

PRODUCT INFORMATION PACKET



Model No: 171616.60

Catalog No: 171616.60

Severe Duty Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,
213T Frame, TEFC



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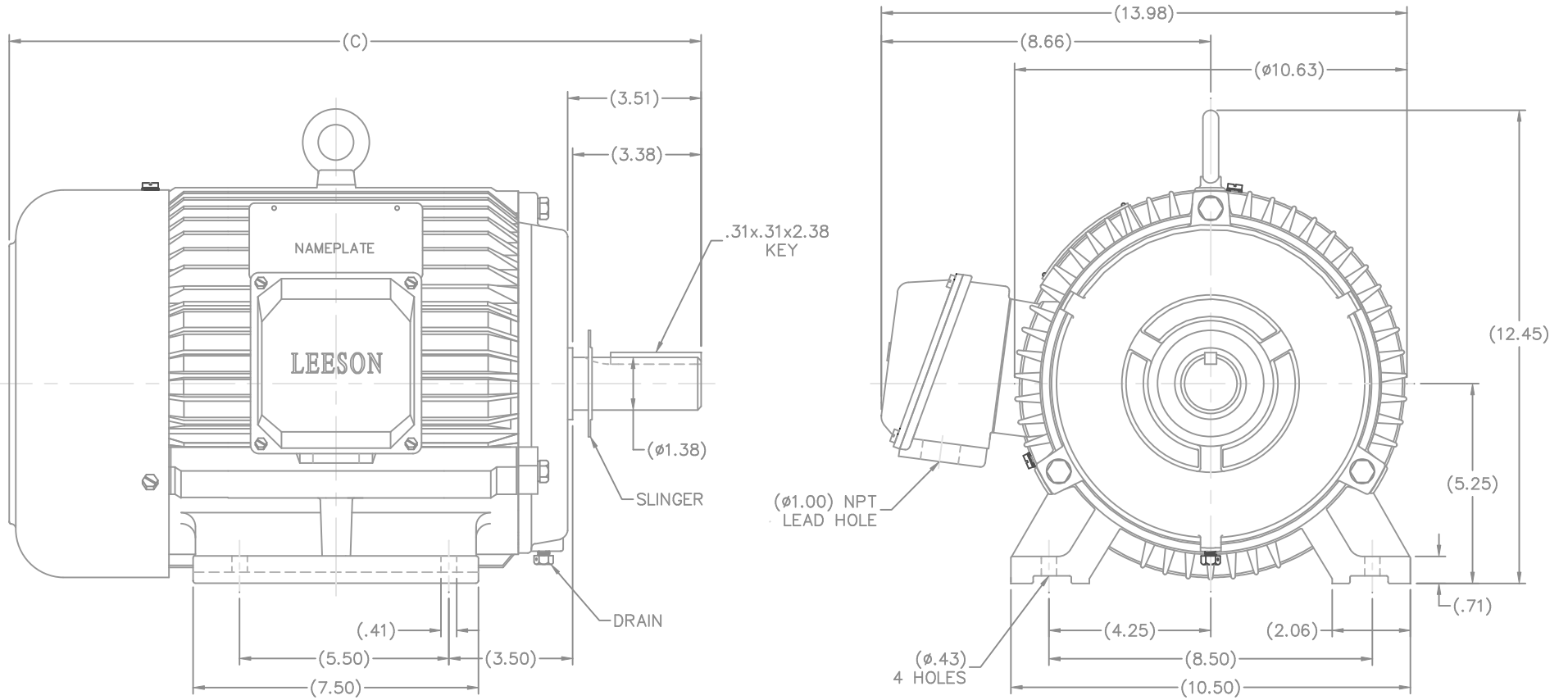


Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	208-230/460 & 190/380 V
Speed	3539 & 2950 rpm	Service Factor	1.25 & 1.15
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20-15/7.5 & 14.4/7.2 A	Power Factor	85.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	NONE	Opp Drive End Bearing Size	NONE
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.015 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	18.30 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS622137LE	Connection Drawing	005010.01

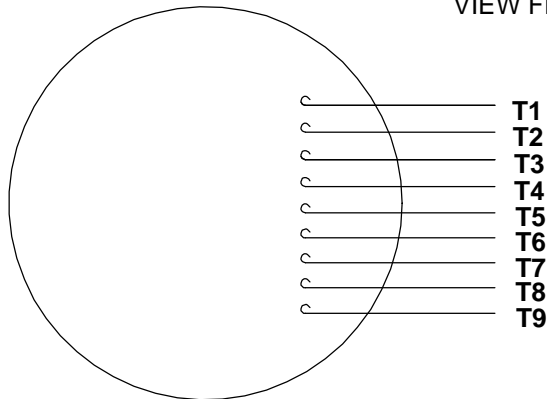


(MAY NOT BE DRAWN TO SCALE)

213T	18.30
FRAME	C

		TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 06-02-2006	
		DEC.	INCHES		CHK	ML
		.X	±.1			APPD SB 06-08-2006
		.XX	±.03	TITLE	SCALE	3=8
		.XXX	±.005	213T FR. - TEFC	REF	
		.XXXX	±.0005	MAT'L	FMF	HEBEI
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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	FINISH	171616.60, 171622.60, 171634.60
				DIST	WA	CAD FILE ss622137le
				SIZE	B	DRAWING NO. PAGE OF REV. SS622137LE

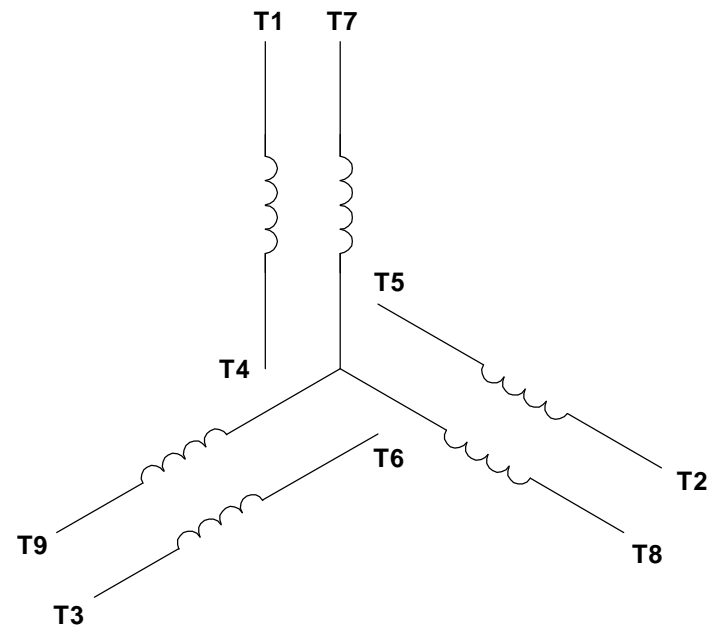
VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



MODEL NO.	HP	RPM	VOLTAGE	MODEL NO.	HP	RPM	VOLTAGE
3N841	1/4	1725	208-230/460	6WY43	1 1/2	1740	208-230/460
3N842	1/3	1725	208-230/460	6WY44	1 1/2	3450	208-230/460
3N851	1/3	3450	208-230/460	6WY45	1 1/2	3450	208-230/460
3N852	1/2	3450	208-230/460	6WY46	2	1740	208-230/460
3N854	1/3	3450	208-230/460	6WY47	2	1740	208-230/460
3N855	1/2	3450	208-230/460	6WY48	2	3450	208-230/460
6WY28	1/3	1740	208-230/460	6WY49	2	3450	208-230/460
6WY29	1/3	3450	208-230/460	6WY50	3	3450	208-230/460
6WY30	1/2	1140	208-230/460	6WY51	1/2	1140	208-230/460
6WY31	1/2	1740	208-230/460	6WY52	1/2	1140	208-230/460
6WY32	1/2	3450	208-230/460	6WY53	1/2	1740	208-230/460
6WY33	3/4	1140	208-230/460	6WY54	3/4	1140	208-230/460
6WY34	3/4	1740	208-230/460	6WY55	3/4	1740	208-230/460
6WY35	3/4	3450	208-230/460	6WY56	1	1140	208-230/460
6WY36	1	1140	208-230/460	6WY57	1	1740	208-230/460
6WY37	1	1140	208-230/460	6WY58	1	1740	208-230/460
6WY38	1	1740	208-230/460	6WY59	1 1/2	1740	208-230/460
6WY39	1	1740	208-230/460	6WY60	1 1/2	1740	208-230/460
6WY40	1	3450	208-230/460	6WY61	2	1740	208-230/460
6WY41	1	3450	208-230/460	6WY62	2	1740	208-230/460
6WY42	1	1740	208-230/460				

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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

		TOLERANCES UNLESS SPECIFIED		Dayton Electric Mfg. Co. Lake Forest IL 60045 USA		DRAWN RDW 05/09/05	
		DEC	INCHES			CHK	
04	REVISED GRAINGER ADDRESS AS PER IS12-2651	PVR 7/4/2012	PI .X	±.1	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR MAT'L DECAL - 004014		APPR KJH 05/09/05
03	REDRAWN IN SOLIDWORKS	VJB 02/08/11	.XX	±.01			SCALE 1:1
02	ADDED 3N841, 842, 851, 852, 854 & 855 TO CHART	RDW 10/28/05	KH .XXX	±.005			REF
01	REMOVED 4YU41, ADDED 6WY28 - 6WY62	RDW 8/01/05	KH .XXX	±.0005	PAGE OF		
NO	REVISION	BY & DATE	CHK	ANG ±1/2°	FINISH		
THIRD ANGLE PROJECTION			RFP	PREV	SIZE	DRAWING NO	REV
			NETWORK FILE NAME 00501001WD		A	005010-01WD	04

Data Sheet

Date: 2/1/2018

171616.60



Data @ 460 V

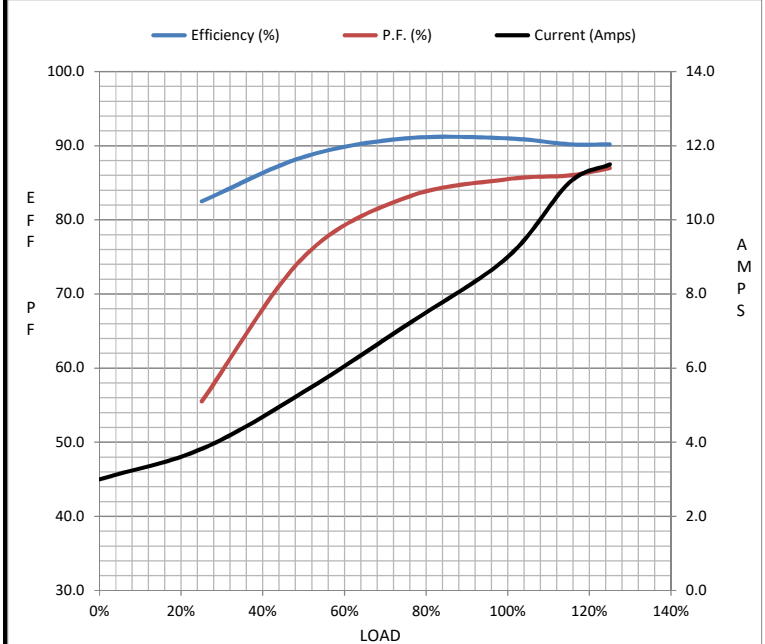
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.0	3.8	5.4	7.2	9.0	11.0	11.5	66.0
Torque (ft-lb)	0.00	2.78	5.6	8.4	11.2	12.3	14.1	23.3
RPM	3600	3586	3571	3555	3539	3,535	3522	0
Efficiency (%)		82.5	88.5	91.0	91.0	90.2	90.2	
P.F. (%)	9.1	55.5	75.0	83.0	85.5	86.0	87.0	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3312	3539	3600
Current (Amps)	66.0	60.7	39.6	9.0	3.0
Torque (ft-lb)	23.3	25.2	34.0	11.2	0.00

Information Block				
HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.38 Lb-Ft ²			
Ref Wdg	T10702021 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS622137LE			
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

