

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTD4022

Catalog No: U508

Fire Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 286TS Frame,
DP



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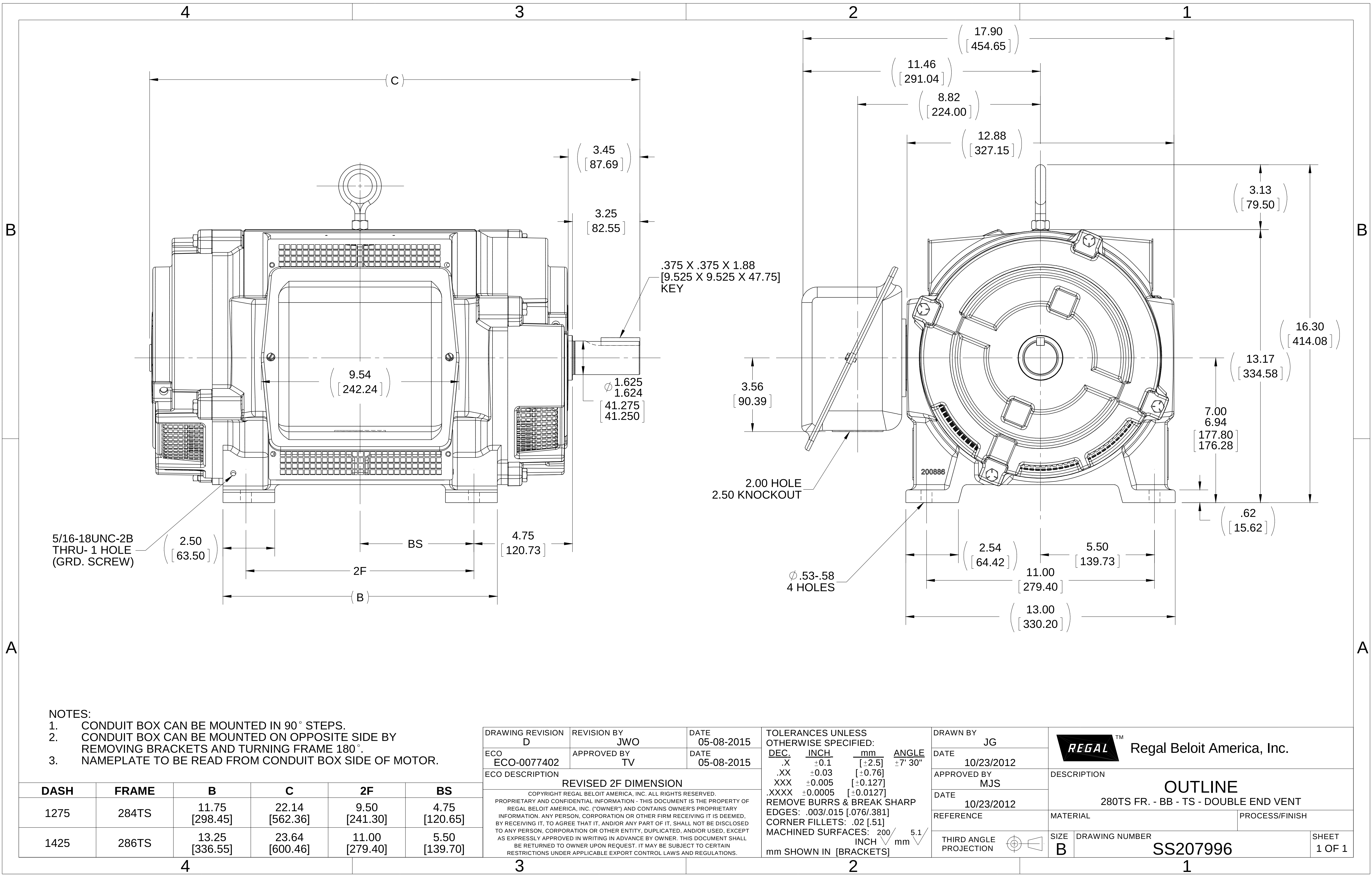
RegalRexnord

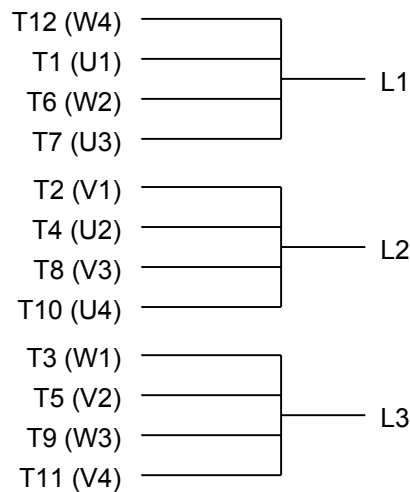
Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	3525 & 2940 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91.7 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	94/47 & 86/43 A	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	No	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

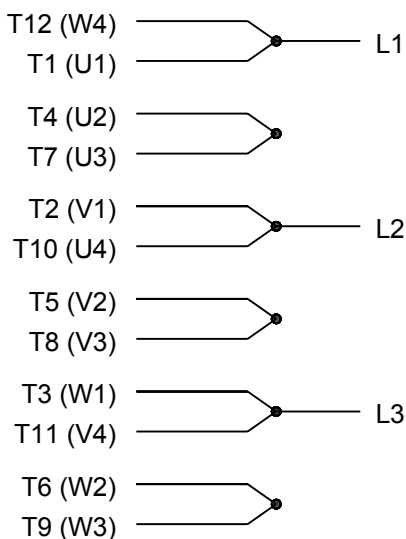
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.189 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	23.64 in
Frame Length	14.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.45 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS207996-1425	Connection Drawing	A-EE7308AA

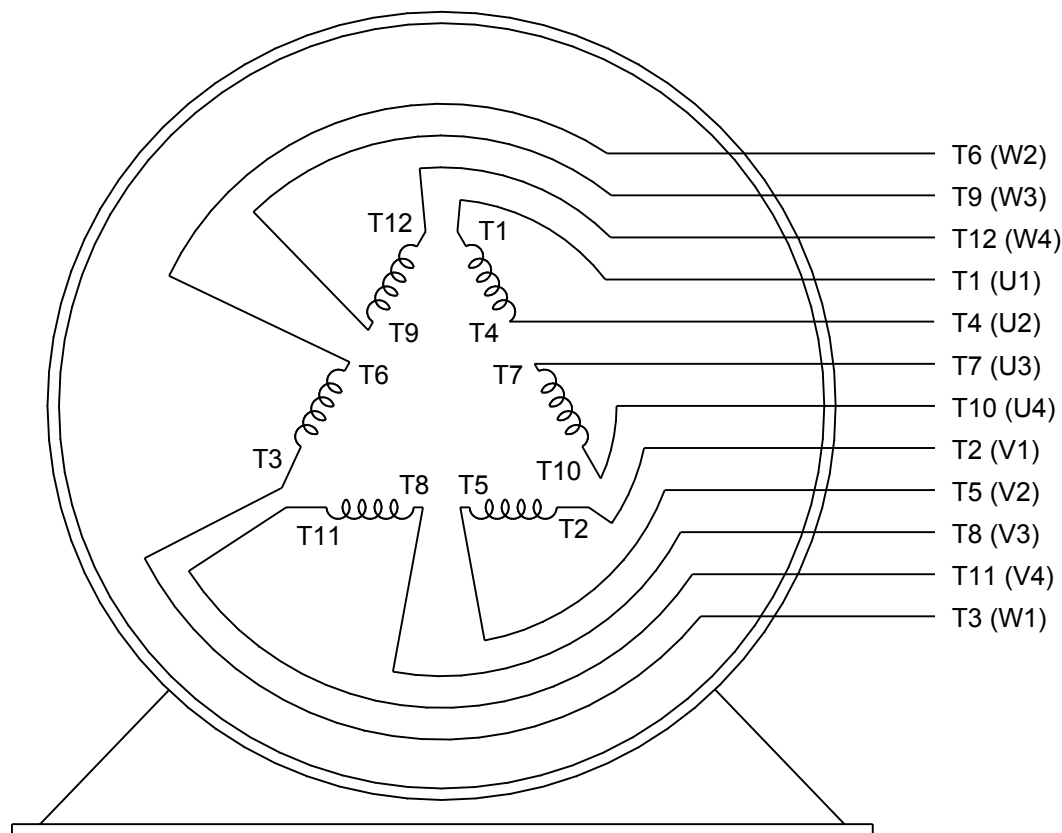




LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	THIRD ANGLE PROJECTION
DATE 01-12-1994	
APPROVED BY GK	
DATE 01-14-1994	
REFERENCE	



Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø-2/1 DELTA-12 LEADS

MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7308AA
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 286TSTDP4022 AD
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS207996-1425

WINDING#: K256295 NONE 12
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	3600	3525&2940	286TS	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	94/47&86/43	WYE START DELTA RUN	CONTINUOUS	B3	1.15/1.15	50	3300

FULL LOAD EFF: 91.7&91.7	3/4 LOAD EFF: 91	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&87	3/4 LOAD PF: 83	1/2 LOAD PF: 76	90.2	SQ CAGE IND RUN	30 / 15

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	580 / 290	106 LB-FT 179	166 LB-FT 280	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	1.55 LB-FT^2	28 LB-FT^2	15 SEC.	2	380 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	RODENT	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6311	6210	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE					
	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	

DATE: 06/21/2017 10:21:59 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TSDP4022

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	19.0	27.0	36.0	47.0	54.0	59.0	290	
Torque (ft-lb)	0.00	14.5	29.5	44.5	59.5	68.5	75.0	106	
RPM	3600	3585	3565	3550	3525	3,515	3510	0	
Efficiency (%)		85.5	90.2	91.0	91.7	91.0	90.2		
P.F. (%)	10.0	56.0	76.0	83.0	86.0	86.5	87.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	1900	3175	3525	3600	HP	40.0			
Current (Amps)	290	275	180	47.0	15.0	Sync. RPM	3600			
Torque (ft-lb)	106	110	166	59.5	0.00	Frame	286			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	DP			
						Construction	TDP			
						Voltage	30/460#190/381V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	50 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	1.55 Lb-Ft ²			
						Ref Wdg	K256295 NONE			
						Sound Pressure @ 1M	80 dBA			
						VFD Rating	NONE			
						Outline Dwg	B-SS207996-1425			
						Conn. Diag	A-EE7308AA			
						Additional Specifications:				
						0				
						0				
						EQUIV CKT (OHMS / PHASE)				
						R1	R2	X1	X2	Xm
						0.1210	0.1160	0.5350	0.5860	17.7250

Speed -Torque Curve

