

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 365TTGS16540

Catalog No: E576A

Hazardous Duty® Explosion Proof Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 365T Frame, EPFC



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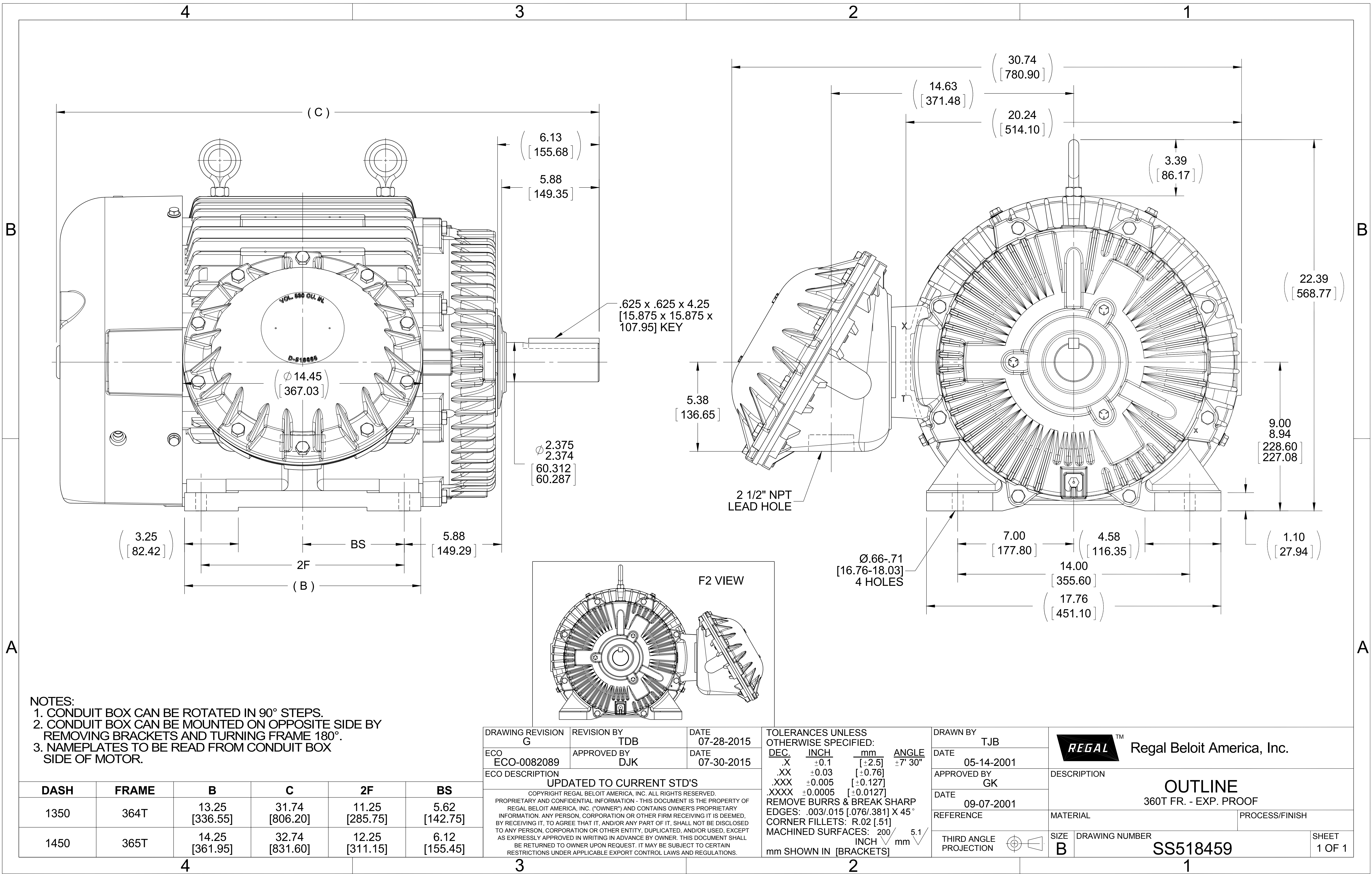
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	1782 & 1482 rpm	Service Factor	1.00 & 1.00
Frame	365T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.4 & 95 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	174/87 & 169/84.5 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	H
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.069 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	32.74 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	6.12 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	A-EE7308AD	Outline Drawing	B-SS518459-1450


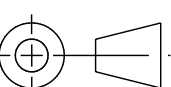


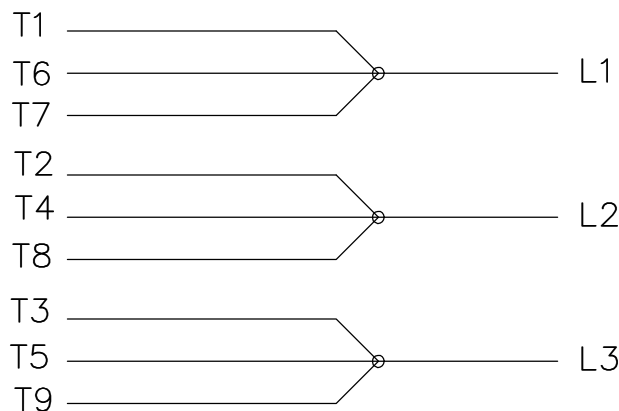
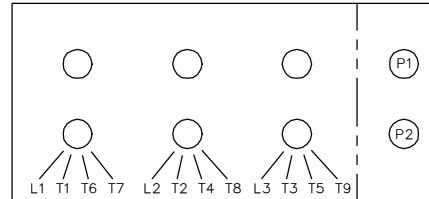
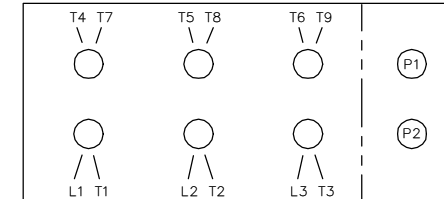
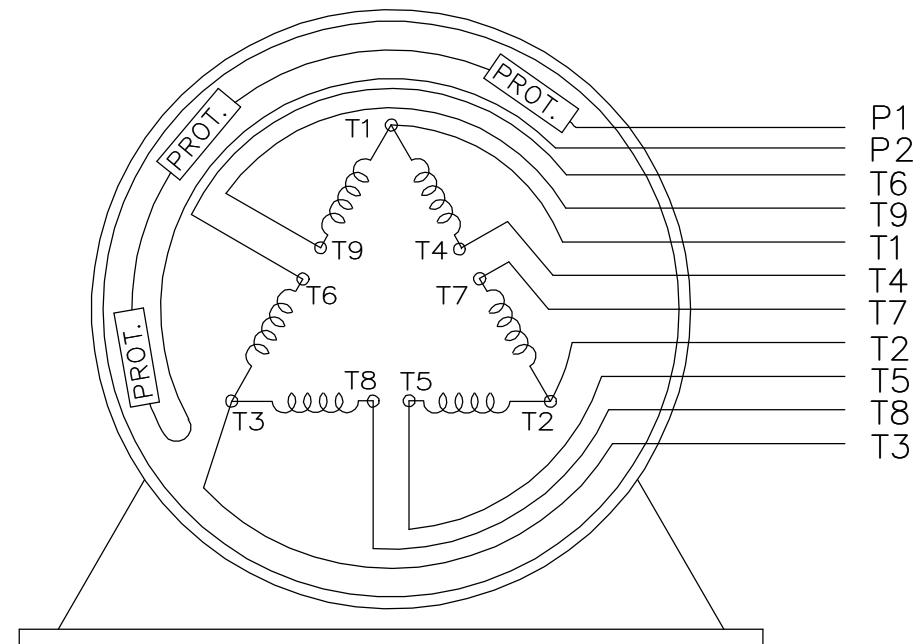
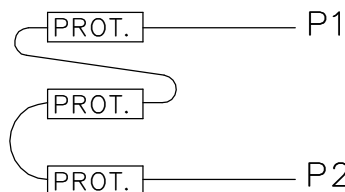
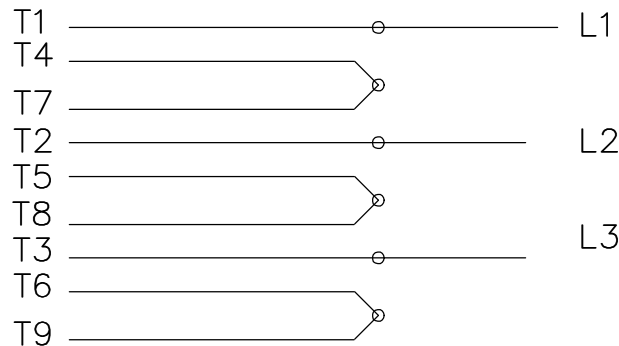
NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS
1350	364T	13.25 [336.55]	31.74 [806.20]	11.25 [285.75]	5.62 [142.75]
1450	365T	14.25 [361.95]	32.74 [831.60]	12.25 [311.15]	6.12 [155.45]



DRAWING REVISION G	REVISION BY TDB	DATE 07-28-2015
ECO ECO-0082089	APPROVED BY DJK	DATE 07-30-2015
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°			
CORNER FILLETS: R.02 [51]			
MACHINED SURFACES: 200 INCH 5.1 mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY TJB	 Regal Beloit America, Inc.		
DATE 05-14-2001			
APPROVED BY GK	DESCRIPTION OUTLINE 360T FR. - EXP. PROOF		
DATE 09-07-2001			
REFERENCE	MATERIAL		PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER SS518459	SHEET 1 OF 1

LOW VOLTAGELOW VOLTAGEHIGH VOLTAGEHIGH VOLTAGEVIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

DRAWING REVISION L	REVISION BY JP	REV DATE/© DATE 06-21-2019	TOLERANCES (EXCEPT AS NOTED): <table><tr><td>DEC.</td><td>INCH</td><td>mm</td><td>ANGLE</td></tr><tr><td>.X</td><td>±0.1</td><td>[±3]</td><td>±7° 30"</td></tr><tr><td>.XX</td><td>±0.02</td><td>[±0.5]</td><td></td></tr><tr><td>.XXX</td><td>±0.005</td><td>[±0.13]</td><td></td></tr><tr><td>.XXXX</td><td>±0.0005</td><td>[±0.013]</td><td></td></tr></table>				DEC.	INCH	mm	ANGLE	.X	±0.1	[±3]	±7° 30"	.XX	±0.02	[±0.5]		.XXX	±0.005	[±0.13]		.XXXX	±0.0005	[±0.013]		DRAWN BY MJD		<div> Regal Beloit America, Inc.</div>	
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.XXXX	±0.0005	[±0.013]																												
ECO ECO-0168744	APPROVED BY MH	DATE 06-21-2019	DATE 12-19-1997																											
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS			APPROVED BY GK				DESCRIPTION CONN DIAGRAM-EXTERNAL																							
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			mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY		THIRD ANGLE PROJECTION 		SIZE A		DRAWING NUMBER EE7308AD																					
									SHEET 1 OF 1																					

CERTIFICATION DATA SHEET

Model#: 365TTGS16540 AN
CONN. DIAGRAM: A-EE7308AD
OUTLINE: B-SS518459-1450

WINDING#: T3654203 NONE 1
ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75&60	56&45	1800	1782&1482	365T	EPFC	H	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	174/87&169/8 4.5	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84&84	3/4 LOAD PF: 81	1/2 LOAD PF: 72	95	SQ CAGE INV RATED	64 / 32

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	1300 / 650	500 LB-FT 225	625 LB-FT 282	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	18.5 LB-FT^2	500 LB-FT^2	25 SEC.	2	1050 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6314	6312	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/22/2017 03:33:49 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



365TTGS16540

Submittal

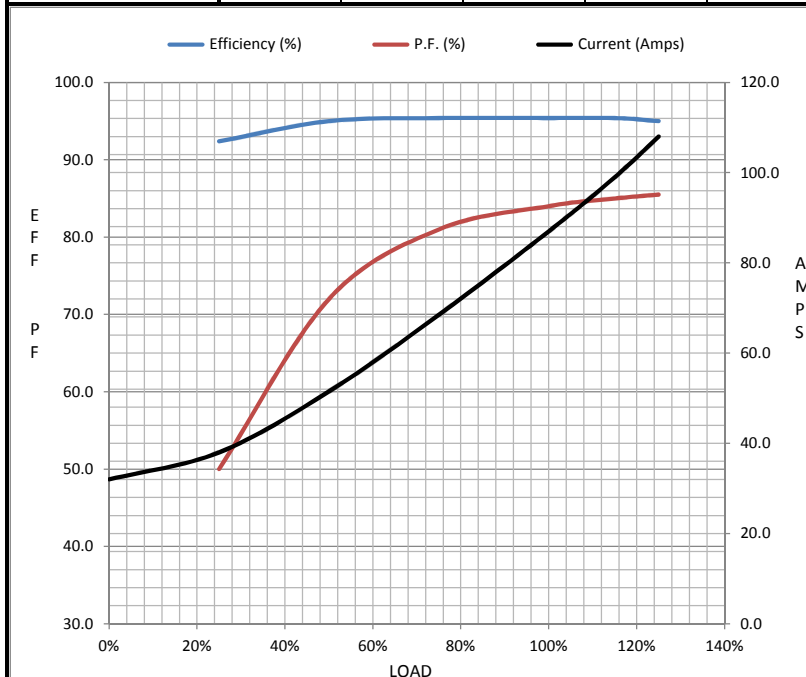
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	32.0	38.0	51.5	68.5	87.0	99.0	108	650	
Torque (ft-lb)	0.00	55.0	110	166	221	255	278	500	
RPM	1800	1795	1790	1785	1782	1,778	1775	0	
Efficiency (%)		92.4	95.0	95.4	95.4	95.4	95.0		
P.F. (%)	3.5	50.0	72.0	81.0	84.0	85.0	85.5	33.0	

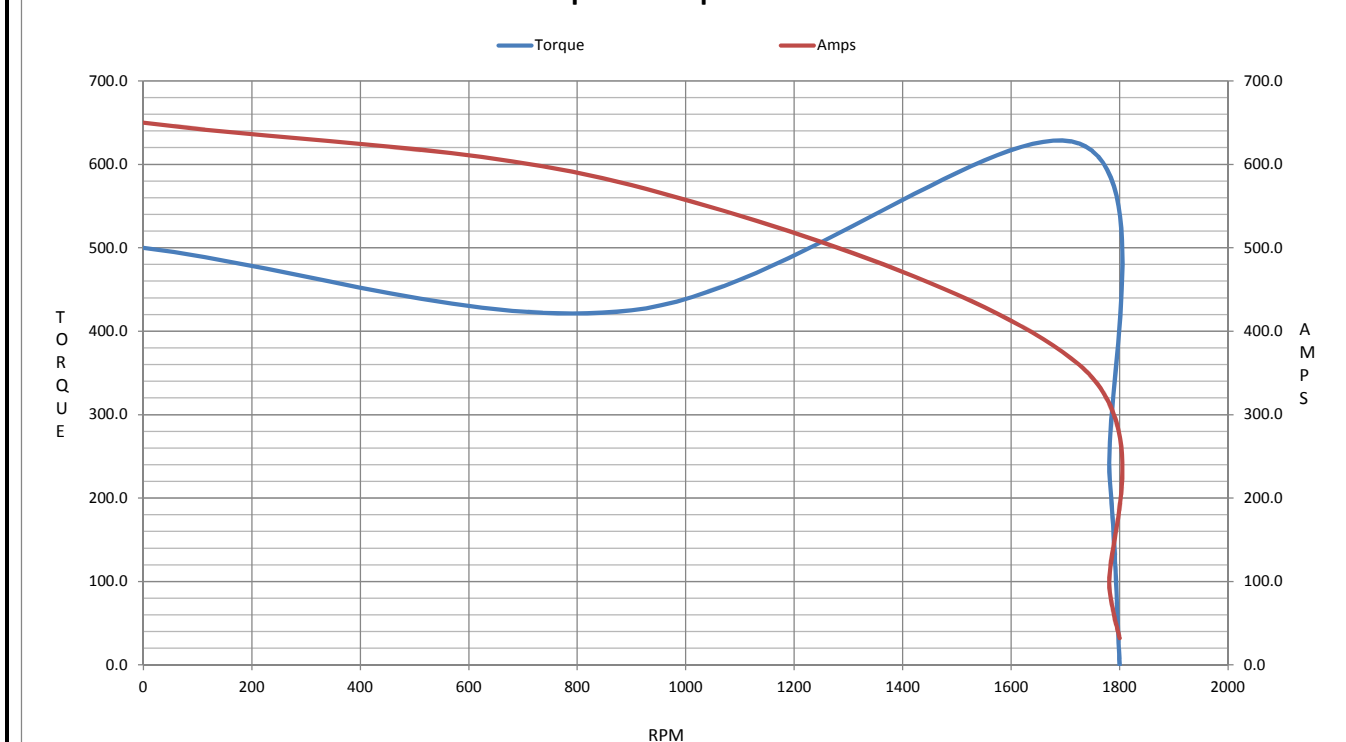
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1725	1782	1800	HP	75.0
Current (Amps)	650	575	360	87.0	32.0	Sync. RPM	1800
Torque (ft-lb)	500	425	625	221	0.00	Frame	365



Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	18.5 Lb-Ft²			
Ref Wdg	T3654203 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS518459-1450			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0510	0.0330	0.2910	0.3550	8.1840

Speed -Torque Curve



CERTIFICATE OF COMPLIANCE

Certificate Number 20220331- E12044
Report Reference E12044-19750529
Issue Date 2022-MARCH-31

Issued to: REGAL BELOIT AMERICA INC
1946 W COOK RD
FORT WAYNE IN 46818

Tradename: Marathon

**This certificate confirms that
representative samples of**

MOTORS FOR USE IN HAZARDOUS LOCATIONS
Electric motors for use in hazardous locations; Class I,
Groups C and D; Class II, Groups F and G; Inclusive of
Model Number 365TTGS16540 (may have prefix and/or
suffix characters).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division
1 Hazardous (Classified) Locations,
CSA C22.2 No. 145, Electric Motors and Generators for
Use in Hazardous (Classified) Locations

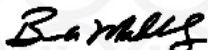
Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up
Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested
according to the current UL requirements.



Bruce Mahrenholz, Director North American Certification Program

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