

PRODUCT INFORMATION PACKET



Model No: 170170.60

Catalog No: 170170.60

WATTSaver® General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 213TC Frame, DP



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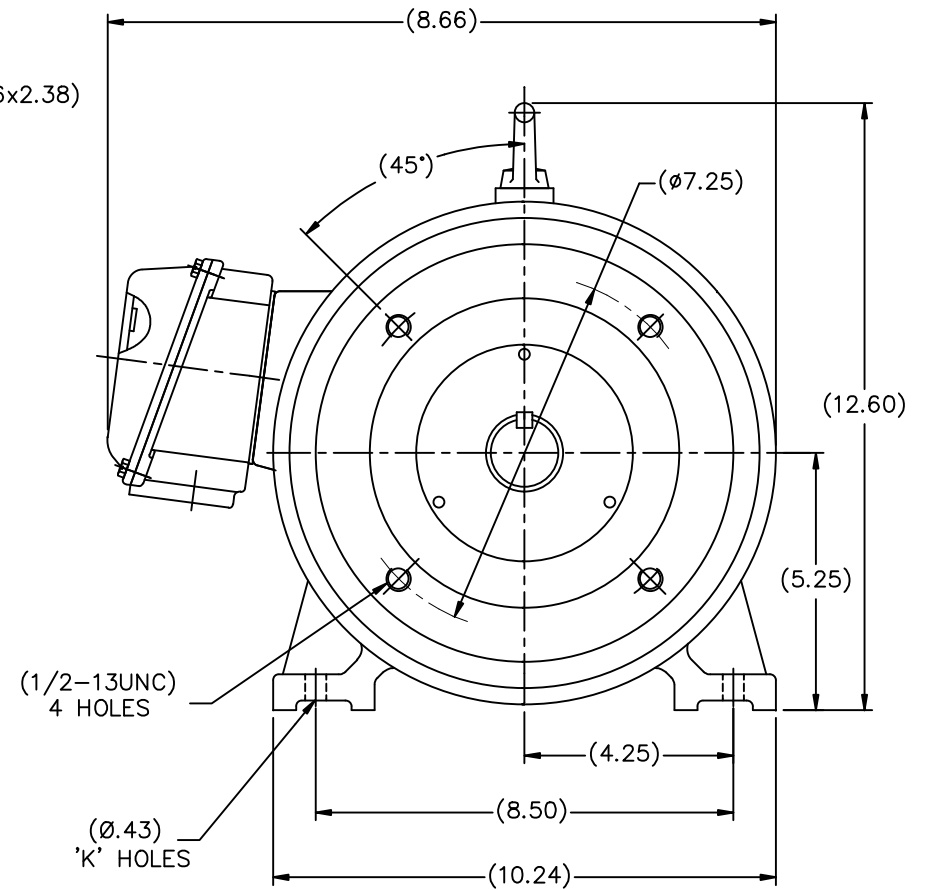
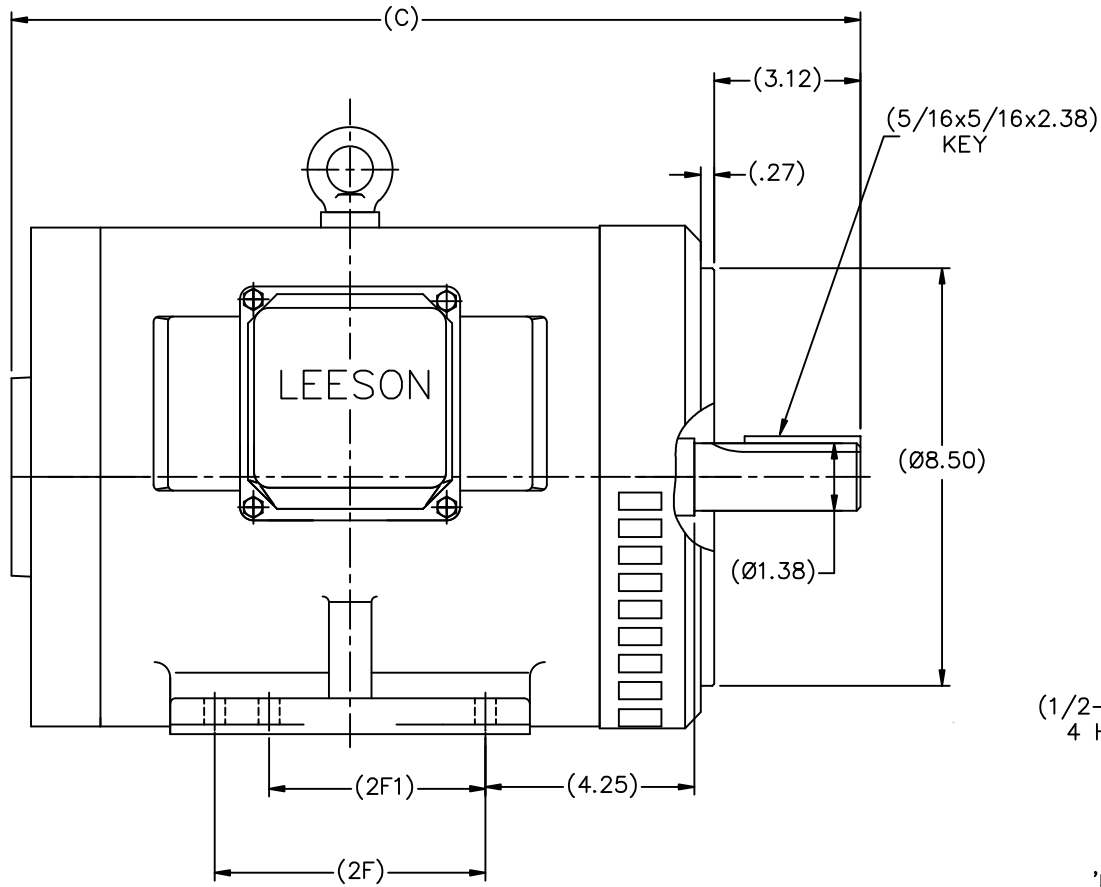


Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	208-230/460 & 190/380 V
Speed	1760 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	213TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20.6-19.8/9.9 & 16.8/8.4 A	Power Factor	78
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.26 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	17.32 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS622287	Connection Drawing	005010.01



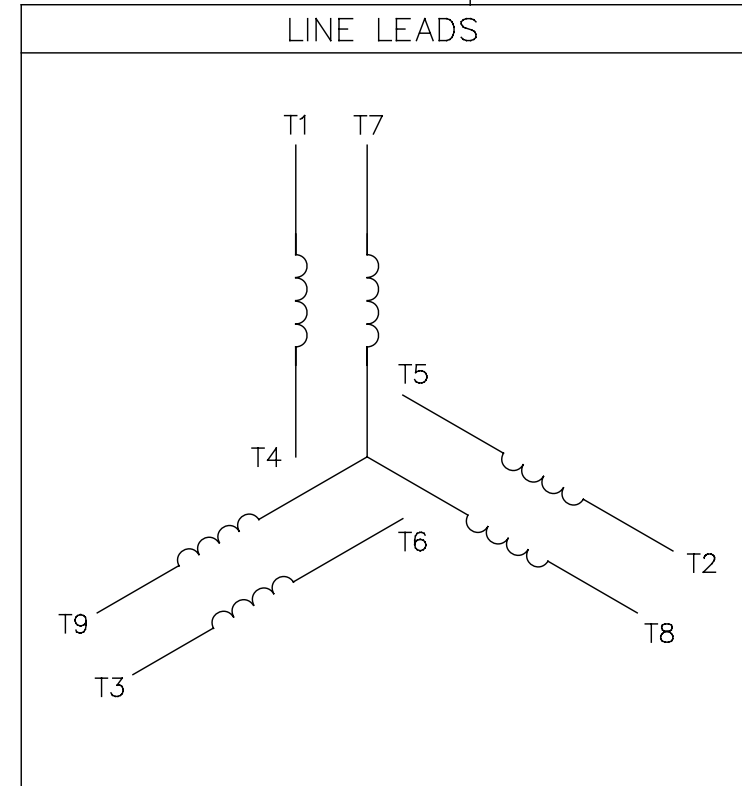
DRAWING NOT TO SCALE

Cat. No.	FRAME	C	2F	2F1	K
170171.60	N213T-2W2 ODP	17.32	5.50		4
170173.60	N215T-2W2 ODP	18.90	7.00	5.50	6
170170.60	N213T-4W2 ODP	17.32	5.50		4
170172.60	N215T-4W2 ODP	18.90	7.00	5.50	6


TOLERANCES UNLESS SPECIFIED		DEC. INCHES		TITLE		DRAWN MQL 03-07-2011	
.X	±.1	LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		CHK	MQL 03-07-2011
.XX	±.03	OUTLINE		N210TC FR-2,4-W2- C'FACE - ODP		APPD	SB 03-07-2011
.XXX	±.005	MAT'L		FINISH		SCALE	1=4
.XXXX	±.0005	NO.		REV. 1		REF	
ANG	±7'30"	BY & DATE		CAD FILE SS622287		FMF	
RFP		THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT		SIZE		PREV	
DIST		B		DRAWING NO. PAGE OF		REV.	
				SS622287			

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RDW 04/12/02		
				DEC.	INCHES		CHK		
				.X	±.1		APPD		
				.XX	±.01		SCALE 1=1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR	REF FIG.2-51		
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005		MAT'L. DECAL - 004014	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT			RFP 04/12/02		CAD FILE 00501001		SIZE	DRAWING NO.	REV.
			DIST BRF-NLV				A	005010-01	A

Data Sheet

Date: 1/31/2018

170170.60



Data @ 460 V

Motor Load Data

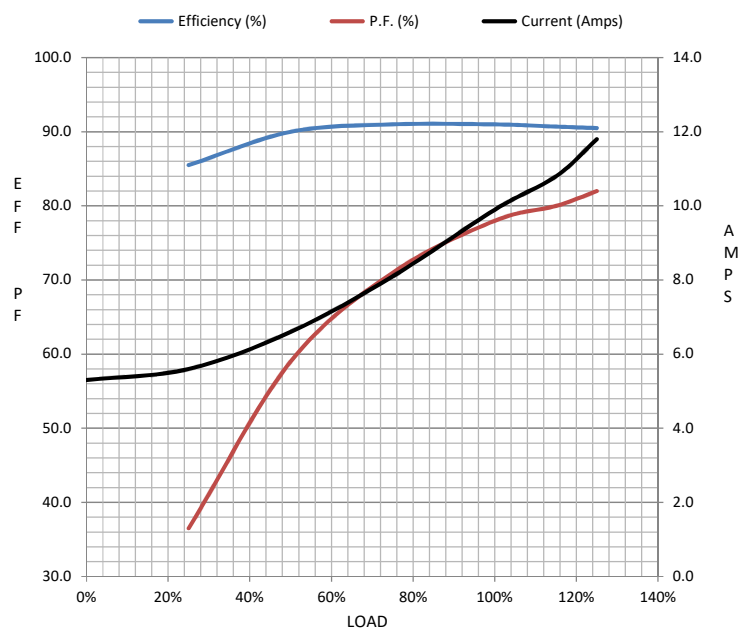
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.3	5.6	6.6	8.1	9.9	10.8	11.8	63.5	
Torque (ft-lb)	0.00	5.7	11.3	16.9	22.5	25.9	28.2	45.0	
RPM	1800	1795	1785	1775	1760	1755	1750	0	
Efficiency (%)		85.5	90.0	91.0	91.0	90.7	90.5		
P.F. (%)	6.0	36.5	59.0	71.0	78.0	80.0	82.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1250	1760	1800
Current (Amps)	63.5	58.4	45.0	9.9	5.3
Torque (ft-lb)	45.0	37.1	58.0	22.5	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	DP			
Construction	TDC			
Voltage	208-230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	30	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	T10704007 NONE			
Sound Pressure @ 1M	72	dBa		
VFD Rating	CONSTANT 4:1			
Outline Dwg	B-SS622287			
Conn. Diag	005010.01			
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

