PRODUCT INFORMATION PACKET



Model No: 171377.60

Catalog No: 171377.60

WATTSAVER® General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,

1800 & 1500 RPM, 286TC Frame, DP









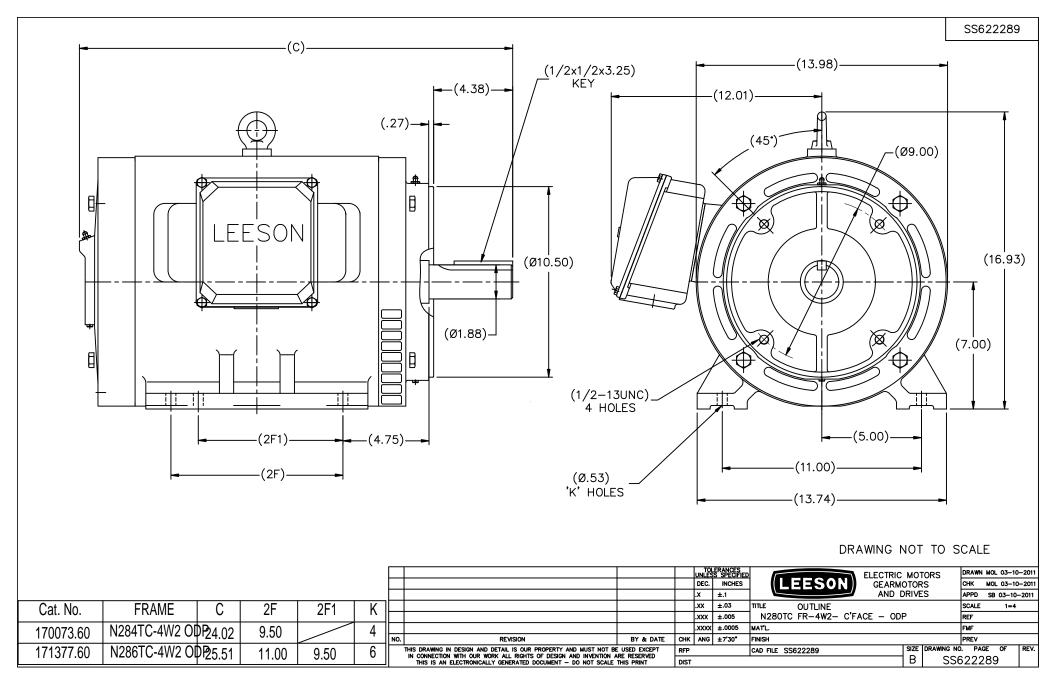
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	208-230/460 & 190/380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	286TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.1 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	78-71/35.5 & 86/43 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	Н
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Υ
CE	Υ	IP Code	12
Number of Speeds	1		

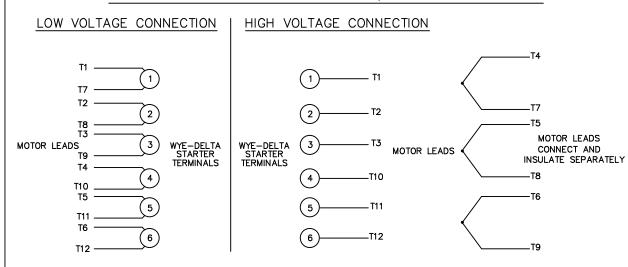
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.233 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	25.51 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1
Connection Drawing	004172.01	Outline Drawing	SS622289

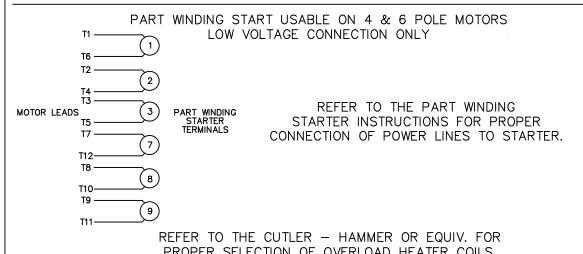
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WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.



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



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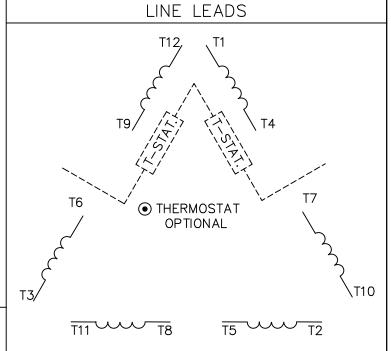
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DIST

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03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00		.xx	±.01	TITLE
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.
NO.	REVISION	BY & DATE	СНК	ANG	±1/2°	FINISH

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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							

ELECTRIC MOTORS

SIZE

DELTA - WYE CONNECTION DIAGRAM

DRAWN WLW 09/08/77 RPB 09/12/77 APPD JCW 09/12/77 SCALE 1=1

REF

REV.

03

FMF

PREV 004172 - 01

DRAWING NO.

6/28/2007 3:22:15 PM -

00417201

CAD FILE

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

CATALOG #: 171377.60

MOUNTING: F1/F2 CAPABLE

CONN. DIAGRAM: 004172.01

OUTLINE: SS622289

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WINDING #: T14504018 3

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
30&25	22.4&18.7	1800	1780&1480	286TC	DP	Н	В	

F	РΗ	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°с
	3	60/50	208-230/460&190/380	78-71/35.5&86/43	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.1&94.1	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	83&84.1	3/4 LOAD PF:	80	1/2 LOAD PF:	71	93.6	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.5 LB-FT	524 / 262	161 LB-FT 182 %	225 LB-FT 255 %	45

SOUND PRESSURE @ 3 FT.		SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
	75 dBA	85 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	472 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME	
DE	ODE	GREASE	SHAFITTE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	POLYREX EM	Т	NONE	NONE	AISI 1045 (C-240)	CAST IRON	
6312	6211	POLYREX EM						

	THERMO-PROTE	THERMISTORS	CONTROL	SPACE HEATERS		
THERMOSTATS PROTECTORS		WDG RTDs BRG RTDs				IHERMISTORS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE

NONE FT-LB NONE V NONE HZ

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