PRODUCT INFORMATION PACKET

Model No: 171779.60 Catalog No: 171779.60 Severe Duty Motor, 25 HP, 3 Ph, 60 Hz, 208-230/460 V, 1800 RPM, 284T Frame, TEFC



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LEESON

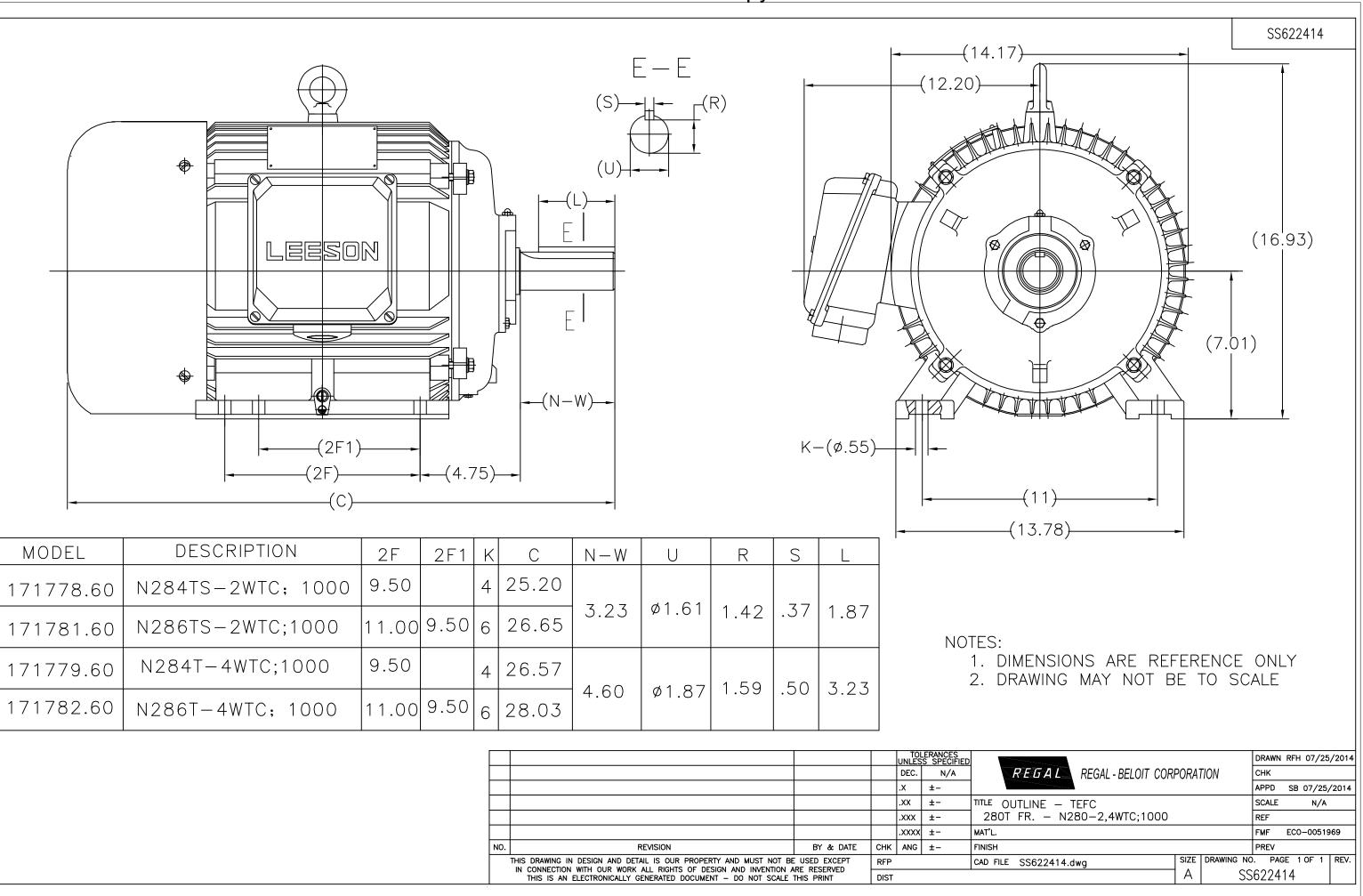
Nameplate Specifications

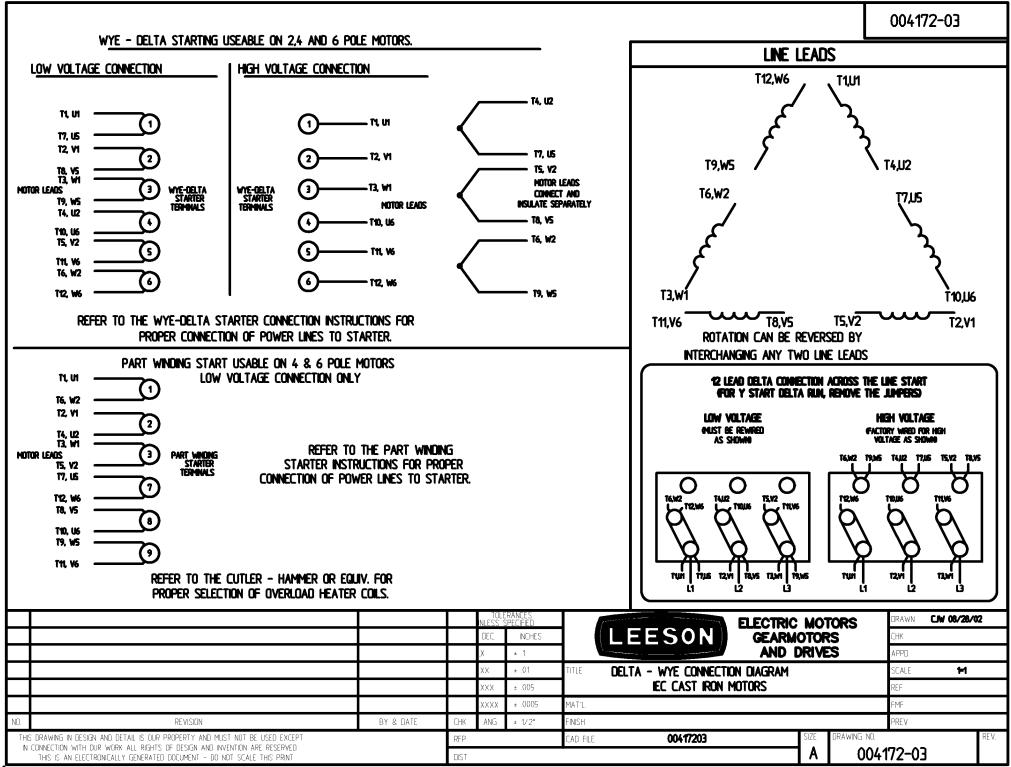
Output HP	25 Нр	Output KW	18.7 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	66.0-59.0/29.5 A	Speed	1783 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	н
Frame	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2	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	.058 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	т	Overall Length	26.57 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Connection Drawing	00417203	Outline Drawing	SS622414

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CATALOG #: 171779.60

CONN. DIAGRAM: 00417203

MOUNTING: F1/F2 CAPABLE

OUTLINE: SS622414 **WINDING #:** T14504005 3

TYPICAL MOTOR PERFORMANCE DATA

н	Р	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
258	<u>k</u> 20	18.7&14.9	1800	1783&1480	284T	TEFC	Н	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°с
З	60/50	208-230/460&190/380	66-59/29.5&60/30	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	93.6&93	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	85&80.8	3/4 LOAD PF:	80	1/2 LOAD PF:	69	92.4	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
73.5 LB-FT	400 / 200	145 LB-FT 197 %	225 LB-FT 306 %	44

SOUND P @ 3		SOUND	POWER	ROTO	R WK^2	МА	X. WK^2	SAFE ST	ALL TIME	STARTS / HOUR	АРР МОТО	
75	dBA	85	dBA	4.23	LB-FT^2	-	LB-FT^2	20	SEC.	2	394	LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2	FALSE	NONE	GREEN (EPOXY)

BEAR	INGS	GREASE	SHAFT TYPE	SPECIAL DE		SHAFT	FRAME
DE	ODE	GREASE	SHAFT TTPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE		CAST IRON
6311	6309	POLIREX EM	I	NONE	NONE	AISI 1045 (C-240)	CAST IRON

	THERMO-PROTE	CTORS		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	- THERMISTORS CONTROL SPACE HEATERS
NONE	NOT	NONE	NONE	NONE FALSE NONE VOLTS
*				INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
Ν				ENCODER: NONE
0				NONE NONE NONE PPR
т				BRAKE: NONE NONE
_				NONE P/N NONE
E				NONE NONE
				NONE FT-LB NONE V NONE HZ

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Date:	1/17/	/2018		Data S	heet			171779.60		
Duto		2010			SON					-
				Moto	r Load Data	®		Data	a@ 460	v
bad	0%	25%	50%	75%	100%	115%	125%	LR		
urrent (Amps)	12.0	14.5	18.5	24.0	29.5	34.0	36.0	200		
rque (ft-lb)	0.00	18.6	37.5	56.0	73.5	84.5	93.5	145		_
PM ficiency (%)	1800	1792 88.5	1783 93.6	1775 94.1	1770 93.6	1,767 93.6	1762 93.6	0		-
F. (%)	5.5	46.5	69.0	80.0	84.4	86.5	87.5	0.0		
		Motor Speed	Data							
	LR	Pull-Up	BD	Rated	Idle					
eed (RPM)	0	900	1700	1770	1800			Information Block		
urrent (Amps)	200	180	130	29.5	12.0	HP O DDM		25.0		
que (ft-lb)	145	130	225	73.5	0.00	Sync. RPM		1800 284		
	fficiency (%)	— P.F. (%)		Current (Amps)		Frame Enclosure		TEFC		
	inclency (70)	F.I. (76)		current (Amps)		Construction		TFC		
100.0					40.0	Voltage		208-230/460#190/380	V	
						Frequency		60	Hz	
90.0					35.0	Design		A		
						LR Code letter		Н		
					30.0	Service Factor		1.15		
80.0						Temp Rise @	FL	44	°C	
					A 25.0 M	Duty		CONT		
70.0					2010 MI	Ambient		40	°C	
					S	Elevation	b	1,000	feet Lb-Ft ²	
					20.0	Rotor/Shaft wk Ref Wdg	-	4.2 T14504005 NONE	LD-Ft ²	
60.0					_					
	1				15.0	Sound Pressur	e @1M	75	dBA	
50.0						VFD Rating		VARIABLE 10):1	
50.0	/				10.0					
						Outline Dwg Conn. Diag		SS62 0041		
40.0					5.0	Additional Spec	cifications:	00417	200	
					5.0	0				
						0	FOU	IV CKT (OHMS / PHASE)		
			6 100%	120% 1	+ 0.0 40%	D1	R2			X
30.0	40%	60% 80%				N N I			X2	
30.0 0% 20%	40%	60% 80% LOAD	. 100/1			R1 0.0000	0.0000	0.0000	X2 0.0000	0.0
	40%				Forque C	0.0000				0.0
0% 20%	40%			Speed -	Forque C	0.0000 urve			0.0000	0.0
0% 20%	40%			Speed -	Forque C	0.0000 urve			0.0000	0.0
0% 20%	40%			Speed -	Forque C	0.0000 urve			0.0000	0.0
250.0	40%			Speed -	Forque C	0.0000 urve			250.0	0.0
250.0	40%			Speed -	Forque C	0.0000 urve			250.0	0.0
250.0	40%			Speed -	Forque C	0.0000 urve			250.0	0.0
0% 20%	40%			Speed -	Forque C	0.0000 urve			250.0)
250.0	40%			Speed -	Forque C	0.0000 urve			250.0)) A M
0% 20%	40%			Speed -	Forque C	0.0000 urve			250.0)) A M P
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0)) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%				Speed -	Forque C	0.0000 urve			250.0	0.0) A M P S
0% 20%	40%			Speed -	Forque Cu	0.0000			250.0	0.0) A M P S