

PRODUCT INFORMATION PACKET



Model No: 171851.60

Catalog No: 171851.60

General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
213TC Frame, TEFC



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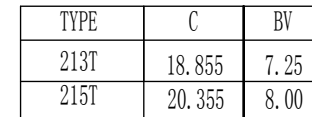



Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	18.6/9.3 & 16/8 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6306
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.161 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.85 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1
Outline Drawing	SS620765	Connection Drawing	5010.20



					TOLERANCES UNLESS SPECIFIED	 Regal-Beloit Corporation	DRAWN	
				DEC.	INCHES		CHK	
				.X	±.1		APPD	
				.XX	±.03	TITLE	OUTLINE	SCALE NONE
A	REVISED TABLE ECO-0111323	WGJ 10-17-16	EMH .XXX	±.005	N215TC-2 15HP L/B	REF		
B	RELEASED FOR PRODUCTION ECO-0109530	WGJ 09-15-16	EMH .XXXX	±.0005	MAT'L	FMF		
NO.	REVISION	BY & DATE	CHK ANG	±1/2	FINISH	PREV		
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**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CERTIFICATION DATA SHEET

CATALOG #: 171851.60

CONN. DIAGRAM: 5010.20

OUTLINE: SS620765

MOUNTING: F1/F2 CAPABLE

WINDING #: T10704023 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1770&1475	213TC	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	18.6/9.3&16/8	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	91.7&91	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	90.2	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	82&78.8	3/4 LOAD PF:	76.5	1/2 LOAD PF:	65.2	91		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	149 / 74.5	49.5 LB-FT 220 %	81 LB-FT 360 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
67 dBA	77 dBA	0.89 LB-FT^2	0.9 LB-FT^2	15 SEC.	2	165 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	GREEN - LEESON WATTSaver

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
6308	6306						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 10:1

INV. HP SPEED RANGE: NONE

ENCODER: NONE

NONE NONE

NONE NONE PPR

BRAKE: NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 2/1/2018

171851.60



Data @ 460 V

Motor Load Data

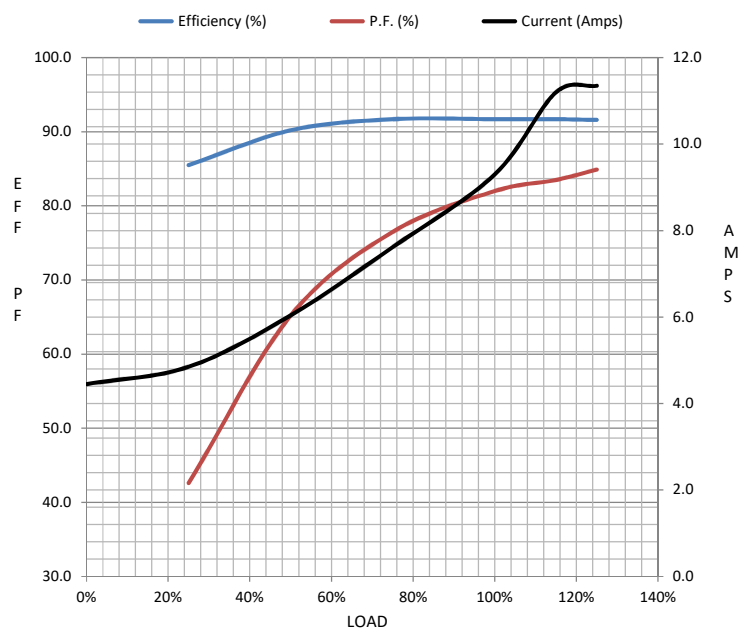
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.5	4.9	6.0	7.6	9.3	11.2	11.4	74.5	
Torque (ft-lb)	0.00	5.5	11.2	16.8	22.5	25.9	28.1	49.5	
RPM	1800	1793	1786	1778	1770	1765	1761	0	
Efficiency (%)		85.5	90.2	91.7	91.7	91.7	91.6		
P.F. (%)	5.8	42.6	65.2	76.5	82.0	83.5	84.9	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1550	1770	1800
Current (Amps)	74.5	71.0	48.5	9.3	4.5
Torque (ft-lb)	49.5	42.0	81.0	22.5	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.89	Lb-Ft²		
Ref Wdg	T10704023 NONE			
Sound Pressure @ 1M	67	dBa		
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS620765			
Conn. Diag	5010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

