

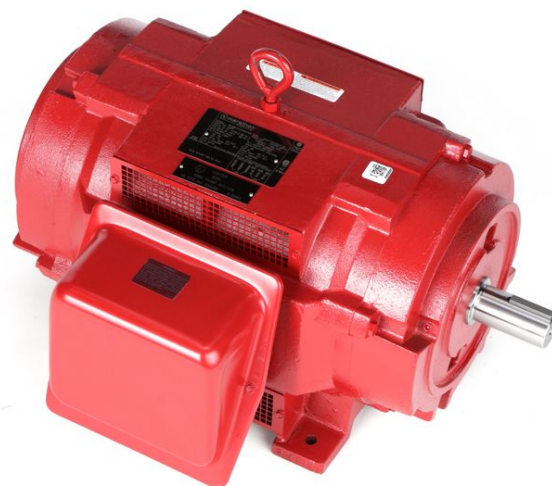
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTD4023

Catalog No: U509

40 HP Fire Pump Motor, 3 phase, 3600 RPM, 200/400 V, 286TS Frame, ODP
Fire Pump Motors



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RegalRexnord

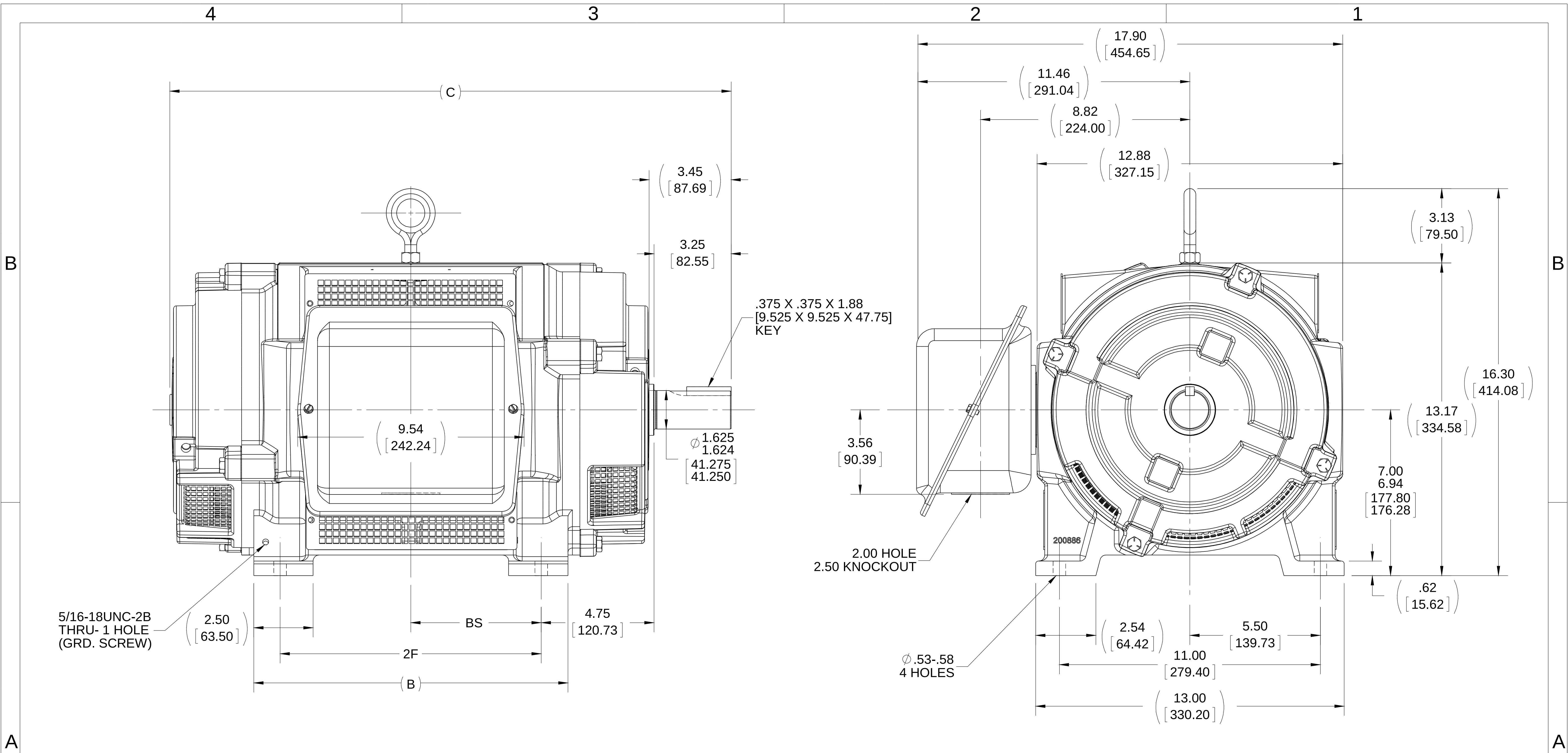
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	200/400 V
Current	108.0/54.0 A	Speed	3525 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
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

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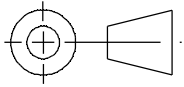


- NOTES:
- 1. CONDUIT BOX CAN BE MOUNTED IN 90° STEPS.
 - 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 - 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS
1275	284TS	11.75 [298.45]	22.14 [562.36]	9.50 [241.30]	4.75 [120.65]
1425	286TS	13.25 [336.55]	23.64 [600.46]	11.00 [279.40]	5.50 [139.70]

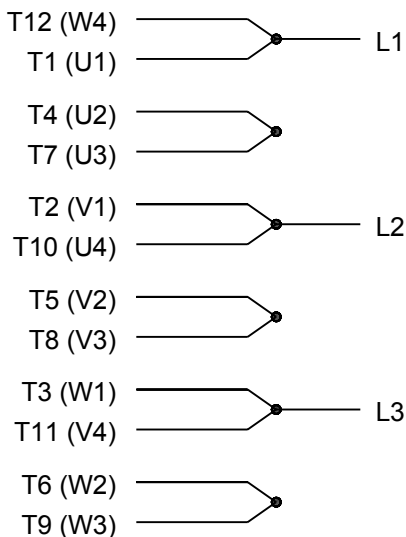
DRAWING REVISION D	REVISION BY JWO	DATE 05-08-2015
ECO ECO-0077402	APPROVED BY TV	DATE 05-08-2015
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 200 INCH 5.1 mm mm SHOWN IN [BRACKETS]			

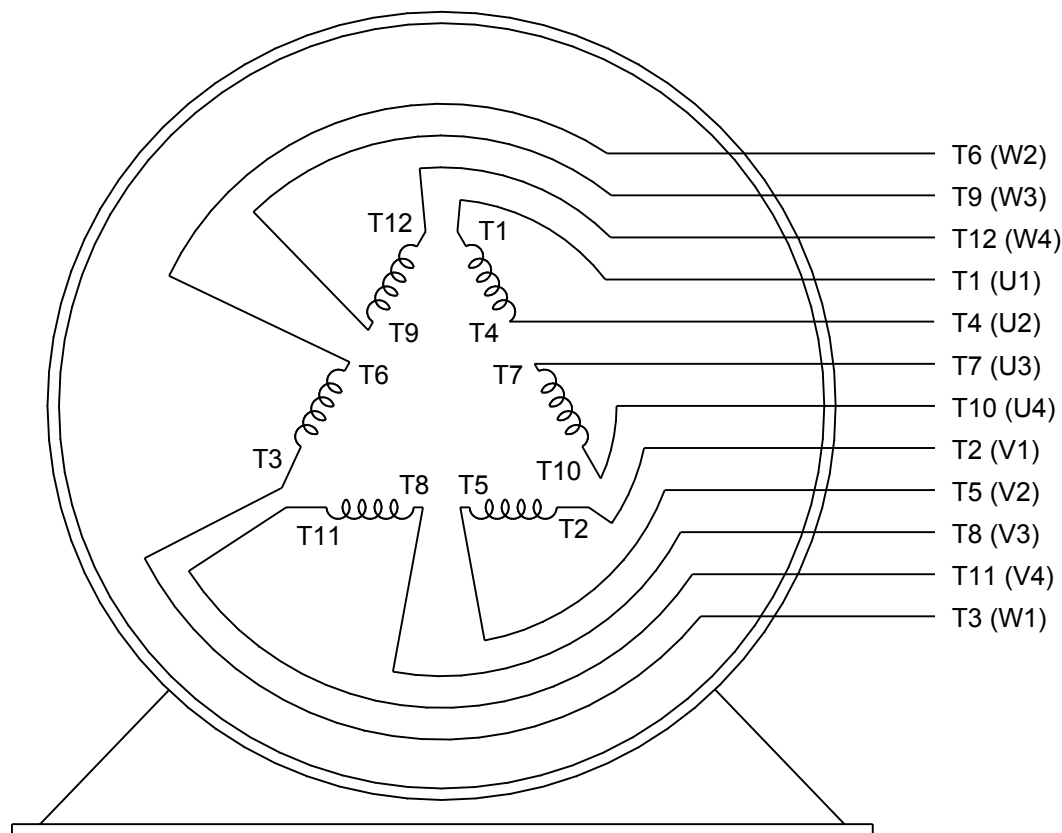
DRAWN BY JG	 Regal Beloit America, Inc.		
DATE 10/23/2012			
APPROVED BY MJS	DESCRIPTION OUTLINE 280TS FR. - BB - TS - DOUBLE END VENT		
DATE 10/23/2012			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER SS207996	SHEET 1 OF 1



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
DATE 01-12-1994
APPROVED BY GK
DATE 01-14-1994
REFERENCE
THIRD ANGLE PROJECTION



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#: 286TSTDP4023 CD
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS207996-1425

WINDING#: K256295 NONE 11
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

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

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200/400	108/54	WYE START DELTA RUN	CONTINUOUS	B3	1.15	50	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 83	1/2 LOAD PF: 76	90.2	SQ CAGE IND RUN	34.5 / 17.3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	667 / 333.5	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
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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: 06/27/2017 01:59:49 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TSTDP4023

Submittal

Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.3	21.9	31.1	41.4	54.1	62.1	67.9	334	
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)	334	316	207	54.1	17.3	Sync. RPM	3600																											
Torque (ft-lb)	106	110	166	59.5	0.00	Frame	286																											
— Efficiency (%) — P.F. (%) — Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25%</td><td>85</td><td>55</td><td>15</td></tr><tr><td>50%</td><td>90</td><td>75</td><td>35</td></tr><tr><td>75%</td><td>91</td><td>82</td><td>55</td></tr><tr><td>100%</td><td>92</td><td>86</td><td>75</td></tr><tr><td>125%</td><td>90</td><td>87</td><td>89</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	25%	85	55	15	50%	90	75	35	75%	91	82	55	100%	92	86	75	125%	90	87	89	Enclosure	DP			
						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25%	85	55	15																									
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						100%	92	86	75																									
						125%	90	87	89																									
						Construction	TDP																											
						Voltage	200/400	V																										
						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																														
0.0920	0.0880	0.4040	0.4430	13.4030																														

Speed -Torque Curve

