

PRODUCT INFORMATION PACKET



Model No: C160T11FZ41A

Catalog No: 193347.60

..10HP-7.5kW..1180RPM.DF160MD.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.B3/B5.....
TEFC



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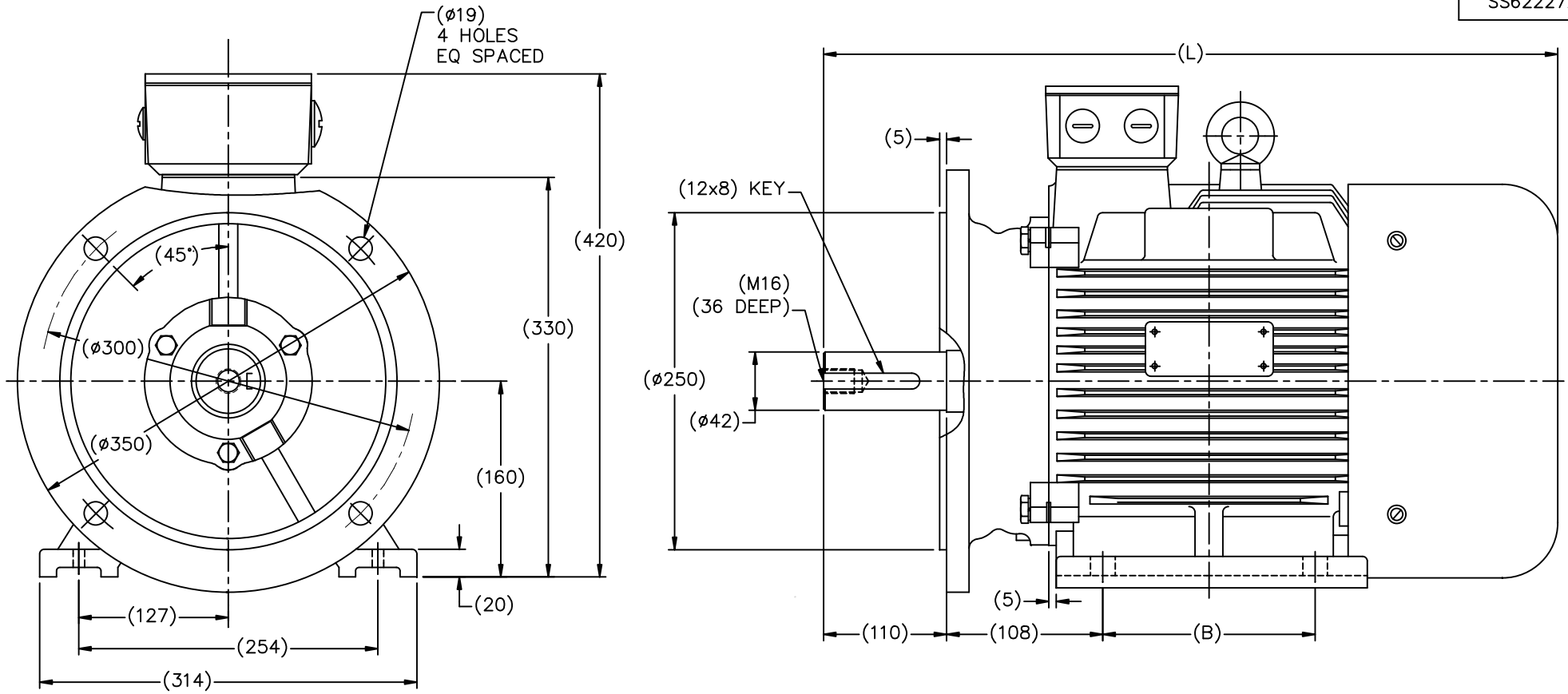
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	28.8/14.4 A	Speed	1183 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	160M
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6209	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	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	IEC
Overall Length	23.62 in	Shaft Diameter	1.625 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Outline Drawing	B-SS622272	Connection Diagram	004172.01

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Cat. No	MODEL	B	L
193348.60	DF160M1D-2R	210	600
193351.60	DF160M2D-2R	210	600
193349.60	DF160MD-4R	210	600
193354.60	DF160LD-2R	254	645
193352.60	DF160LD-4R	254	645
193347.60	DF160MD-6R	210	600

(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS ARE IN MILLIMETERS)

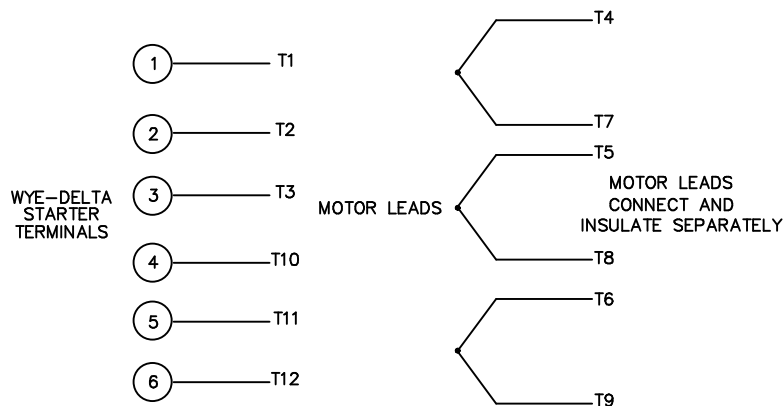
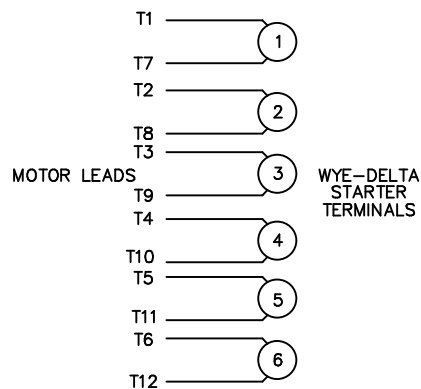
NO.		REVISION	BY & DATE	CHK	ANG	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	12-18-2010	CAD FILE	SS622272
				DIST		SIZE	DRAWING NO. PAGE OF REV.
						B	SS622272

TOLERANCES UNLESS SPECIFIED			DRAWN	
DEC.	METRIC		HLB 12-10-2010	
.X	±2.5		CHK	DJK 12-17-2010
.XX	±.76		APPD	SB 12-18-2010
.XXX	±.127		SCALE	1=18
.XXXX	±.0127	REF		
			FMF HEBEI	
			PREV	

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

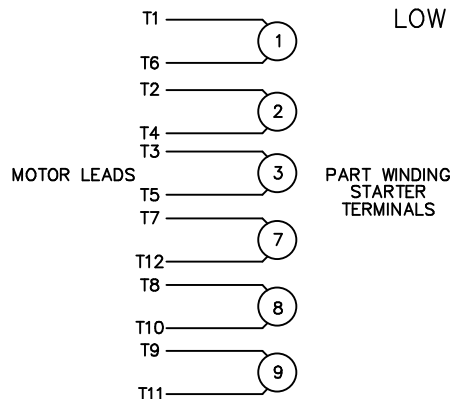
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



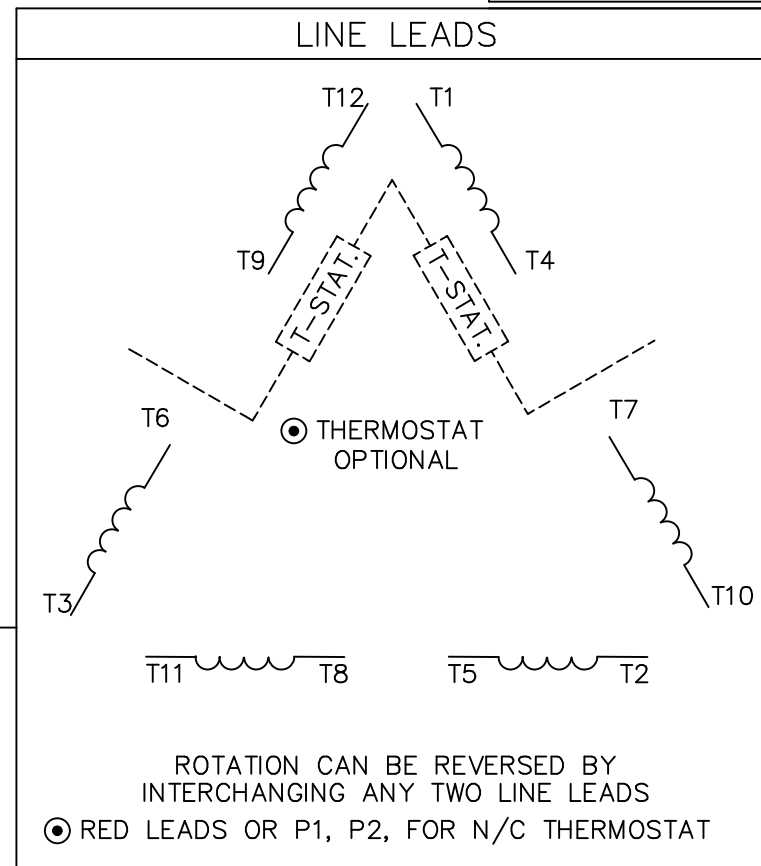
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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.



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	

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH
				DEC.	INCHES	
				.X	±.1	
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00		.XX	±.01	TITLE DELTA - WYE CONNECTION DIAGRAM
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98		.XXX	±.005	
01	REDRAWN TO CAD	DBT 06/02/97		.XXXX	±.0005	MAT'L.
				ANG	±1/2'	



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN	WLW 09/08/77
CHK	RPB 09/12/77
APPD	JCW 09/12/77
SCALE	1=1
REF	
FMF	
PREV	

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RFP	CAD FILE	00417201	SIZE	DRAWING NO.	REV.
DIST			A	004172-01	03



CERTIFICATION DATA SHEET

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

CATALOG #: 193347.60

CONN. DIAGRAM: 004172.01

OUTLINE: B-SS622272

MOUNTING: F3

WINDING #: T12906015 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
108.7 1/2	7.5085.60	1200	11838985	160M	TEFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/4608.190/380	28.8/14.4826.8/13.4	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	91.7891.7	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF	91	ELEC. TYPE
FULL LOAD PF:	71.5873.6	3/4 LOAD PF:	65.7	1/2 LOAD PF:	54.7	91	SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.3 LB-FT	160.4 / 80.2	83.2 LB-FT 185 %	105 LB-FT 234 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- DBA	- DBA	3.559 LB-FT^2	3.6 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
FF-FLANGE-300	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6309	6209						

THERMO-PROTECTORS							
THERMOSTATS	PROTECTORS	WDG RTDS	BRG RTDS	THERMISTORS	CONTROL	SPACE HEATERS	VOLTS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	NONE

* INVERTER TORQUE: CONSTANT 10:1
 INV. HP SPEED RANGE: NONE

N ENCODER: NONE
 NONE NONE
 NONE NONE PPR

O BRAKE: NONE NONE
 NONE NONE P/N NONE
 NONE NONE NONE

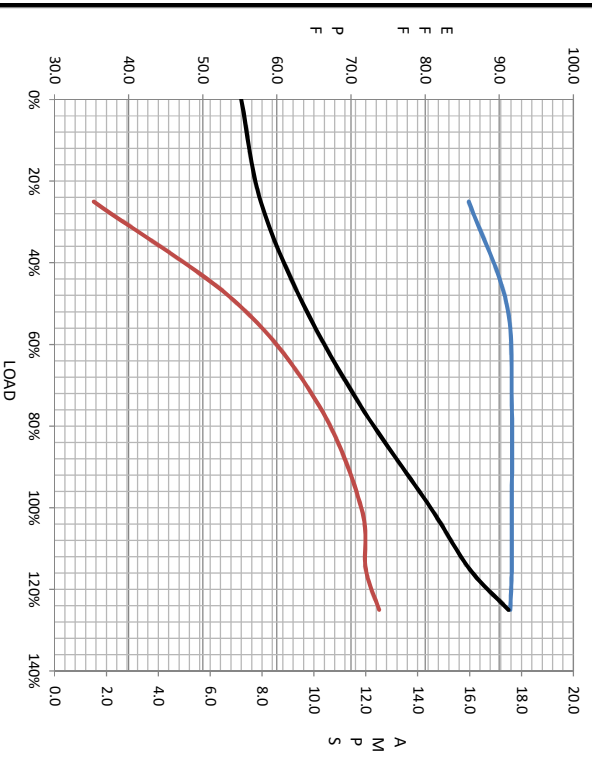
T FT-LB NONE V NONE HZ
 E NONE FT-LB NONE V NONE HZ



Motor Load Data						LR	
Load	0%	25%	50%	75%	100%	115%	125%
Current (Amps)	7.2	8.0	9.6	11.8	14.5	16.0	17.5
Torque (ft-lb)	0.00	11.3	22.5	33.8	44.3	51.0	56.3
RPM	1200	1196	1192	1188	1185	1177	1177
Efficiency (%)		85.9	91.0	91.7	91.7	91.5	91.5
P.F. (%)	11.2	35.3	54.7	65.7	71.4	72.0	73.8

Motor Speed Data						Information Block																					
Speed (RPM)	LR	Pull-Up	BD	Rated	Idle	HP	Sync. RPM	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Rotor/Shaft wk ²	Ref Wdg	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Conn. Diag	Additional Specifications:	

Speed (RPM)	LR	Pull-Up	BD	Rated	Idle
0	600	1100	1100	1185	1200
Current (Amps)	80.2	75.0	10.5	14.5	7.2
Torque (ft-lb)	83.2	71.5	105	44.3	0.00



HP	10.0
Sync. RPM	1200
Frame	256
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	38 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk ²	3.6 LB-Ft ²
Ref Wdg	T12906015 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	B-SS62272
Conn. Diag	004172.01
Additional Specifications:	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0000	0.0000
X1	X2
0.0000	0.0000
Xm	Xm
0.0000	0.0000

