

# PRODUCT INFORMATION PACKET

Model No: 213TTFBD6028

Catalog No: GT1216A

7.50 HP General Purpose Motor, 3 phase, 1800 RPM, 230/460 V, 213TC Frame, TEFC  
Three Phase TEFC Motors





### Nameplate Specifications

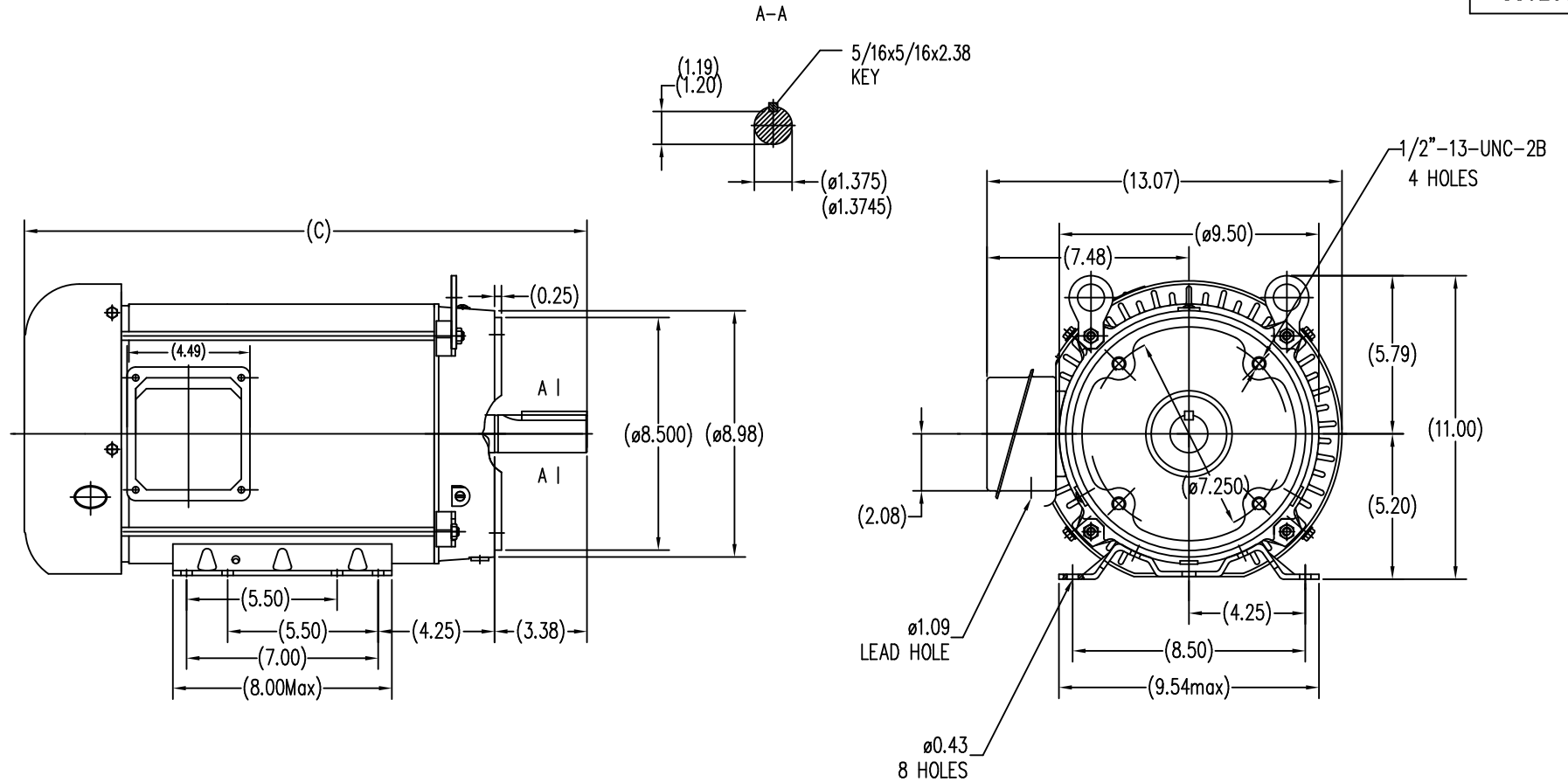
Output HP	<b>7.50 Hp</b>	Output KW	<b>5.6 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>19.0/9.5 A</b>	Speed	<b>1768 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Power Factor	<b>79.3</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Frame	<b>213TC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6307</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Listed</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Hazardous Location	<b>DIVISION 2 T2B</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>1.473 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>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>19.10 in</b>
Frame Length	<b>9.65 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.38 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>EE7308</b>	Outline Drawing	<b>SS620688-100</b>

# Uncontrolled Copy

SS620688



213TC	19.1
215TC	20.7
FRAME	C

		TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN ZXW 06-03-2015	
		DEC.	INCHES			CHK ZL 06-03-2015	
		.X	±.1			APPD ZYH 06-03-2015	
		.XX	±.03	TITLE		SCALE	
		.XXX	±.005	213/215TC-Face		REF	
		.XXXX	±.0005	MAT'L		FMF REGAL-WUXI	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV
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				DIST			DRAWING NO.
							B
							SS620688
							REV.
							2



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM	SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			PREV				
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							DIST WP					



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:** CUSTOMER PO #:  
**ORDER #:** MODEL #: 213TTFBD6028 AA  
**CONN. DIAGRAM:** A-EE7308 CUSTOMER PART #:  
**OUTLINE:** B-SS620688 MOUNTING: F1/F2 CAPABLE  
**WINDING #:** HE31324012 2

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
7 1/285	5.6083.70	1800	1768&1475	213TC	TEFC	H	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	19/9.5&16/8	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.0	40

<b>FULL LOAD EFF:</b>	91.7&91	<b>3/4 LOAD EFF:</b>	93	<b>1/2 LOAD EFF:</b>	90	<b>GTD. EFF</b>	91	<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	80&76.5	<b>3/4 LOAD PF:</b>	73.4	<b>1/2 LOAD PF:</b>	63.8	<b>SQ CAGE INV RATED</b>		

F.L. TORQUE LB-FT	LOCKED ROTOR AMPS	L.R. TORQUE LB-FT	202 %	B.D. TORQUE LB-FT	265 %	F.L. RISE°C
22.3	124 / 62	45		59		40

SOUND PRESSURE @ 3 FT. DBA	SOUND POWER DBA	ROTOR WK^2 LB-FT^2	75 LB-FT^2	SAFE STALL TIME SEC.	25 SEC.	STARTS / HOUR	2	APPROX. MOTOR WGT LBS.	175
62	72	0.95							

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS DE ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL BALL 6307 6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS		
THERMOSTATS	PROTECTORS	WDG RTDS	BRG RTDS	CONTROL	SPACE HEATERS	VOLTS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE

<b>* INVERTER TORQUE:</b>	CONSTANT 10:1
<b>INV. HP SPEED RANGE:</b>	NONE
<b>ENCODER:</b>	NONE
<b>O NONE</b>	NONE
<b>T NONE</b>	PPR
<b>E NONE</b>	P/N NONE
<b>S NONE</b>	NONE
<b>* FT-LB</b>	NONE V NONE HZ

**PREPARED BY:** Fareeda Dudekula  
**DATE:** 05/14/2018 01:14:29 AM  
**FORM 3531 REV.3 02/07/99**  
**\*\* Subject to change without notice.**

Data Sheet

Date: 5/3/2018

2131TFBD6028

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



Submital

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

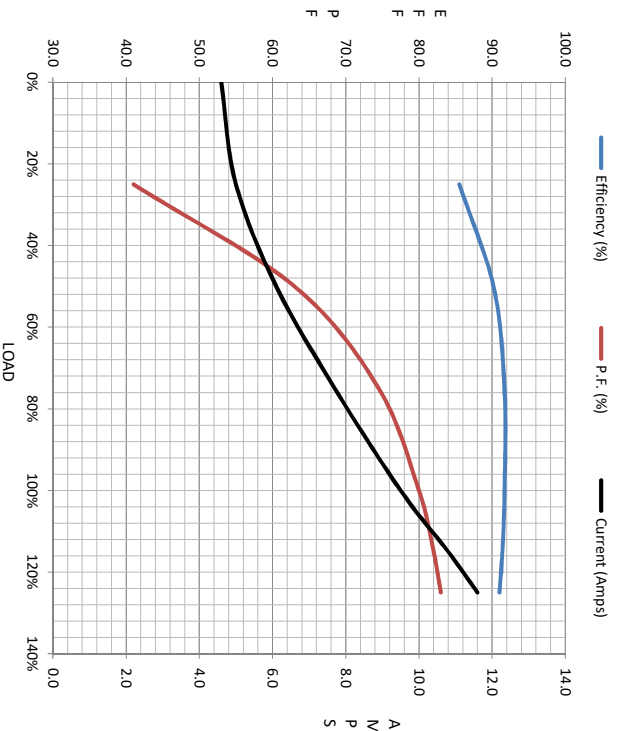
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.6	5.0	6.1	7.7	9.5	10.8	11.6	62.0
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.6	28.0	45.0
RPM	1800	1792	1785	1775	1768	1,762	1758	0
Efficiency (%)		85.5	90.2	91.7	91.7	91.4	91.0	
P.F. (%)	6.0	41.0	63.0	74.5	80.0	82.0	83.0	43.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1580	1768	1800
Current (Amps)	62.0	56.0	35.0	9.5	4.6
Torque (ft-lb)	45.0	38.0	59.0	22.3	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213182TFC6080			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.95 Lb-Ft²			
Ref Wdg	HE31324012 NONE			
Sound Pressure @ 1M	62 dbA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS620688			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
R1	R2	X1	X2	Xm
0.9110	0.5480	2.6610	3.0810	56.8890
EQUIV/CKT (OHMS/PHASE)				



Speed - Torque Curve

