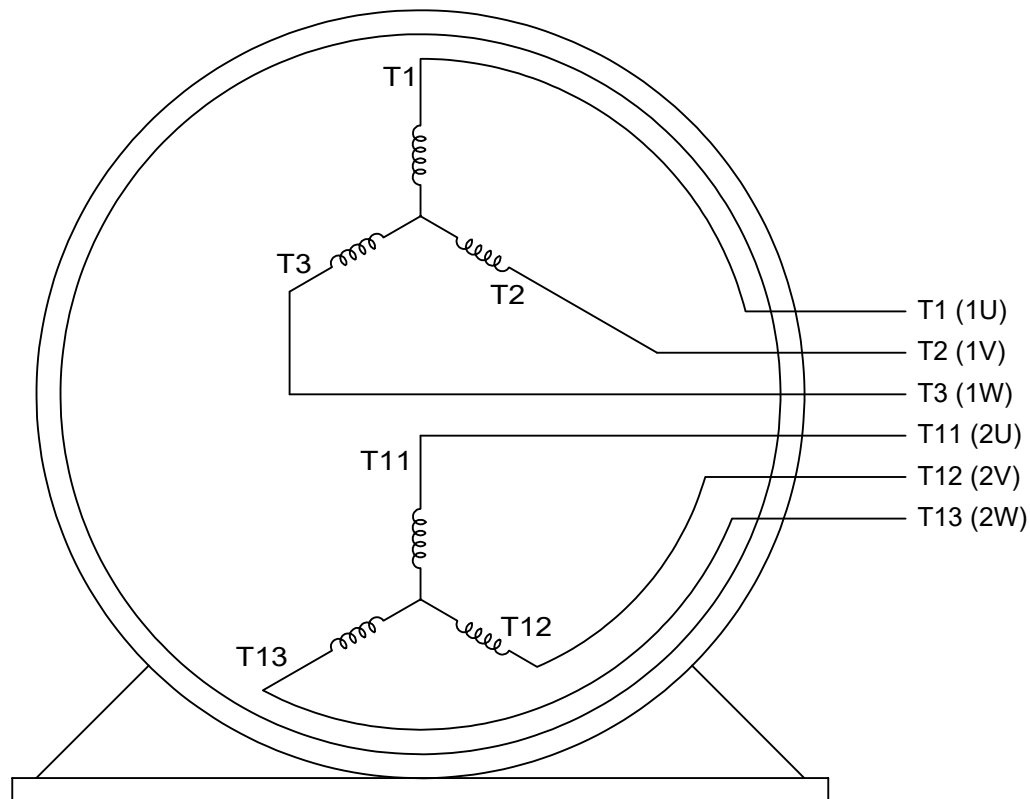
LOW SPEED



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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ARE FOR REFERENCE ONLY

DRAWN BY LZ	DATE 01-05-1994
APPROVED BY GK	DATE 01-17-1994
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-INTERNAL
3 PHASE - SINGLE - 2 SPEED REVERSIBLE

MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7317
SHEET 1 OF 1	

Data Sheet

Date: 12/15/2021
 Customer: _____
 Attention: _____
 Submitted by: SHERYL KUEHMICHEL



284TTDBD7221

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.0	9.5	12.0	15.0	18.5	21.0	22.5	126	
Torque(ft-lb)	0.00	11.0	22.0	33.0	44.0	50.6	55.5	76.0	
RPM	1800	1795	1790	1785	1780	1,775	1770	0	
Efficiency (%)		82.5	88.9	90.0	89.5	90.3	90.0		
P.F. (%)	7.5	42.5	65.0	76.5	82.0	84.5	85.5	42.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	890	1660	1780	1800
Current (Amps)	126	113	73.5	18.5	9.0
Torque(ft-lb)	76.0	64.6	126	44.0	0.00

Information Block

HP	15.0
Sync. RPM	1800
Frame	284T
Enclosure	DP
Construction	TDR
Voltage	460 V
Frequency	60 Hz
Design	2VT
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	70 °C
Duty	CONT
Ambient	40 °C
Elevation	3,300 feet
Rotor/Shaft wk ²	0.00 Lb-Ft ²
Ref Wdg	HA3180(4-6)07 HS
Sound Pressure @ 1M	65 dBA
VFD Rating	NA
Outline Dwg	SS620687-100
Conn. Diag	EE7317

Additional Specifications:

CATALOG # Y459A

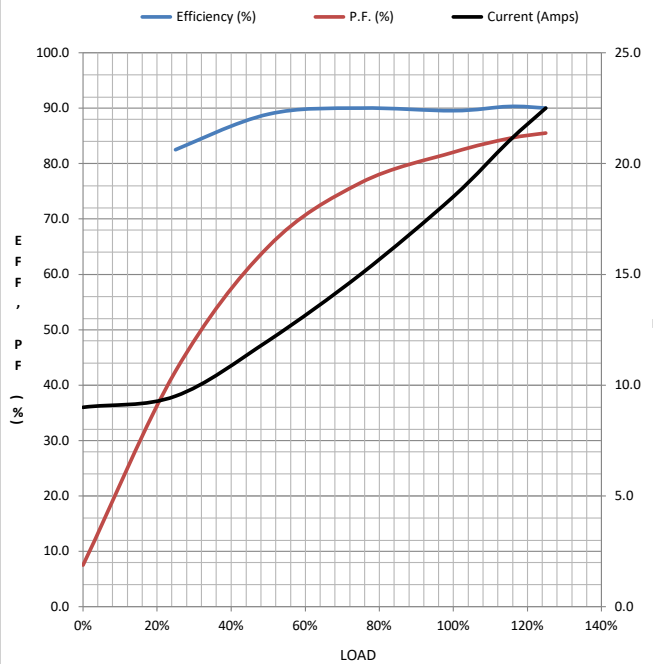
HIGH SPEED PERFORMANCE

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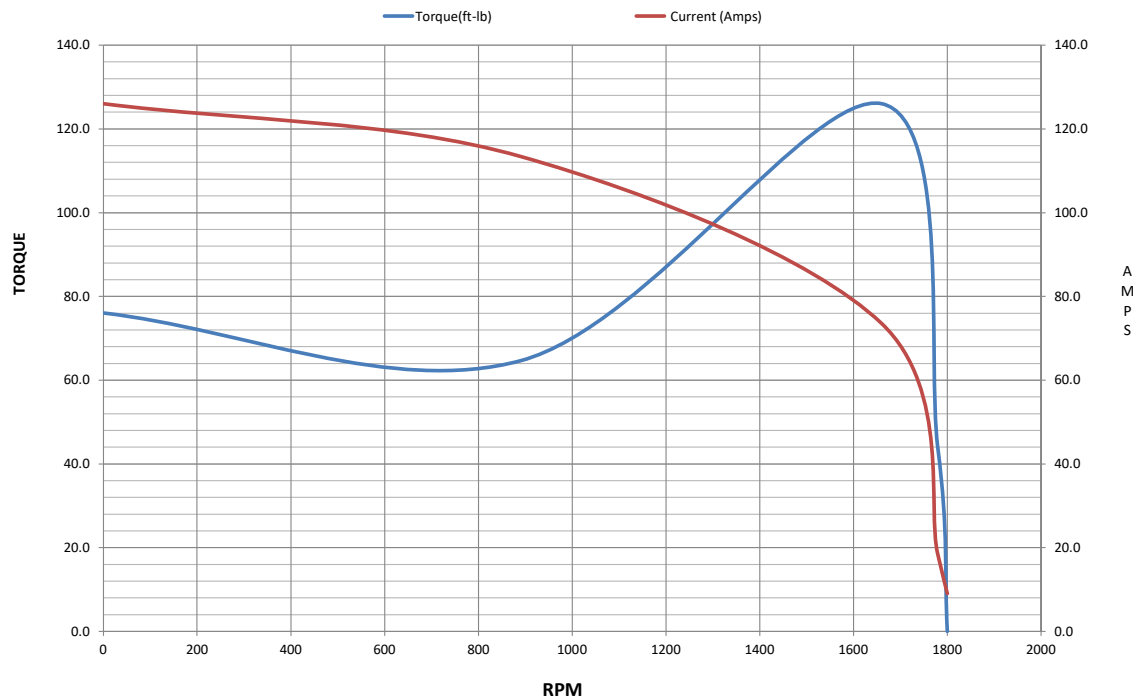
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.5313	0.1683	1.2688	1.2764	29.1388



Speed -Torque Curve



Data Sheet

Date: 12/15/2021
 Customer: _____
 Attention: _____
 Submitted by: SHERYL KUEHMICHEL



284TTDDBD7221

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.5	7.0	7.5	8.5	10.0	11.0	11.5	57.0	
Torque(ft-lb)	0.00	7.5	14.5	22.0	30.0	34.5	37.0	58.0	
RPM	1200	1195	1190	1190	1185	1,180	1180	0	
Efficiency (%)		76.0	84.6	87.0	86.5	87.8	87.6		
P.F. (%)	7.0	30.0	48.5	61.5	70.0	73.5	75.5	47	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	593	1095	1185	1200
Current (Amps)	57.0	51.3	33.5	10.0	6.5
Torque(ft-lb)	58.0	49.3	81.5	30.0	0.00

Information Block

HP	6.7
Sync. RPM	1200
Frame	284T
Enclosure	DP
Construction	TDR
Voltage	460 V
Frequency	60 Hz
Design	2VT
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	70 °C
Duty	CONT
Ambient	40 °C
Elevation	3,300 feet
Rotor/Shaft wk ²	0.00 Lb-Ft ²
Ref Wdg	HA3180(4-6)07 HS
Sound Pressure @ 1M	60 dBA
VFD Rating	NA
Outline Dwg	SS620687-100
Conn. Diag	EE7317

Additional Specifications:

CATALOG # Y459A

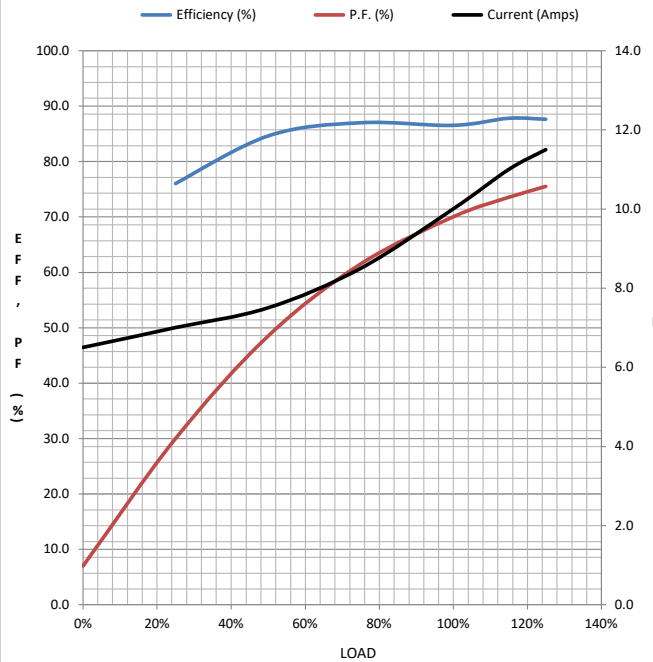
LOW SPEED PERFORMANCE

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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.3080	0.4275	2.0530	3.5134	38.3510



Speed -Torque Curve

