

PRODUCT INFORMATION PACKET

Model No: 213TTGCD6505

Catalog No: C374

Hazardous Duty® Explosion Proof Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 213TC Frame, EPFC



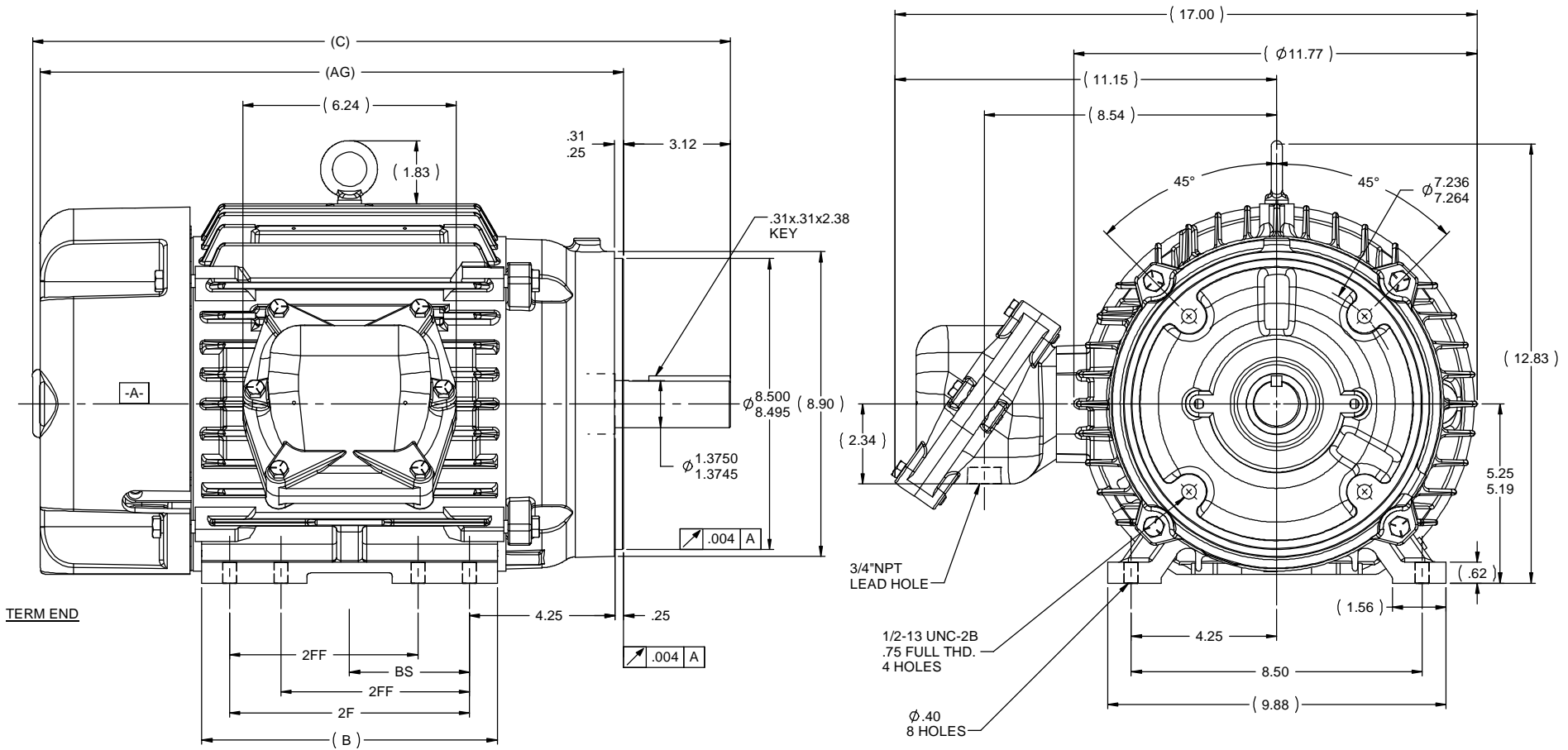
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3520 & 2935 rpm	Service Factor	1.00 & 1.00
Frame	213TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	89.5 & 87.2 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	18/9 & 15.2/7.6 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
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	2	Rotation	Reversible
Resistance Main	1.661 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.125 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Outline Drawing	037702-912	Connection Drawing	EE7308T

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TERM END

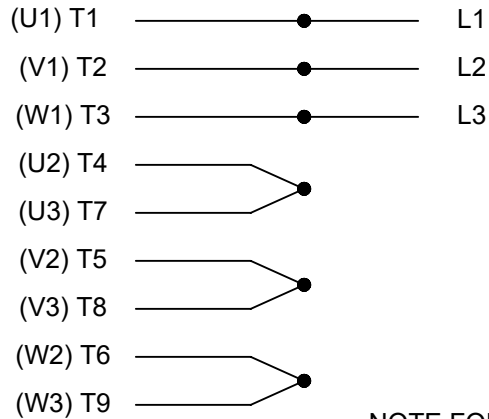
NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS, REBUILT FOR USE IN HAZARDOUS LOCATION".
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

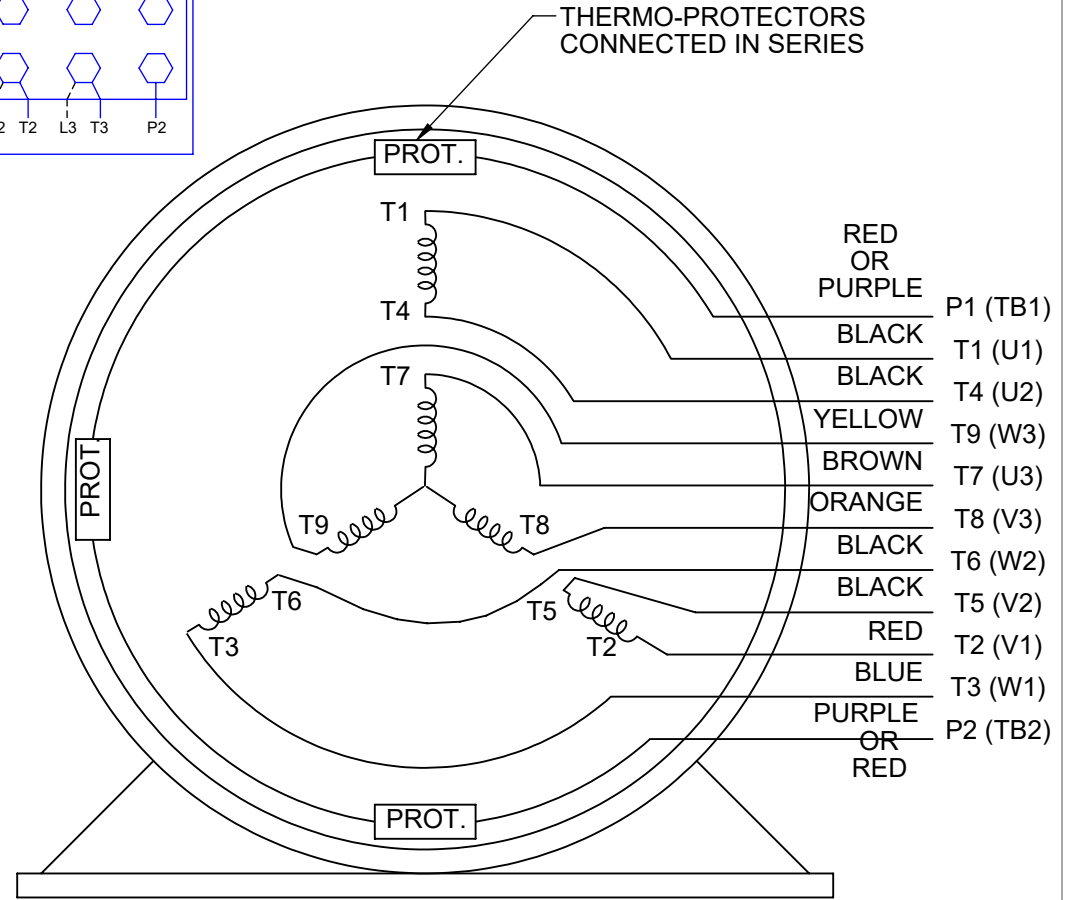
1212	213/215	23.45	11.76	10	7	5	20.11
912	213/215	20.45	8.63	7	5.5	3.5	17.11
DASH	FRAME	C	B	2F	2FF	BS	AG

		TOLERANCES UNLESS SPECIFIED		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN PN 9/2/2010		
		DEC INCHES						CHK AK 9/2/2010		
		.X ±.1						APPR		
		.XX ±.02				TITLE OUTLINE		SCALE 1:4		
		.XXX ±.005				210.FR - EPFC		REF 037660		
01	UPDATED PER IS12-0462	GR	2/14/2012	PN	XXXX ±.0005	MATL		FMF		
NO	REVISION	BY & DATE	CHK	ANG	±7.30"	FINISH		PREV		
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HIGH VOLTAGE

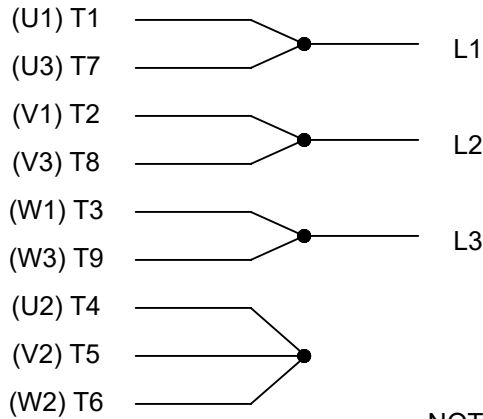


**THREE PHASE
DUAL VOLTAGE MOTOR**



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.	
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992		
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR	
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			



P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
 ORDER #: _____
 CONN. DIAGRAM: EE7308T
 OUTLINE: 035673-800
 WINDING: HA31322011 NONE 2
 SPEED: _____

CUSTOMER P.O. #: _____
 REFERENCE MODEL #: 213TTGCD6505
 CAT #: C374
 CUSTOMER PART #: _____
 MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	3600	3520	213TC	EPFC	TFB	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	18.4/9.2&15/7.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	90.3	3/4 LD EFF	89.9	1/2 LD EFF	86.9	GTD EFF	ELECT. TYPE
F.L. PF	84.6	3/4 LD PF	81.9	1/2 LD PF	73.0	88.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
11.2 LB-FT	60.0	23.0 LB-FT	205%	34.0 LB-FT 304%

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
72 dBA	81 dBA		0.50 LB-FT ²	12 LB-FT ²	20 SEC.	2	146	LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	PROOF CL I GR CD CL II	NO	NONE	BLUE - RAL 5003 (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6207	6206						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (NIC)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
1.036	0.662	2.884	1.652	75.373	0.080	ODE

NOTES	INVERTER TORQUE: CONSTANT 10:1/VARIABLE 10:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE PPR					

PREPARED BY: _____	BRAKE: NONE
DATE: 10/29/2021	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV. 4 2/27/06	UL: NO LETTER - ALL BRANDS-UL LISTED AND CSA CERTIFIED DIV. 1 XP MOTORS

Data Sheet

Date: 10/29/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



213TTGCD6505

Submittal

Data @ 460 V

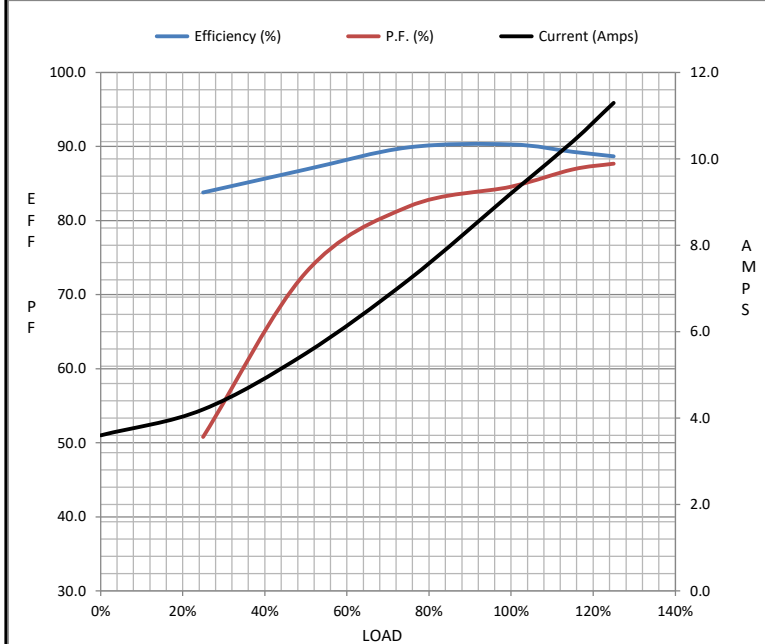
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.6	4.2	5.5	7.2	9.2	10.4	11.3	60.0
Torque (ft-lb)	0.00	2.80	5.5	8.4	11.2	12.9	14.1	23.0
RPM	3600	3580	3560	3542	3520	3,508	3498	0
Efficiency (%)		83.8	86.9	89.9	90.3	89.3	88.7	
P.F. (%)	12.2	50.8	73.0	81.9	84.6	86.9	87.7	44.0

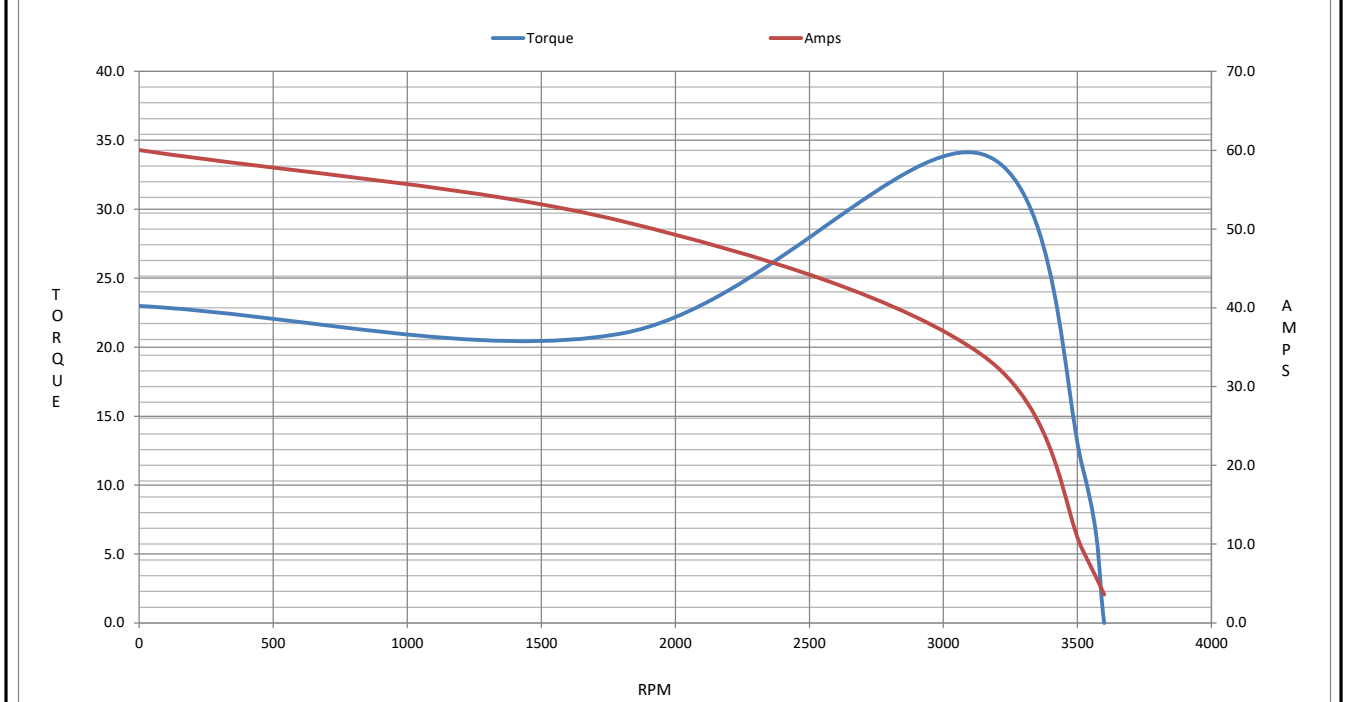
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3145	3520	3600
Current (Amps)	60.0	51.0	34.0	9.2	3.6
Torque (ft-lb)	23.0	21.0	34.0	11.2	0.00

Information Block				
HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	EPFC			
Construction	TFB			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	0.50 Lb-F ²			
Ref Wdg	HA31322011 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 10:1/VARIABLE 10:1			
Outline Dwg	035673-800			
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0360	0.6620	2.8840	1.6520	75.3730



Speed - Torque Curve



CERTIFICATE OF COMPLIANCE

Certificate Number 20220222- E12044
Report Reference E12044-20090313
Issue Date 2022-FEBRUARY-22

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 213TTGCD6505 (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

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