

# PRODUCT INFORMATION PACKET

Model No: 256TTGN16004  
Catalog No: C308B  
20,3600,EPFC,256TC,3/60/230/460  
Explosion Proof



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.  
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E





### Nameplate Specifications

Output HP	<b>20 Hp</b>	Output KW	<b>14.9 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>47.0/23.4 A</b>	Speed	<b>3537 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>92.4 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>256TC</b>
Enclosure	<b>Explosion Proof Fan cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6309</b>
Opp Drive End Bearing Size	<b>6210</b>	UL	<b>No</b>
CSA	<b>N</b>	CE	<b>N</b>
IP Code	<b>54</b>		

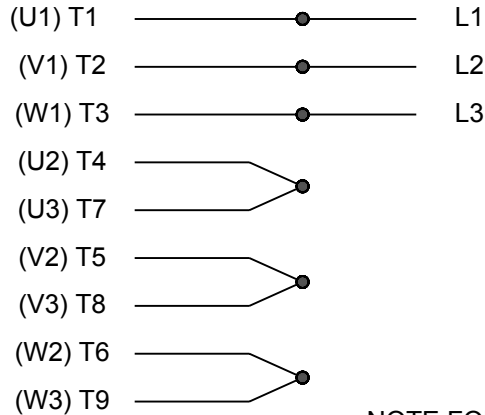
### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Round</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>T</b>
Overall Length	<b>25.77 in</b>	Frame Length	<b>12.26 in</b>
Shaft Diameter	<b>1.625 in</b>	Shaft Extension	<b>3.75 in</b>
Assembly/Box Mounting	<b>F1 ONLY</b>		
Outline Drawing	<b>B-SS207446-1225</b>	Connection Diagram	<b>A-EE7308T</b>

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 10/30/2018

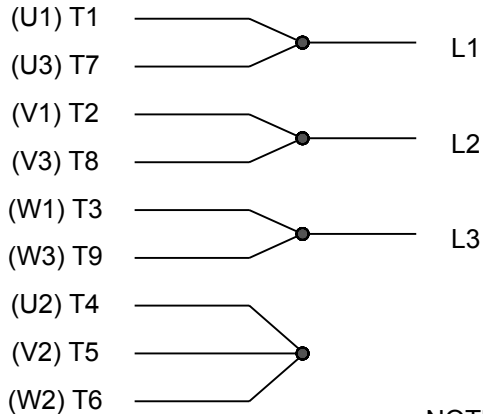


## HIGH VOLTAGE



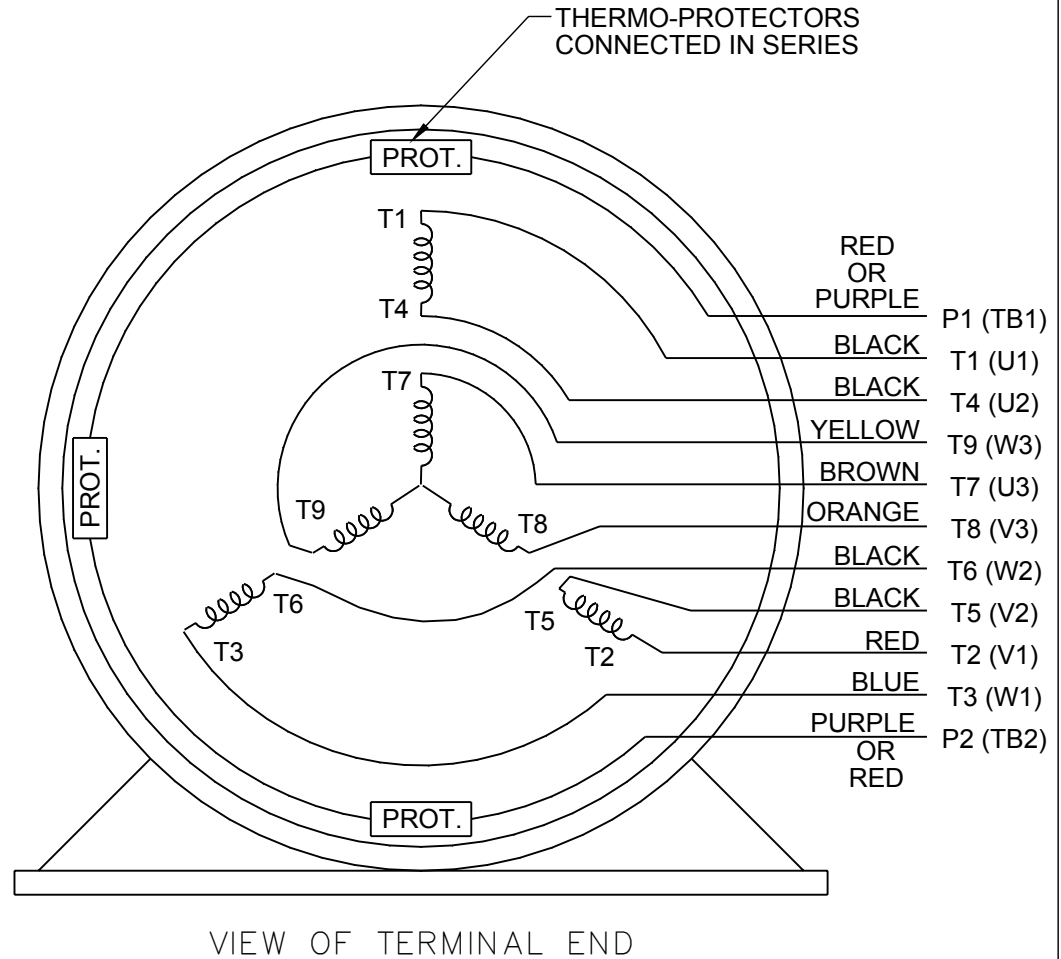
**NOTE FOR FACTORY USE ONLY:  
 TO SURGE TEST FOR COMMON CONNECT:  
 HIGH VOLT: CONNECT P1 TO T1  
 THEN P2 TO L1  
 LOW VOLT: CONNECT P1 TO T1 & T7,  
 THEN P2 TO L1**

## LOW VOLTAGE



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

## THREE PHASE DUAL VOLTAGE MOTOR



DRAWING REVISION <b>R</b>	REVISION BY <b>AJW</b>	DATE <b>07-17-2015</b>		DRAWN BY <b>SMC</b>	Regal Beloit America, Inc.
ECO <b>ECO-0081632</b>	APPROVED BY <b>T. VUE</b>	DATE <b>07-17-2015</b>		DATE <b>05-13-1992</b>	
ECO DESCRIPTION <b>REV'D IEC NOTATIONS PER IEC 60034-8</b>				APPROVED BY <b>TB</b>	DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b>
<small>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.</small>				DATE <b>05-13-1992</b>	<b>3 PHASE - DUAL VOLTAGE MOTOR</b>
			REFERENCE <b>EE7308/EE7300</b>	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>EE7308T</b>



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 #: 256TTGN16004  
 CONN. DIAGRAM: A-EE7308T CAT #: C3088  
 OUTLINE: B-SS207446-1225 CUSTOMER PART #: \_\_\_\_\_  
 WINDING: K256288 NONE 10 MOUNTING: F1 ONLY  
 SPEED: \_\_\_\_\_

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	3600	3537	256TC	TEFC	TEN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	47/23.4#42/21	LINE OR INVERTER	CONT	F	1.15	40	3300
	F.L. EFF	92.4	3/4 LD EFF	91.7	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE	
	F.L. PF	86.0	3/4 LD PF	85.0	1/2 LD PF	78.0	91.7	SO CAGE INV BATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
29.7 LB-FT	145	55.0 LB-FT	84.0 LB-FT	283%
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME
72 DBA	81 DBA	1.30 LB-FT <sup>2</sup>	26 LB-FT <sup>2</sup>	2 SEC.
				START/SHOUR
				2
				MOTOR WGT
				370 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	NO	DF CL I GR C&D CL I I GR	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
0.253	0.223	1.079	1.119	37.772	0.150	ODE

* N		INVERTER TORQUE: CONSTANT 10:1	
O	INV. HP SPEED RANGE: NONE		
T	ENCODER: NONE		
E	BRAKE: NONE		
S	FT-LB: NONE		
	VOLTAGE: NONE		
	HZ: NONE		

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 9/10/2018  
 FORM: 3531 REV 4 2/27/06

Data Sheet

256TGAN16004

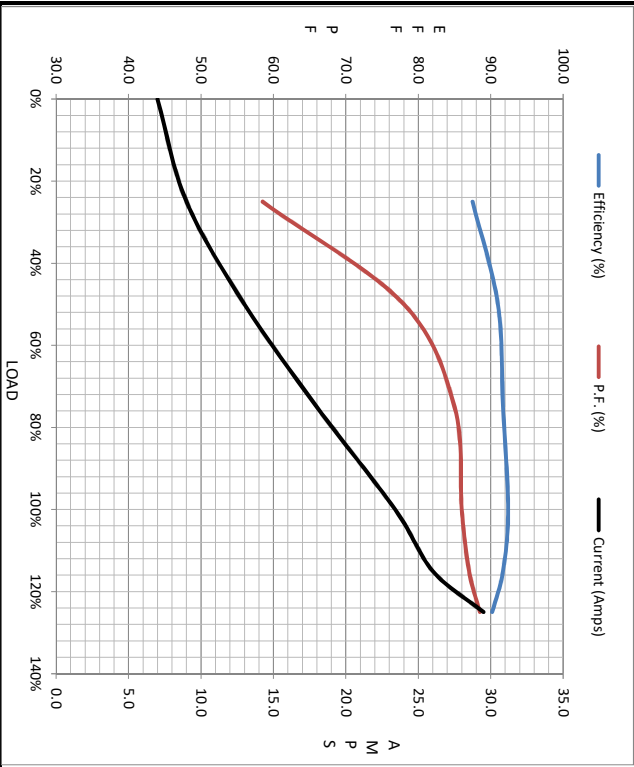


Submital Data @ 460 V

Date: 9/10/2018  
 Customer:   
 Attention:   
 Submitted by: FAREEDA DUDEKULA

Load	Motor Load Data									
	0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amps)	7.0	9.0	13.0	18.0	23.4	26.0	29.5	145		
Torque (ft-lb)	0.00	7.5	15.0	22.0	29.7	31.0	37.5	50.0		
RPM	3600	3585	3570	3555	3537	3525	3515	0		
Efficiency (%)		87.5	91.0	91.7	92.4	91.7	90.2			
P.F. (%)	10.5	58.5	78.0	85.0	86.0	87.0	88.5	37.0		

	Motor Speed Data					Information Block																			
	LR	Pull-Up	BD	Rated	Idle	HP	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Motor/Shaft wk <sup>2</sup>	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Com. Diag	Additional Specifications:	
Speed (RPM)	0	1800	3155	3537	3600	20.0	256182TFC6080	TEFC	TFN	230/460#190/380	60	B	G	1.15	55	CONT	40 °C	1,000 feet	K256288 NONE	72 DBA	CONSTANT 10:1	B-SS207446-1225	A-EE7308T		
Current (Amps)	145	131	100	23.4	7.0																				
Torque (ft-lb)	55.0	50.0	84.0	29.7	0.00																				



R1	R2	X1	X2	Km
0.2530	0.2230	1.0790	1.1190	37.7720

