

# PRODUCT INFORMATION PACKET

Model No: 256THGP18531  
Catalog No: 256THGP18531  
25,1800,EPFC,256TC,3/60/230/460

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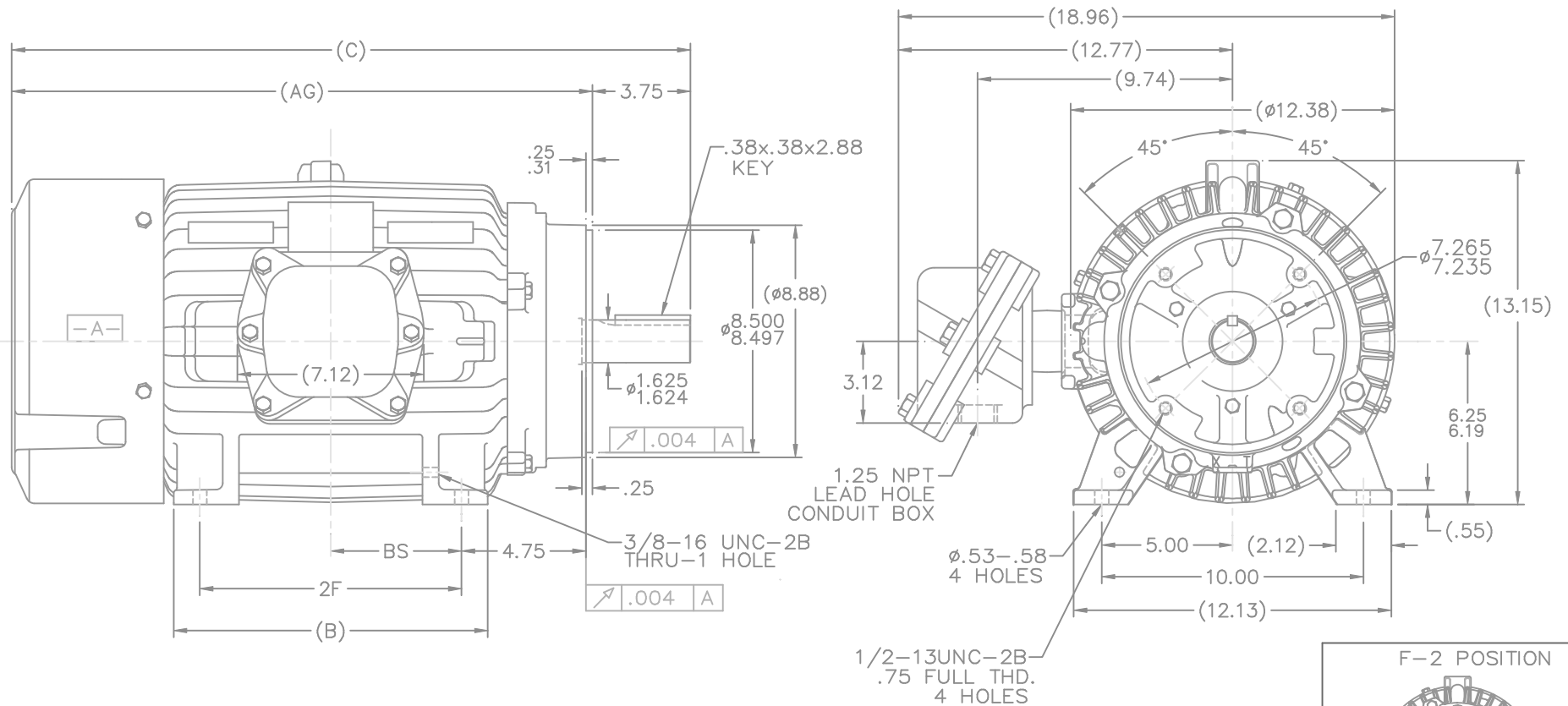
### Nameplate Specifications

Output HP	<b>25 Hp</b>	Output KW	<b>18.7 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>64.5/32.0 A</b>	Speed	<b>1740 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>90.2 %</b>	Power Factor	<b>80</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>INV</b>	KVA Code	<b>J</b>
Frame	<b>256TC</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6207</b>
UL	<b>No</b>	CSA	<b>N</b>
CE	<b>N</b>	IP Code	<b>54</b>
Hazardous Location	<b>EXP PROOF CL I GR D T2A</b>	Number of Speeds	<b>1</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.379 Ohms</b>	Mounting	<b>Rigid Base</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>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>B-SS203007-1350</b>	Connection Drawing	<b>A-EE7308T</b>

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## NOTES:

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

(B-SS28140)

DASH	FRAME	C	AG	B	2F	BS
1175	254T	24.19	20.44	10.25	8.25	4.12
1350	256T	25.94	22.19	12.00	10.00	5.00

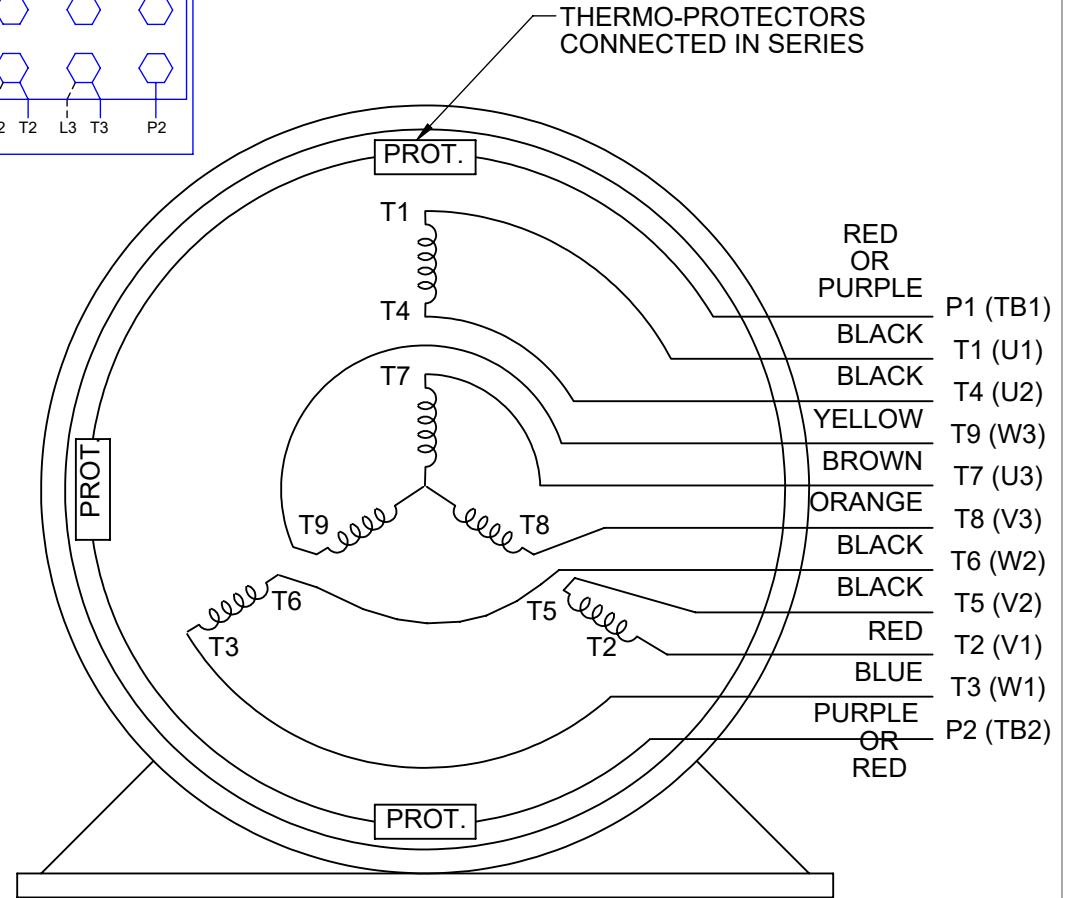
		TO FRANCES UNLESS SPECIFIED		REGAL-BELOIT Motor Technologies Group		DRAWN KL 03-20-1995	
		DEC.	INCHES			CHK	RJM 03-22-1995
3	ADDED VIEW OF F2 MOUNTING MU61165	RWR 08-16-2004	ML	.X	±.1	APPD	JL 03-23-1995
2	REVISE C'BOX 1/2-HEIGHT F-3.15 T-3.12; ADDED			.XX	±.03	SCALE	1=4
	ADDED O.L DIMENSIONS CN20702	SMC 05-12-1995	RJM	.XXX	±.005	REF	
1	NEW DRAWING DEV./ENG.	KL 03-23-1995	RJM	.XXXX	±.0005	FMF	
NO.		REVISION		BY & DATE		PREV	
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		RFP	03-23-1995	CAD FILE	ss203007	SIZE	DRAWING NO. PAGE 1 OF 1 REV.
		DIST	LB			B	SS203007 3

**HIGH VOLTAGE**



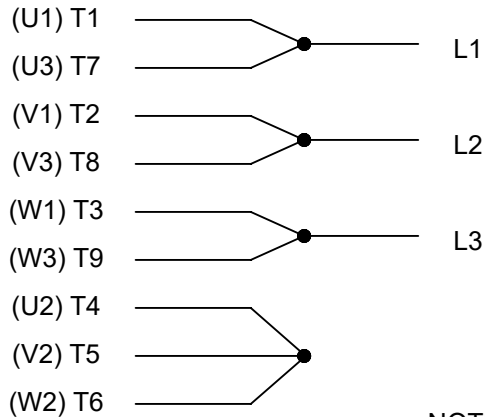
**THREE PHASE  
DUAL VOLTAGE MOTOR**

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

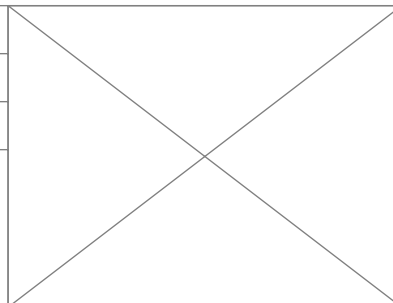
**LOW VOLTAGE**



**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
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019
ECO DESCRIPTION <b>ADDED TERMINAL CONNECTION DIAGRAM</b>		
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DRAWN BY SMC
DATE 05-13-1992
APPROVED BY TB
DATE 05-13-1992
REFERENCE EE7308/EE7300
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER <b>EE7308T</b>
SHEET 1 OF 1	



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 #:** 256THGP18531  
**CONN. DIAGRAM:** A-EE7308T **CAT #:** N/A  
**OUTLINE:** B-SS203007-1350 **CUSTOMER PART #:** \_\_\_\_\_  
**WINDING:** K2154496 R2 1 **MOUNTING:** F1 ONLY  
**SPEED:** \_\_\_\_\_ **FAN:** 504205B

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
25	18.7	1800	1740	256TC	EPFC	TFP	J	INV

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	64.5/32	INVERTER ONLY	CONT	F	1.00	40	3300

F.L. EFF	90.2	3/4 LD EFF	91.0	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	80.0	3/4 LD PF	75.0	1/2 LD PF	63.0	86.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
75.5 LB-FT	231	214 LB-FT	283%	262 LB-FT
				347%
				105

SOUND PRESSURE	SOUND	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
72 dBA	81 dBA	1.60 LB-FT <sup>2</sup>	- LB-FT <sup>2</sup>	20 SEC.	2	376 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	DIV 1 EXP PROOF CL I GR D T2A	NO	NONE	TAN - UNICO (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6309	6207						

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
0.268	0.291	0.923	1.083	18.525	0.080	ODE

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE			NONE PPR		
	BRAKE: NONE					
	NONE					

PREPARED BY: _____	BRAKE: NONE
DATE: 10/28/2022	NONE
	FT-LB: NA
	VOLTAGE: NONE
	HZ: _____
	UL: NONE

FORM: 3531 REV. 4 2/27/06

**Data Sheet**

Date: 10/28/2022

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: \_\_\_\_\_



256THGP18531

**Submittal**

Data @ 460 V

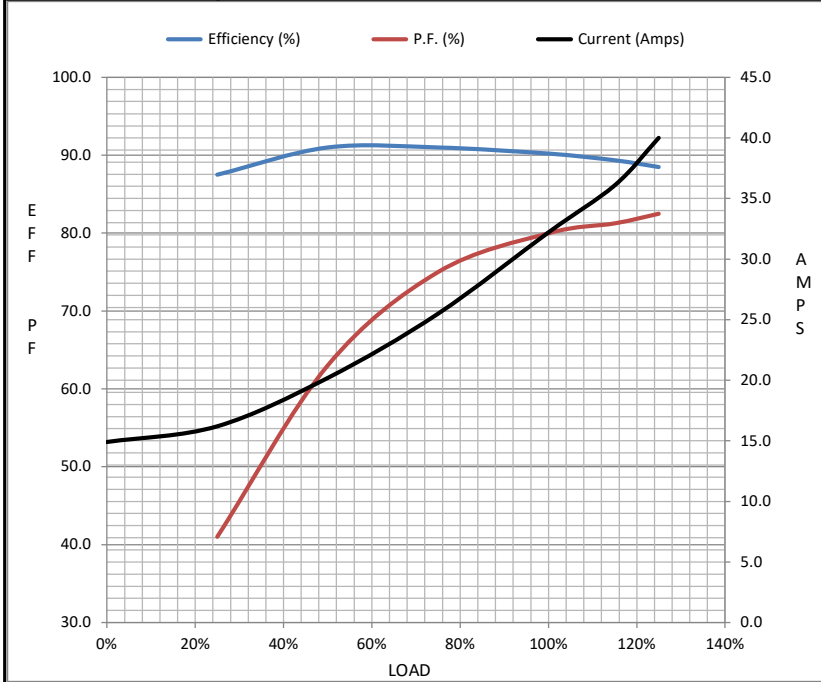
**Motor Load Data**

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.9	16.2	20.2	25.5	32.2	36.1	40.0	231	
Torque (ft-lb)	0.00	18.4	37.0	56.0	75.5	85.5	95.5	214	
RPM	1800	1785	1772	1758	1740	1,732	1720	0	
Efficiency (%)		87.5	91.0	91.0	90.2	89.4	88.5		
P.F. (%)	4.5	41.0	63.0	75.0	80.0	81.3	82.5	53.5	

**Motor Speed Data**

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1165	1740	1800
Current (Amps)	231	215	170	32.2	14.9
Torque (ft-lb)	214	193	262	75.5	0.00

Information Block				
HP	25.0			
Sync. RPM	1800			
Frame	256			
Enclosure	EPFC			
Construction	TFP			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	J			
Service Factor	1.0			
Temp Rise @ FL	105 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	1.60 Lb-Ft <sup>2</sup>			
Ref Wdg	K2154496 R2			
Sound Pressure @ 1M	72 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS203007-1350			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2680	0.2910	0.9230	1.0830	18.5250



**Speed - Torque Curve**

