

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 365TSTDS16008

Catalog No: U449A

XRI® General Purpose General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 365TSC Frame, DP



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	3560 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	365TSC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.5 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	170/85 & 162/81 A	Power Factor	87
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

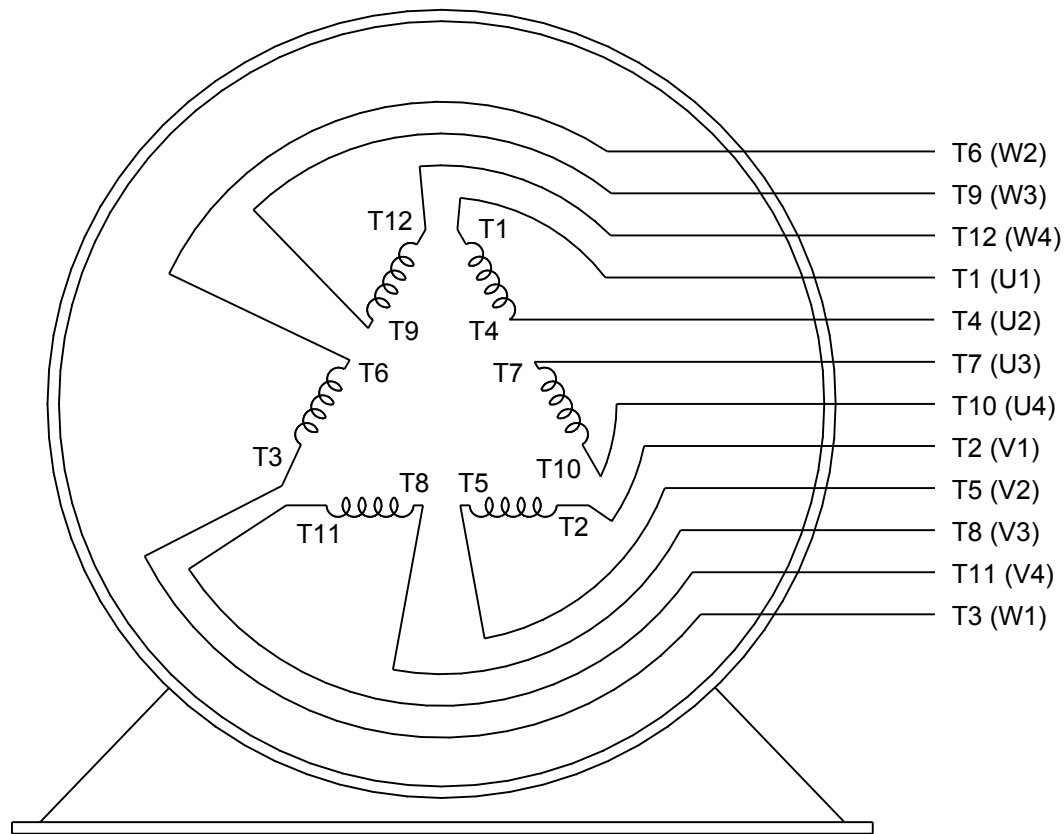
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.077 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	27.50 in
Frame Length	15.00 in	Shaft Diameter	1.875 in
Shaft Extension	3.5 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7308AA	Outline Drawing	B-SS508618-1500



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("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.		

DRAWN BY LZ	THIRD ANGLE PROJECTION
DATE 01-12-1994	
APPROVED BY GK	
DATE 01-14-1994	
REFERENCE	



Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø-2/1 DELTA-12 LEADS

MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7308AA
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 365TSTDS16008 AN
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS508618-1500

WINDING#: T364243 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75&60	56&45	3600	3560&2960	365TSC	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	170/85&162/8 1	PWS(LV ONLY) & YDRUN	CONTINUOU S	B1	1.15/1.15	40	3300

FULL LOAD EFF: 94.5&95.4	3/4 LOAD EFF: 95	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87&87	3/4 LOAD PF: 84	1/2 LOAD PF: 77	94.1	SQ CAGE IND RUN	50 / 25

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
111 LB-FT	1084 / 542	170 LB-FT 153	309 LB-FT 278	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	7.3 LB-FT^2	- LB-FT^2	15 SEC.	2	750 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further
information

INVERTER TORQUE: NONE
 INV. HP SPEED RANGE: NONE

ENCODER: NONE
 NONE NONE
 NONE NONE PPR

BRAKE: NONE NONE
 NONE P/N NONE
 NONE NONE
 - FT-LB NONE V NONE Hz

*
N
O
T
E
S
*

DATE: 06/21/2017 08:48:52 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



365TSTD516008

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.0	33.0	48.0	66.0	85.0	98.0	107	542	
Torque (ft-lb)	0.00	27.0	55.0	83.0	111	127	139	170	
RPM	3600	3590	3580	3570	3560	3,550	3545	0	
Efficiency (%)		92.4	95.0	95.0	94.5	94.5	94.1		
P.F. (%)	6.0	57.0	77.0	84.0	87.0	87.0	88.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1800	3330	3560	3600	Information Block																												
Current (Amps)	542	520	337	85.0	25.0	HP		75.0																										
Torque (ft-lb)	170	166	309	111	0.00	Sync. RPM		3600																										
— Efficiency (%) — P.F. (%) — Current (Amps) <table border="1"><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>92</td><td>57</td><td>25</td></tr><tr><td>50</td><td>95</td><td>78</td><td>45</td></tr><tr><td>75</td><td>94</td><td>85</td><td>70</td></tr><tr><td>100</td><td>93</td><td>87</td><td>90</td></tr><tr><td>125</td><td>94</td><td>88</td><td>105</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	92	57	25	50	95	78	45	75	94	85	70	100	93	87	90	125	94	88	105	Frame		364		
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	92	57	25																									
						50	95	78	45																									
						75	94	85	70																									
						100	93	87	90																									
						125	94	88	105																									
						Enclosure		DP																										
						Construction		TDS																										
						Voltage		30/460#190/381 V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		G																										
						Service Factor		1.15																										
						Temp Rise @ FL		30 ° C																										
						Duty		CONT																										
						Ambient		40 ° C																										
Elevation		1,000 feet																																
Rotor/Shaft wk²		7.3 Lb-Ft²																																
Ref Wdg		T364243 NONE																																
Sound Pressure @ 1M		80 dBA																																
VFD Rating		NONE																																
Outline Dwg		B-SS508618-1500																																
Conn. Diag		A-EE7308AA																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.0510		0.0370		0.3330		0.2880		10.5540																										

Speed -Torque Curve

