PRODUCT INFORMATION PACKET

Model No: 449TTGS16557
Catalog No: H504A
Hazardous Duty® Explosion Proof Motor, 350 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, EPFC

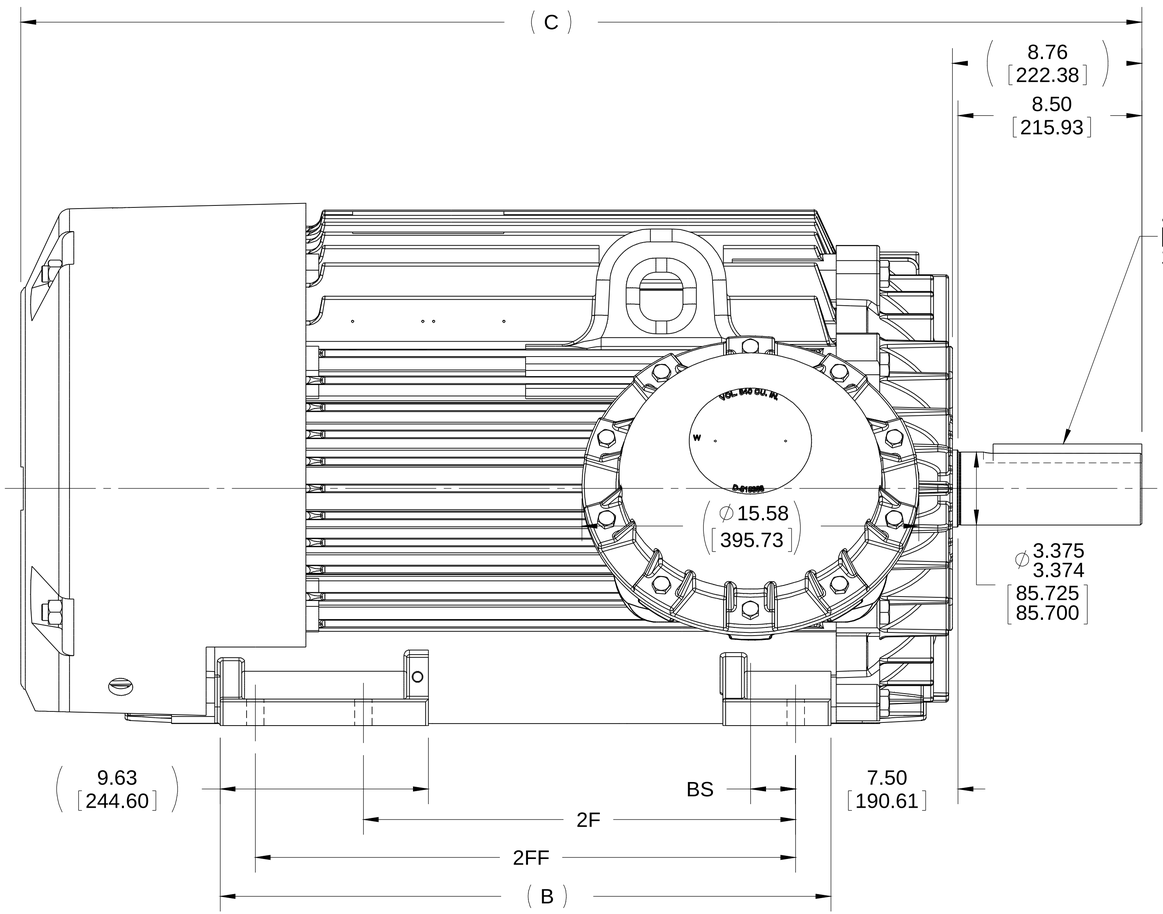
marathon® Motors

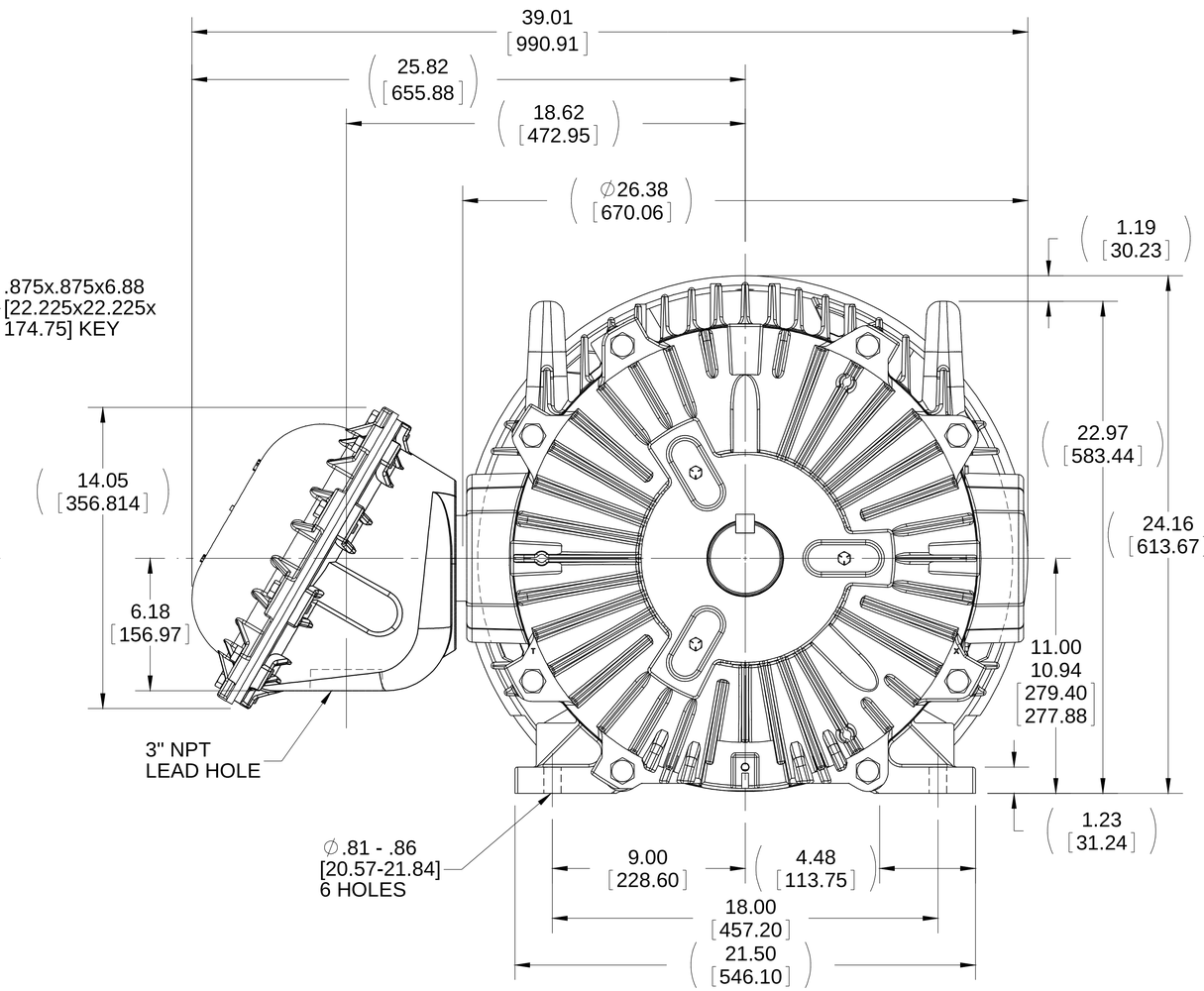
Nameplate Specifications

Phase	3	Output HP	350 Hp
Output KW	260.0 kW	Voltage	460 V
Speed	1785 rpm	Service Factor	1.00
Frame	447/449T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	96.2 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	395.0 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6318
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0075 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	51.85 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.76 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	B-SS515578-2875	Connection Drawing	A-EE7300CB





NOTES:
1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	51.85 [1316.99]	20.00 [508.00]	------	2.09 [53.09]
2875	449T	28.25 [717.55]	51.85 [1316.99]	------	25.00 [635.00]	2.09 [53.09]

DRAWING REVISION	REVISION BY	DATE
C	AJW	03-31-2015
ECO	APPROVED BY	DATE
ECO-0074730	TDB	04-01-2015

ECO DESCRIPTION
UPDATED TO CURRENT STANDARDS

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 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	SMC
DATE	04-15-1996
APPROVED BY	JPN
DATE	04-19-1996
REFERENCE	
THIRD ANGLE PROJECTION	

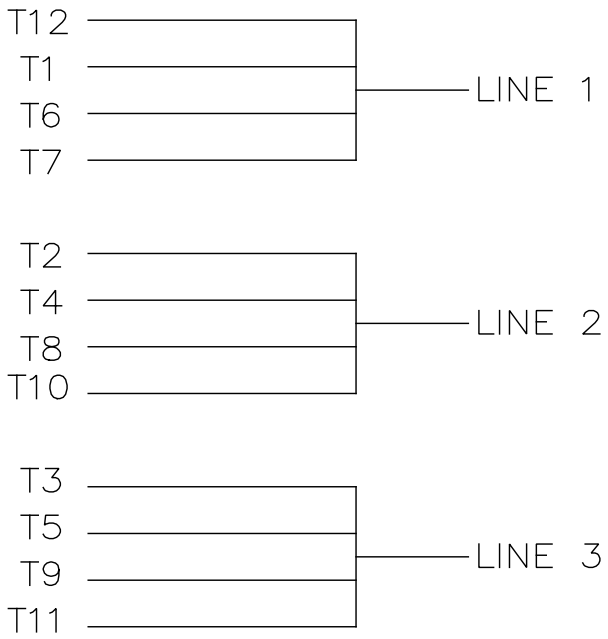
Regal Beloit America, Inc.

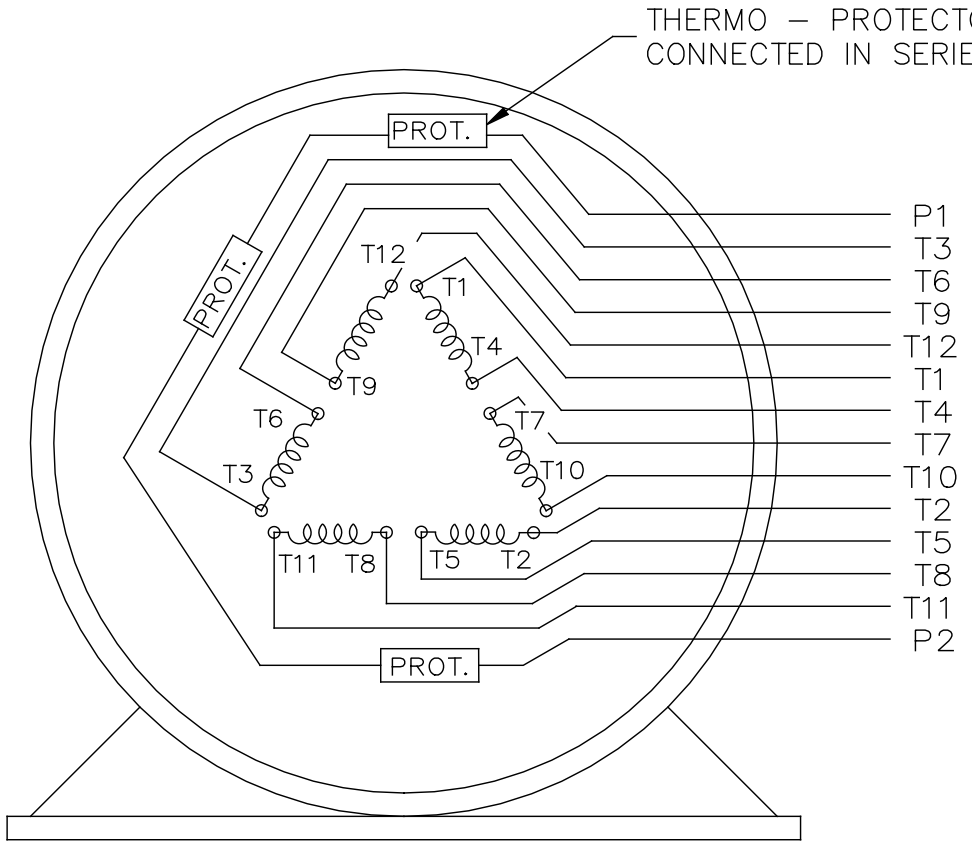
DESCRIPTION
OUTLINE
447/449T FR. -EXP. PR.- STD.

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS515578	1 OF 1

EE7300CB





VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			REGAL - BELOIT CORPORATION	DRAWN KL 02–27–2003	
				DEC.	INCHES			CHK GFH 03–03–2003	
				.X	± –			APPD JES 03–03–2003	
				.XX	± –		TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD SINGLE VOLTAGE	SCALE 1=1	
				.XXX	± –			REF	
A	CHANGED TO REGAL TITLEBLOCK ECO–0108299	WGJ 08–18–2016	EMH	.XXXX	± –		MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± –		FINISH	PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP				CAD FILE EE7300CB	SIZE A	DRAWING NO. EE7300CB PAGE OF	REV.
			DIST						

CERTIFICATION DATA SHEET

Model#:	449TTGS16557 AA	**WINDING#:**	T4494123 NONE 1
CONN. DIAGRAM:	A-EE7300CB	**ASSEMBLY:**	F1 ONLY
OUTLINE:	B-SS515578-2875		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
350	260	1800	1785	447/449T	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	395	PWS & YDRUN OR INV	CONTINUOUS	F1	1.0	40	3300

FULL LOAD EFF: 96.2	3/4 LOAD EFF: 96.2	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5	3/4 LOAD PF: 84	1/2 LOAD PF: 77.5	95.8	SQ CAGE INV RATED	115

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1030 LB-FT	2550	2075 LB-FT 201	2400 LB-FT 233	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	98 LB-FT^2	2900 LB-FT^2	25 SEC.	1	3100 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						
ROLLER NU319	BALL 6318	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

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE NONE
NONE NONE PPR

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

* NOTES *

DATE: 06/21/2017 07:28:17 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/19/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

449TTGS16557

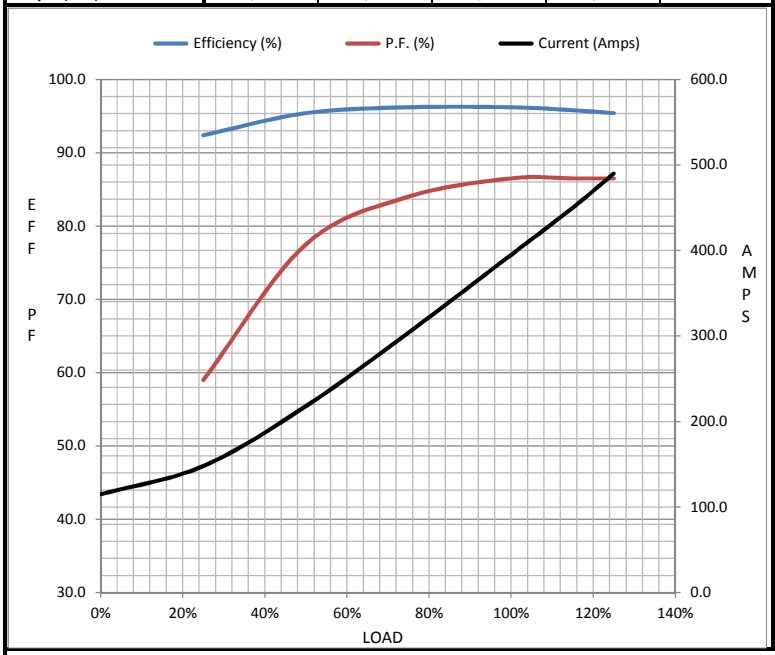
Submittal
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	115	148	218	304	395	450	490	2,550	
Torque (ft-lb)	0.00	256	512	770	1,030	1,185	1,290	2,075	
RPM	1800	1796	1794	1790	1785	1,782	1780	0	
Efficiency (%)		92.4	95.4	96.2	96.2	95.8	95.4		
P.F. (%)	5.5	59.0	77.5	84.0	86.5	86.5	86.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	2,550	2,250	1,350	395	115
Torque (ft-lb)	2,075	1,950	2,400	1,030	0.00



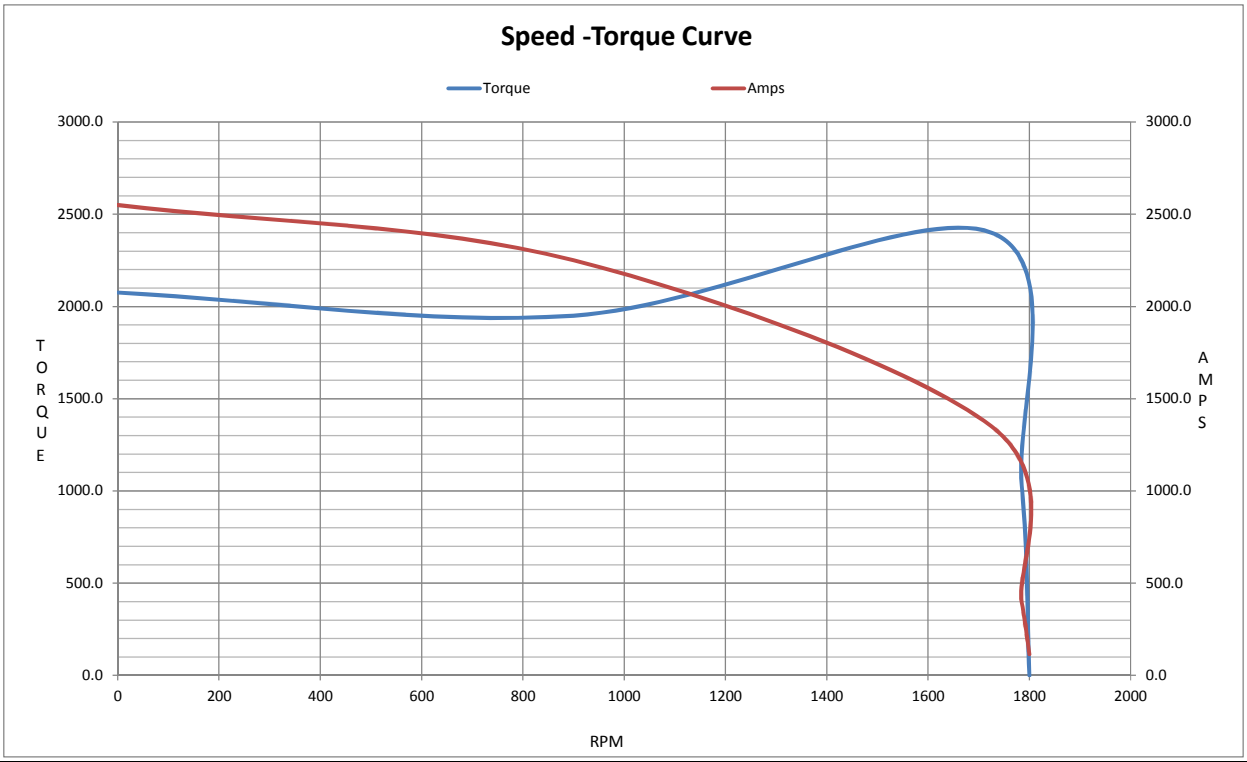
Information Block

HP	350.0	
Sync. RPM	1800	
Frame	449	
Enclosure	TEFC	
Construction	TFN	
Voltage	460	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	80	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	98.0	Lb-Ft²
Ref Wdg	T4494123 NONE	
Sound Pressure @ 1M	85	dBA
VFD Rating	CONSTANT 2:1	
Outline Dwg	B-SS515578-2875	
Conn. Diag	A-EE7300CB	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0070	0.0050	0.0660	0.1000	2.3110

Speed -Torque Curve



CERTIFICATE OF COMPLIANCE

Certificate Number	20220524- E12044
Report Reference	E12044-19970314
Issue Date	2022-MAY-24

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 449TTGS16557 (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

UL LLC