PRODUCT INFORMATION PACKET





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Product Information Packet: Model No: 171778.60, Catalog No:171778.60 Severe Duty Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM, 284TS Frame, TEFC

LEESON

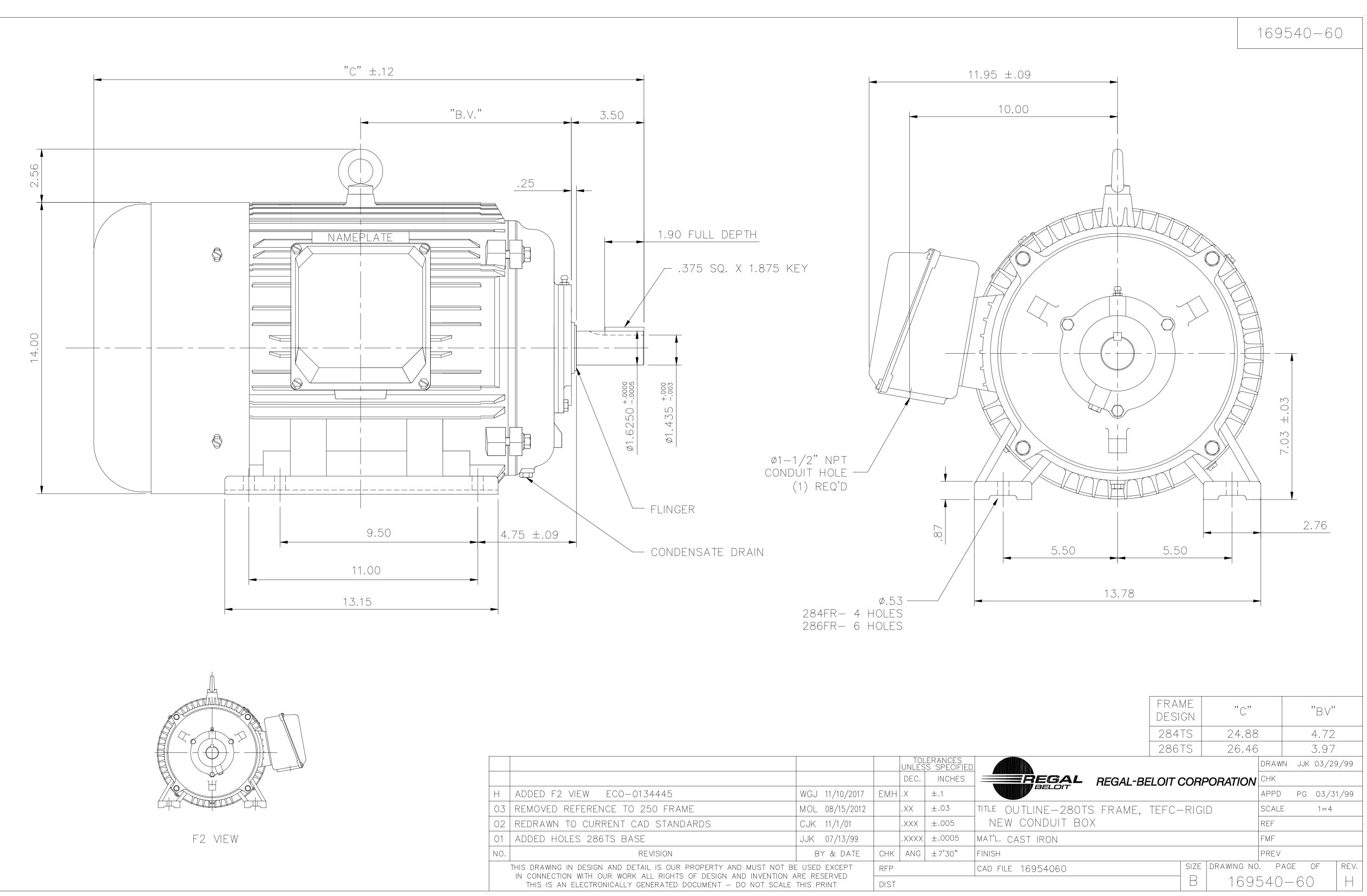
Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	208-230/460 & 190/380 V
Speed	3555 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	284TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	63-56.5/28.3 & 53.5/26.8 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Υ	IP Code	55
Number of Speeds	1		

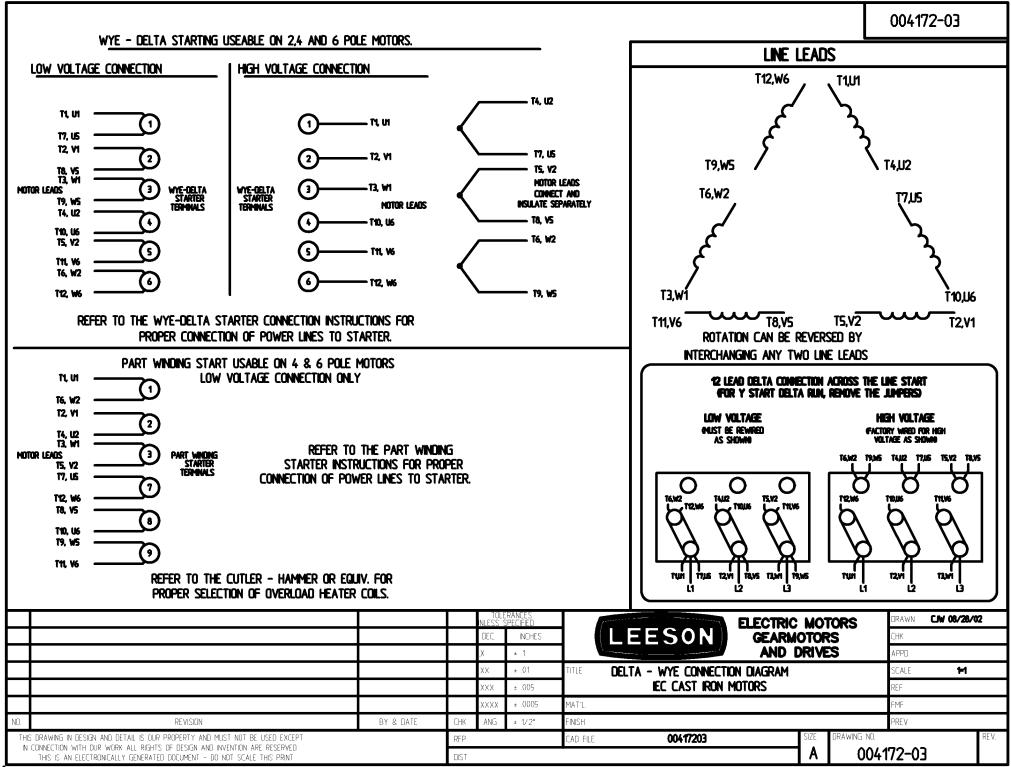
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.225 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	24.88 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Connection Drawing	00417203	Outline Drawing	16954060-284TS

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			UN	TOLERANCES	
			DE	EC. INCHES	
Н	ADDED F2 VIEW ECO-0134445	WGJ 11/10/2017	EMH .X	±.1	
03	REMOVED REFERENCE TO 250 FRAME	MOL 08/15/2012	.××	< ±.03	TITLE OUTLINE-
02	REDRAWN TO CURRENT CAD STANDARDS	CJK 11/1/01	.××	(X ±.005	NEW CONDU
01	ADDED HOLES 286TS BASE	JJK 07/13/99	.××	(XX ±.0005	MAT'L. CAST IRON
NO.	REVISION	BY & DATE	СНК АГ	NG ±7'30"	FINISH
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE		RFP		CAD FILE 1695400
	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE		DIST		



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1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

CATALOG #: 171778.60

OUTLINE: SS622180LE **WINDING #:** T18306021 FR 3 A

CONN. DIAGRAM: 00417203

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37.0&30.0	1200	1190&990	365T	TEFC	G	В

РН	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB° C
3	60/50	208 - 230/460&190/380	135.0 - 126/63.0&122/61.0	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.1&93.6	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	79&79.5	3/4 LOAD PF:	74.5	1/2 LOAD PF:	64.5	93.6	SQ CAGE INV RATED

F.L. TOR	RQUE	LOCKED ROTOR AMPS	L	R. TORQI	JE	В	D. TORQ	JE	F.L. RISE°C
220.6	LB-FT	722 / 361	453.2	LB-FT	205 %	596.1	LB-FT	270 %	76

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	– dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	- 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	RINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFT TTPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE		
6313	6313	POLIKEX EM	I	NONE	NONE	AISI 1045 (C-240)	CAST IRON

	THERMO-PROTE	CTORS		THERMISTORS	CONTROL	SPACE HE	ATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE H	LATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*				INVERTER TORQUE: INV. HP SPEED RANG		10:1	
Ν				ENCODER: NONE			
0				NONE NONE NONE	PPR		
т				BRAKE: NONE	NONE		
E				NONE P/N NO	NE		

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Date:	1/31	/2018		Data S	sneet			171778.60)	
24.0.				J J J A	SON					-
				Moto	or Load Data	R		Dat	a @ 460	v
oad	0%	25%	50%	75%	100%	115%	125%	LR		
urrent (Amps)	8.0	11.0	16.0	22.0	28.3	32.5	36.1	182		
rque (ft-lb)	0.00	9.2	18.5	27.6	37.0	42.5	46.5	72.0		4
PM ficiency (%)	3600	3583 87.5	3576 91.7	3568 93.0	3555 93.0	3,550 93.0	3540 93.0	0		_
F. (%)	7.5	64.0	81.0	86.5	88.0	88.0	88.0	0.0		
	<u> </u>	Motor Speed D	ata					1		4
	LR	Pull-Up	BD	Rated	Idle					
eed (RPM)	0	1800	3350	3555	3600		l	nformation Block		
rrent (Amps)	182	165	125	28.3	8.0	HP		25.0		
que (ft-lb)	72.0	65.0	102	37.0	0.00	Sync. RPM		3600		
_	10 1 10	(-)				Frame Enclosure		284 TEFC		
E	fficiency (%)	— P.F. (%)	— (Current (Amps)		Construction		TFC		
100.0					40.0	Voltage		208-230/460#190/380	o v	
						Frequency		60	Hz	
90.0					35.0	Design		60 A	112	
						LR Code letter		G		
					30.0	Service Factor		1.15		
80.0						Temp Rise @ I	L	60	°C	
					A 25.0 M	Duty		CONT		
70.0					23.0 IVI	Ambient		40	°C	
					S	Elevation		1,000	feet	
					20.0	Rotor/Shaft wk		1.90 T14502016 NONE	Lb-Ft ²	
60.0										
					15.0	Sound Pressur	e @1M	999	dBA	
50.0						VFD Rating		VARIABLE 1	0:1	
50.0					10.0					
						Outline Dwg Conn. Diag			54060 7203	
40.0					5.0	Additional Spec	ifications:	0041	7200	
					5.0	0				
						0	FOU	V CKT (OHMS / PHASE)		
30.0 + 20%	40%	60% 80%	5 100%	120%	──────────────── 140%	R1	R2	X1	X2	X
		LOAD				0.0000	0.0000	0.0000	0.0000	0.0
					Torquo Ci					
			T	Speed -	lorque C					
120.0				Speed -	ioique ci	-Amps			200.0	
120.0			T							
120.0			T						200.0	
120.0			T						- 180.0	
			[]							
			1						- 180.0	
			1						- 180.0	
100.0 -									- 180.0	
100.0 -									- 180.0 - 160.0 - 140.0	A
100.0 80.0 T O R 60.0									- 180.0 - 160.0 - 140.0	A
100.0 80.0 T O R Q 60.0									- 180.0 - 160.0 - 140.0 - 120.0	A
100.0 80.0 T O R 60.0									- 180.0 - 160.0 - 140.0 - 120.0	A M P
100.0 80.0 T O R 60.0 U									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0	A M P
100.0 80.0 T O R 60.0 U E									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0	A M P
100.0 80.0 T O R 60.0 U E									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0 - 60.0	A M P
100.0 80.0 T O R 60.0 U E 40.0									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0	A M P
100.0 80.0 T O R 60.0 U E									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0 - 60.0 - 40.0	A M P
100.0									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0 - 60.0	A M P
100.0 - 80.0 - T O R 60.0 - U E 40.0 - 20.0 -									- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0 - 60.0 - 40.0 - 20.0	A M P
100.0 80.0 T O R 60.0 U E 40.0	500	1000			2000		3000	3500	- 180.0 - 160.0 - 140.0 - 120.0 - 100.0 - 80.0 - 60.0 - 40.0	A M P