

# PRODUCT INFORMATION PACKET



Model No: C256T17FW1AA

Catalog No: 171633.60

20HP..1775RPM.256.TEFC.230/460V.3PH.60HZ.CONT.NOT.40C.1.15SF.RIGID.WATTSAYER.C256T17FW  
1AA

Mill and Chemical



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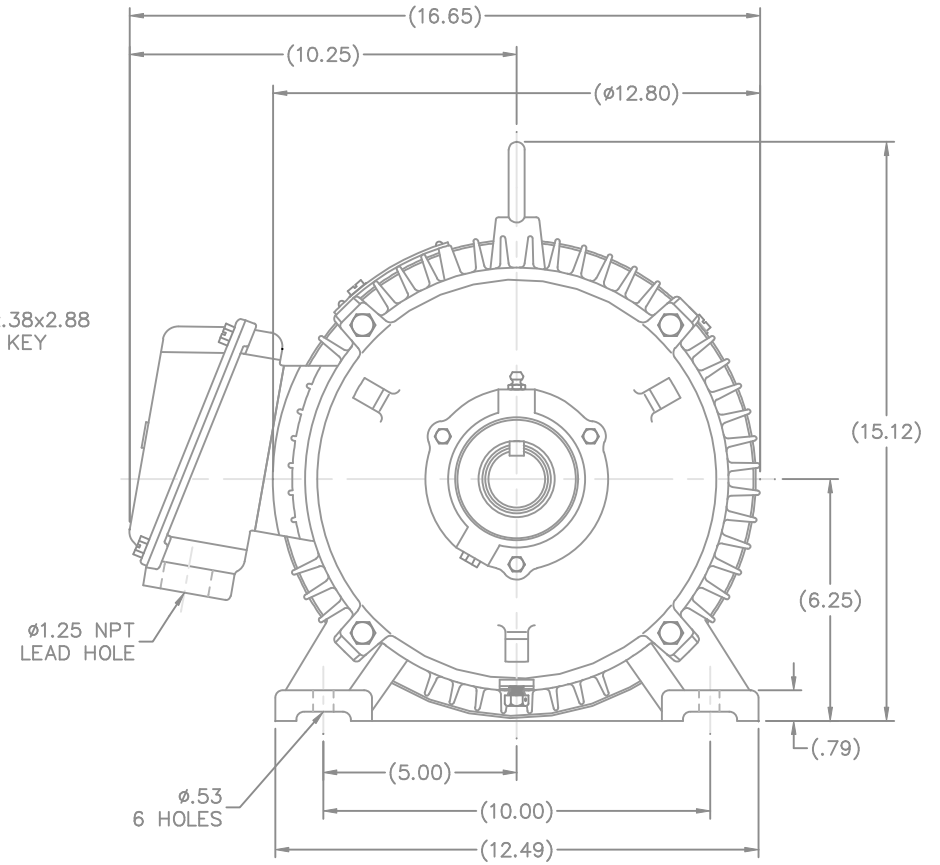
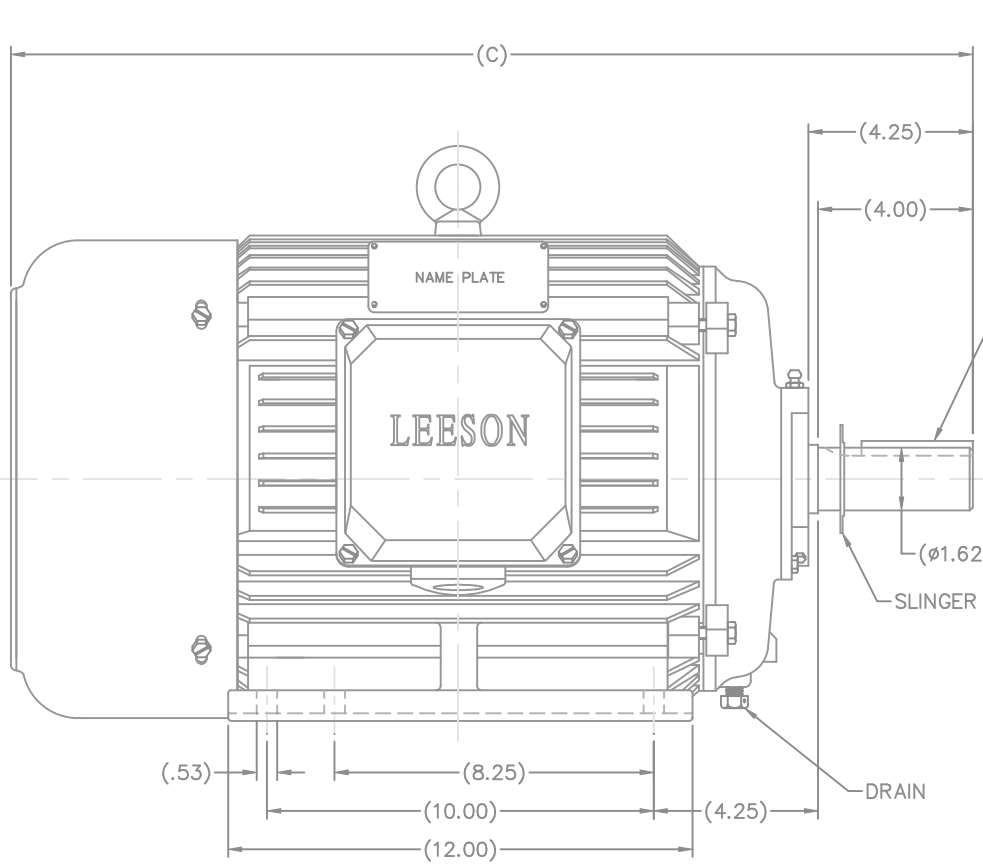
### Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	54.0-49.0/24.5 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	A
KVA Code	G	Frame	256T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	NONE
Opp Drive End Bearing Size	NONE	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	25.60 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS622140LE	Connection Diagram	00417201

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(MAY NOT BE DRAWN TO SCALE)

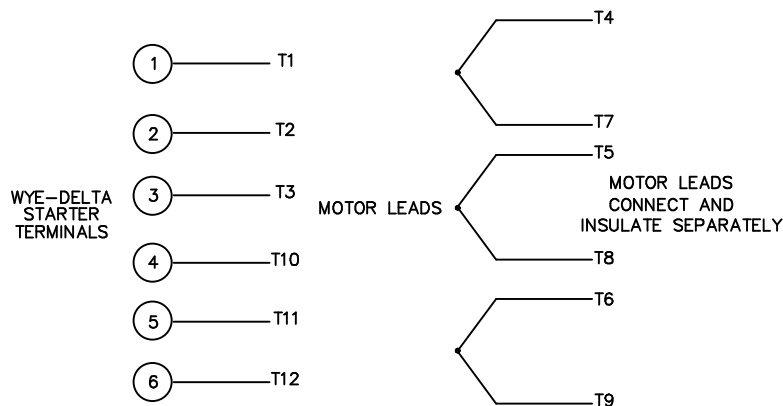
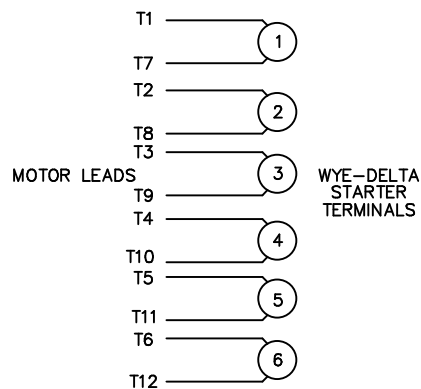
256T	25.60
FRAME	C

		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 06-02-2006	
		DEC.	INCHES				CHK ML 06-04-2006
		.X	±.1			APPD SB 06-08-2006	
		.XX	±.03	TITLE	OUTLINE	SCALE 5=16	
		.XXX	±.005		256T FR. - TEFC	REF	
		.XXXX	±.0005		MAT'L	FMF HEBEI	
NO.	REVISION	BY & DATE	CHK ANG ±7'30"	FINISH	171621.60, 171633.60, 171637.60	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	CAD FILE ss622140le	SIZE B	DRAWING NO. SS622140LE
				DIST WA		PAGE OF	REV.

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

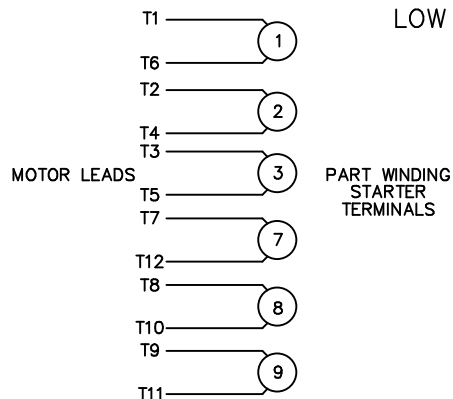
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

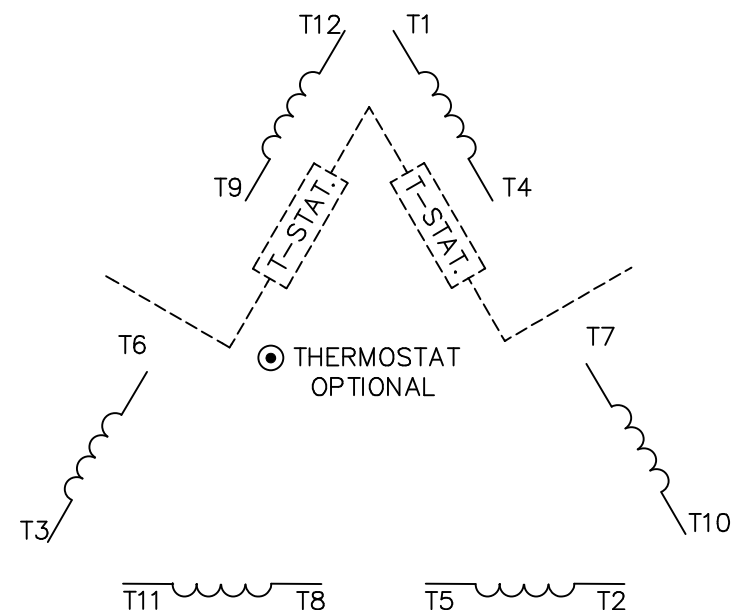
PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS  
● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1, T12	T2, T10	T3, T11	(T4, T7) (T5, T8) (T6, T9)
LOW VOLT	T1, T6 T7, T12	T2, T4 T8, T10	T3, T5 T9, T11	

TOLERANCES UNLESS SPECIFIED  
DEC. INCHES



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

DRAWN WLW 09/08/77  
CHK RPB 09/12/77  
APPD JCW 09/12/77

NO.	REVISION	BY & DATE	CHK	ANG	±1/2"
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00	.XX	±.01	
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98	.XXX	±.005	
01	REDRAWN TO CAD	DBT 06/02/97	.XXXX	±.0005	

TITLE	DELTA - WYE CONNECTION DIAGRAM
MAT'L.	
FINISH	

SCALE	1=1
REF	
FMF	
PREV	

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Motor Load Data

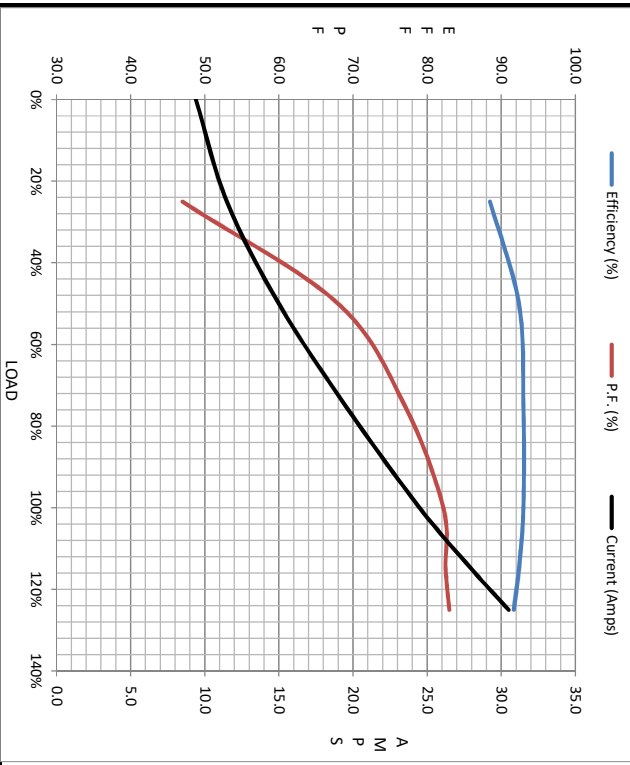
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	9.4	11.5	15.0	19.5	24.5	28.0	30.5	145
Torque (ft-lb)	0.00	15.0	30.0	45.0	59.5	70.0	75.0	115
RPM	1800	1795	1782	1778	1775	1768	1765	0
Efficiency (%)		88.5	92.4	93.0	93.0	92.4	91.7	
P.F. (%)	5.5	47.0	88.0	77.0	82.2	82.5	83.0	37.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1650	1775	1800
Current (Amps)	145	135	98.0	24.5	9.4
Torque (ft-lb)	115	95.0	195	59.5	0.00

Information Block

HP	20.0			
Sync. RPM	1800			
Frame	256			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	43 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	2.97 LB-Ft <sup>2</sup>			
Ref Wdg	T12904020 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS6221401E			
Conn. Diag	00417201			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

