

PRODUCT INFORMATION PACKET



Model No: 170165.60

Catalog No: 170165.60

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	43
Number of Speeds	1		

Technical Specifications

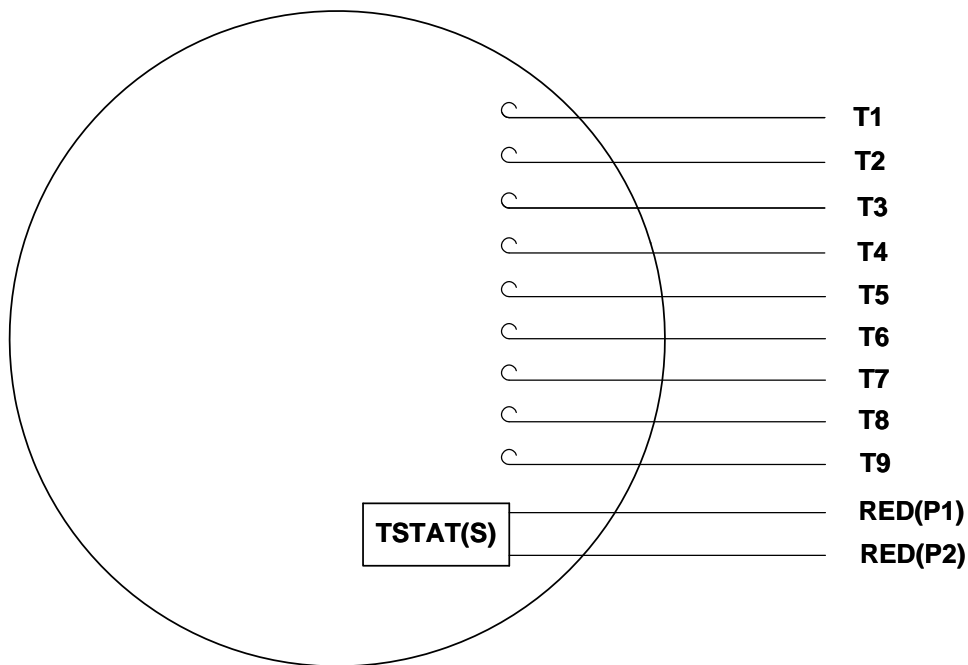
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.161 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.94 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1
Outline Drawing	SS622294-N213TC-4W2	Connection Drawing	005010.20

Cat. No.	FRAME	B	C	2F	2F1	K
170166.60	N213TC-2W2	7.32	18.94	5.50		4
170168.60	N215TC-4W2	8.82	20.35	7.00	5.50	6
170165.60	N213TC-4W2	7.32	18.94	5.50		4
170167.60	N215TC-4W2	8.82	20.35	7.00	5.50	6
171116.60	N215TC-6W2	8.82	20.35	7.00	5.50	6

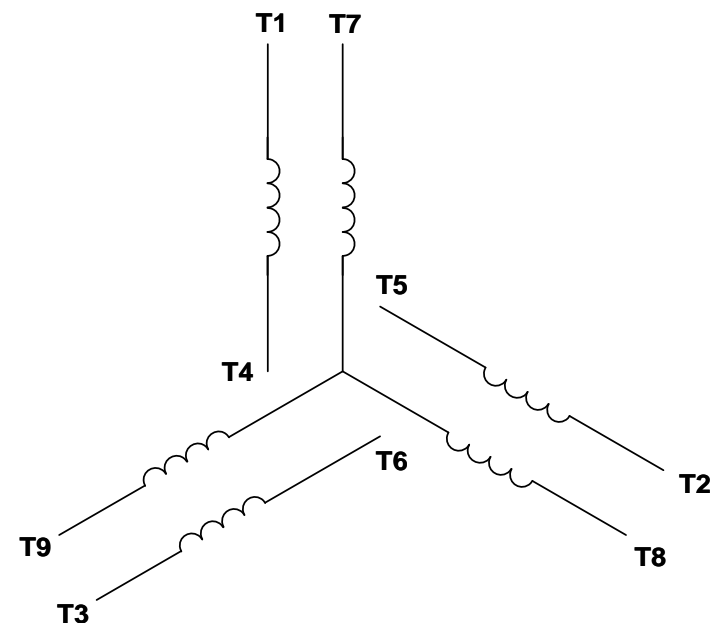
					TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MOL 03-07-2011					
					DEC. INCHES				CHK MOL 03-07-2011					
					.X ±.1				APPD SB 03-07-2011					
					.XX ±.03		TITLE OUTLINE		SCALE 1=4					
					.XXX ±.005		N210TC FR-2,4,6-W2- C'FACE - TEFC		REF					
					.XXXX ±.0005		MAT'L		FMF					
NO.			REVISION		BY & DATE		CHK ANG ±7°30"		FINISH					
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

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LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION G	REVISION BY MVG	DATE 04/05/2017
ECO ECO-0121253	APPROVED BY SM	DATE 04/05/2017
ECO DESCRIPTION ADDED P1 & P2 FOR TSTAT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 125/3.2 INCH/mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY DBT 12/16/97	DATE
APPROVED BY KH 12/17/97	DATE
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE WITH PROTECTOR	
MATERIAL DECAL - 004014 (TSTAT) - 080582	PROCESS/FINISH STOCK
SIZE A	DRAWING NUMBER 00501020
SHEET 1 OF 1	

Data Sheet

Date: 1/31/2018

170165.60



Data @ 460 V

Motor Load Data

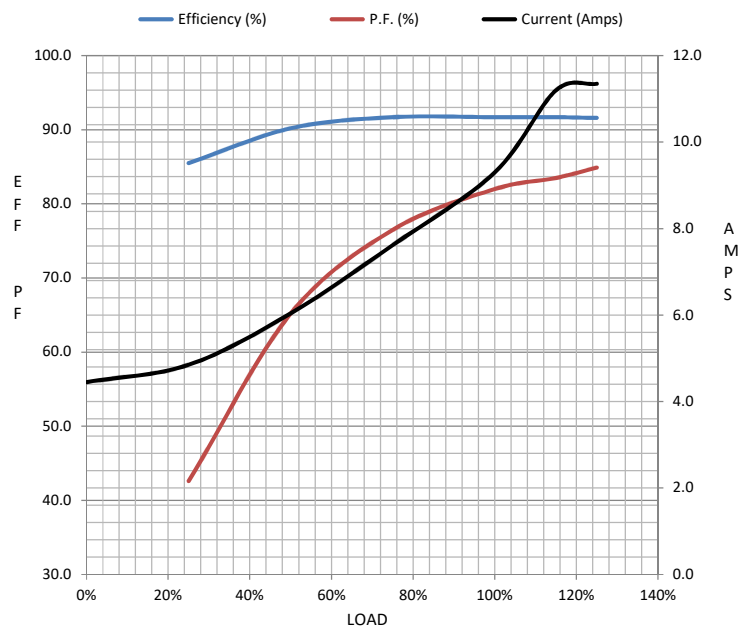
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.5	4.9	6.0	7.6	9.3	11.2	11.4	74.5	
Torque (ft-lb)	0.00	5.5	11.2	16.8	22.5	25.9	28.1	49.5	
RPM	1800	1793	1786	1778	1770	1765	1761	0	
Efficiency (%)		85.5	90.2	91.7	91.7	91.7	91.6		
P.F. (%)	5.8	42.6	65.2	76.5	82.0	83.5	84.9	35.0	

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	B-SS622294			
Conn. Diag	005010.20			
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

