

# PRODUCT INFORMATION PACKET

Model No: 254TTGN16524

Catalog No: C307B

15 HP Explosion Proof Motor, 3 phase, 3600 RPM, 230/460 V, 254TC Frame, EPFC  
Explosion Proof NEMA Motors



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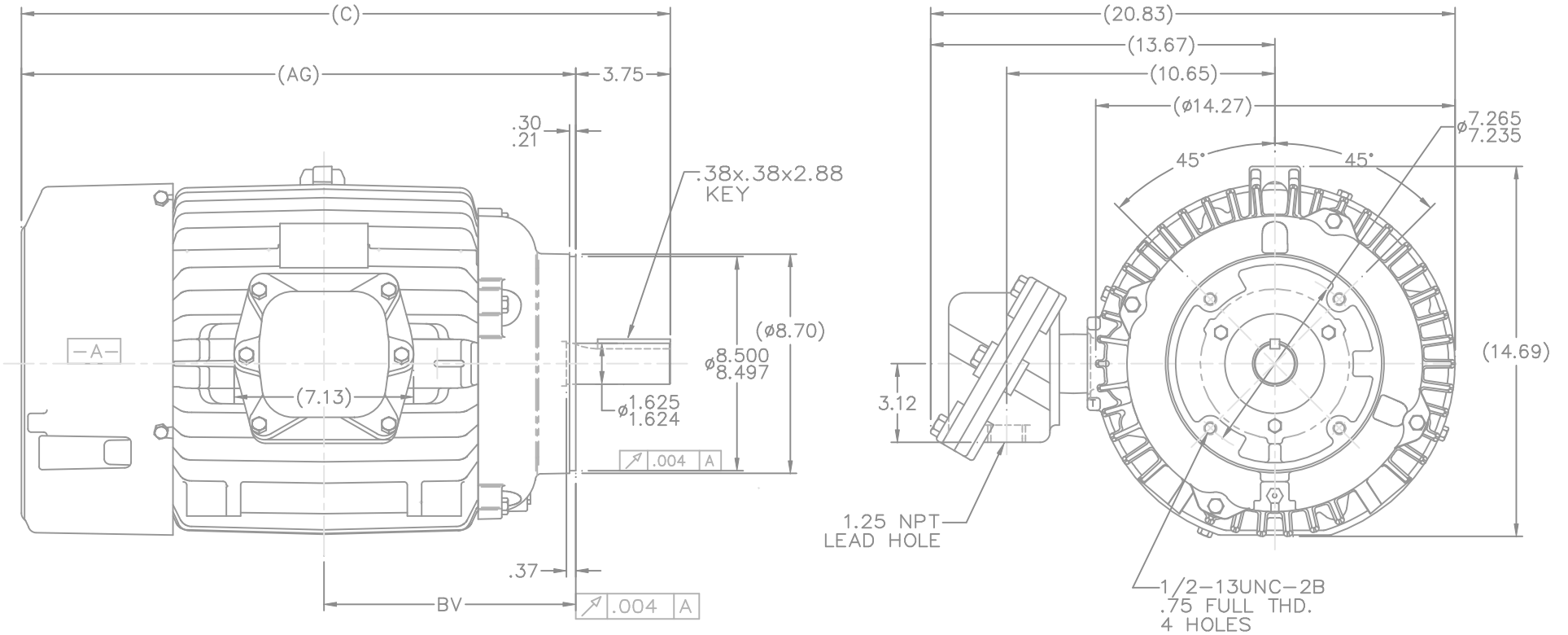
**REGAL**

### Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	36.0/18.0 A	Speed	3535 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	254TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.66 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	25.77 in
Frame Length	12.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS207446-1225	Connection Drawing	A-EE7308T



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

DASH	FRAME	C	AG	BV
1225	254-6TC	25.77	22.02	10.00

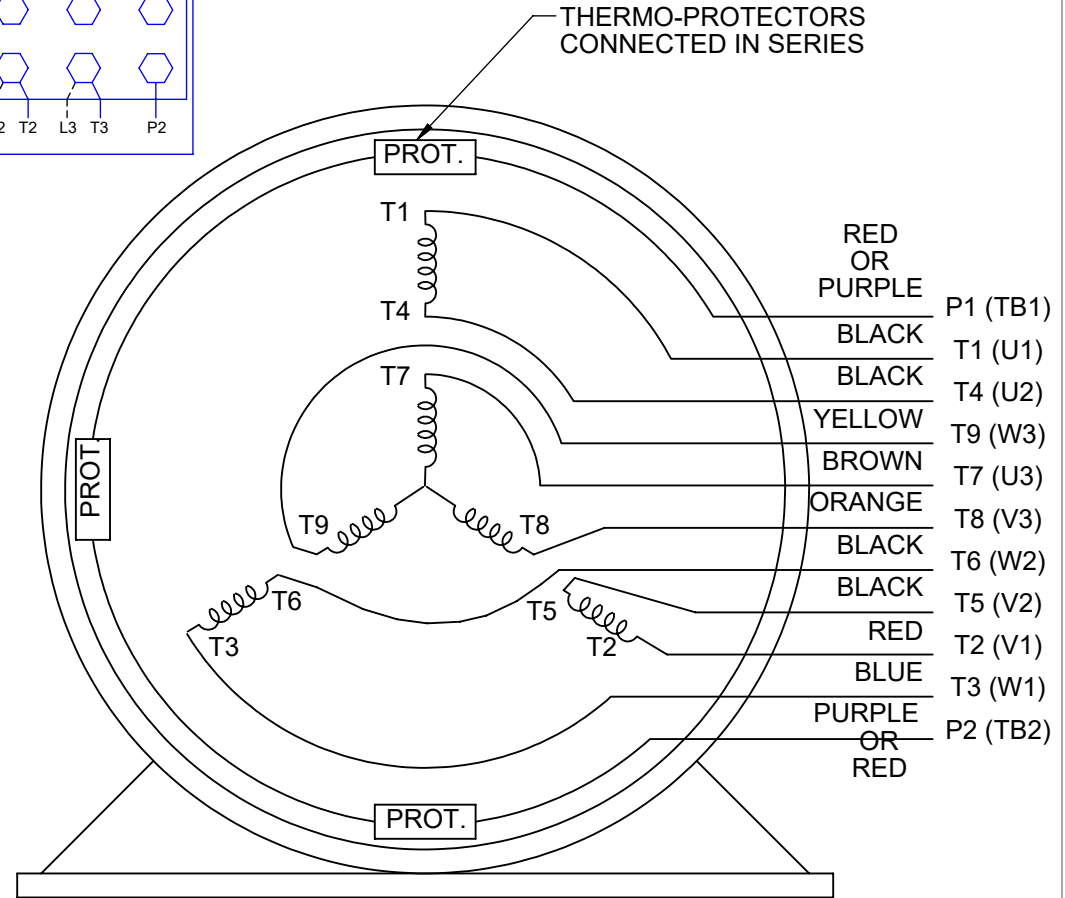
		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN MH 02-05-1998	
		DEC.	INCHES			CHK	ML 02-06-1998
		.X	±.1			APPD	TB 02-06-1998
		.XX	±.03	TITLE OUTLINE		SCALE	1=4
2 REDRAWN IN AUTOCAD		RWR	09-27-2004	254-6TC FR. -EXP. PR. - 'C' FACE		REF	
1 NEW DRAWING MU18309		MH	02-06-1998	MAT'L		FMF	
NO. REVISION		BY & DATE		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	02-06-1998	CAD FILE	ss207446
				DIST	LB	SIZE	DRAWING NO. PAGE 1 OF 1 REV.
						B	SS207446 2

**HIGH VOLTAGE**



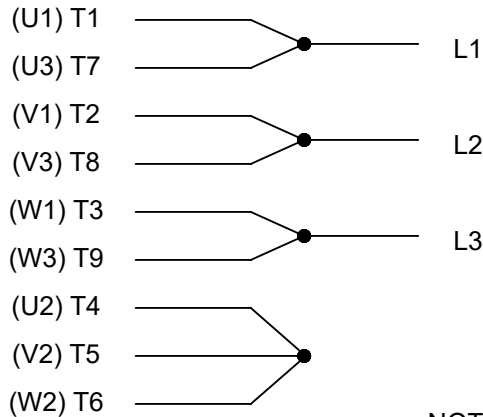
**THREE PHASE  
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS  
CONNECTED IN SERIES



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 <b>ADDED TERMINAL CONNECTION DIAGRAM</b>				APPROVED BY TB	DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T



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

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
 ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 254TTGN16524  
 CONN. DIAGRAM: A-EE7308T CAT #: \_\_\_\_\_  
 B-SS207446-1225 C307B  
 OUTLINE: \_\_\_\_\_ CUSTOMER PART #: \_\_\_\_\_  
 WINDING: K254296 NONE 6 MOUNTING: F1 ONLY  
 SPEED: \_\_\_\_\_

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNCRPM	FLRPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
15	11.2	3600	3535	254TC	TEFC	TEN	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	36/188/30/15	LINE OR INVERTER	CONT	F	1.15	40	3300
	F.L. EFF	91.0	3/4 LD EFF	90.2	1/2 LD EFF	88.5	GTD EFF	ELECT. TYPE	
	F.L. PF	86.0	3/4 LD PF	82.0	1/2 LD PF	73.0	90.2	SO CAGE INV BATED	
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
22.2 LB-FT	116	38.0 LB-FT	171%	62.0 LB-FT	279%	65			
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	START/SHOUR	MOTOR WGT			
72 DBA	81 DBA	1.10 LB-FT <sup>2</sup>	22 LB-FT <sup>2</sup>	20 SEC.	2	290 LB.			

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	UM SEVERDPL CL I GR C&D CL I I GR	NO	NO	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE BALL 6309	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON	

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.425	0.268	1.493	1.247	39.539	0.080	ODE

\* INVERTER TORQUE: CONSTANT 2:1  
 INV. HP SPEED RANGE: NONE  
 ENCODER: NONE  
 NONE  
 NONE  
 BRAKE: NONE  
 NONE  
 NONE  
 NONE PPR

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 11/5/2018  
 FT-LB: NA  
 VOLTAGE: NONE  
 HZ: \_\_\_\_\_  
 UL: NONE

