TEIKOKU CANNED MOTOR PUMP DATA SHEET

Messrs : Evonik Degussa Corporation

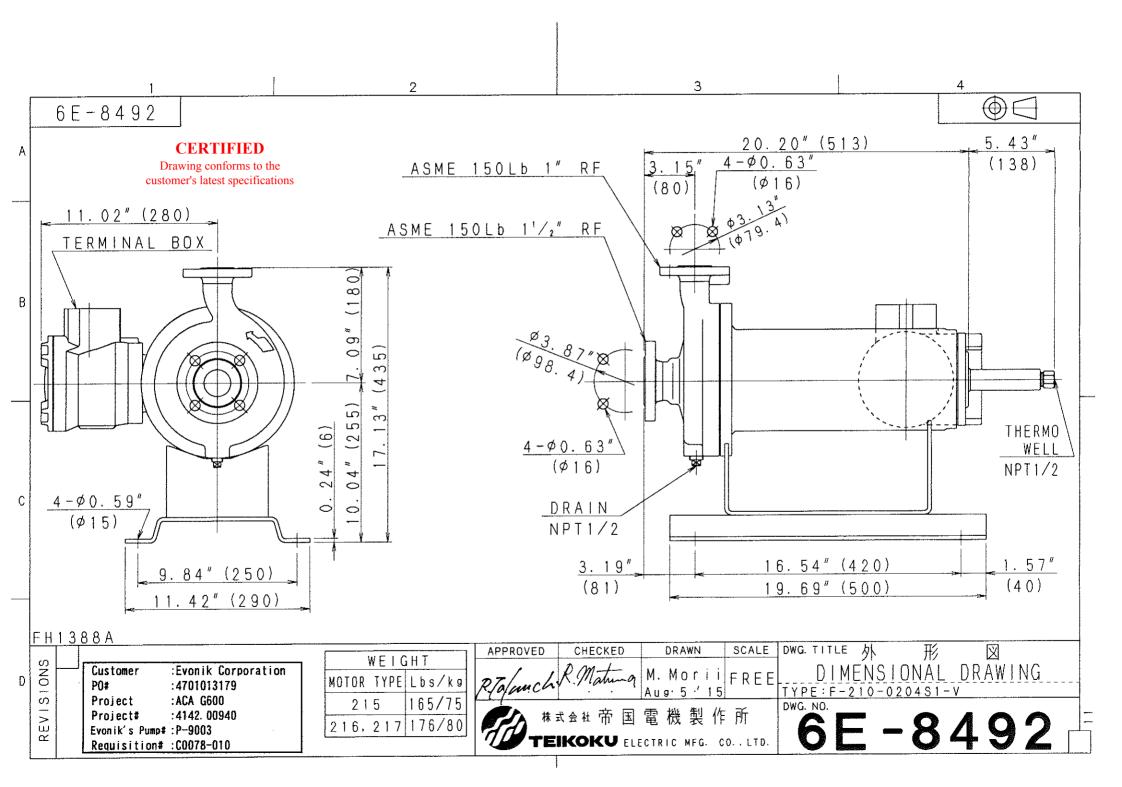
No. QFH-1389A

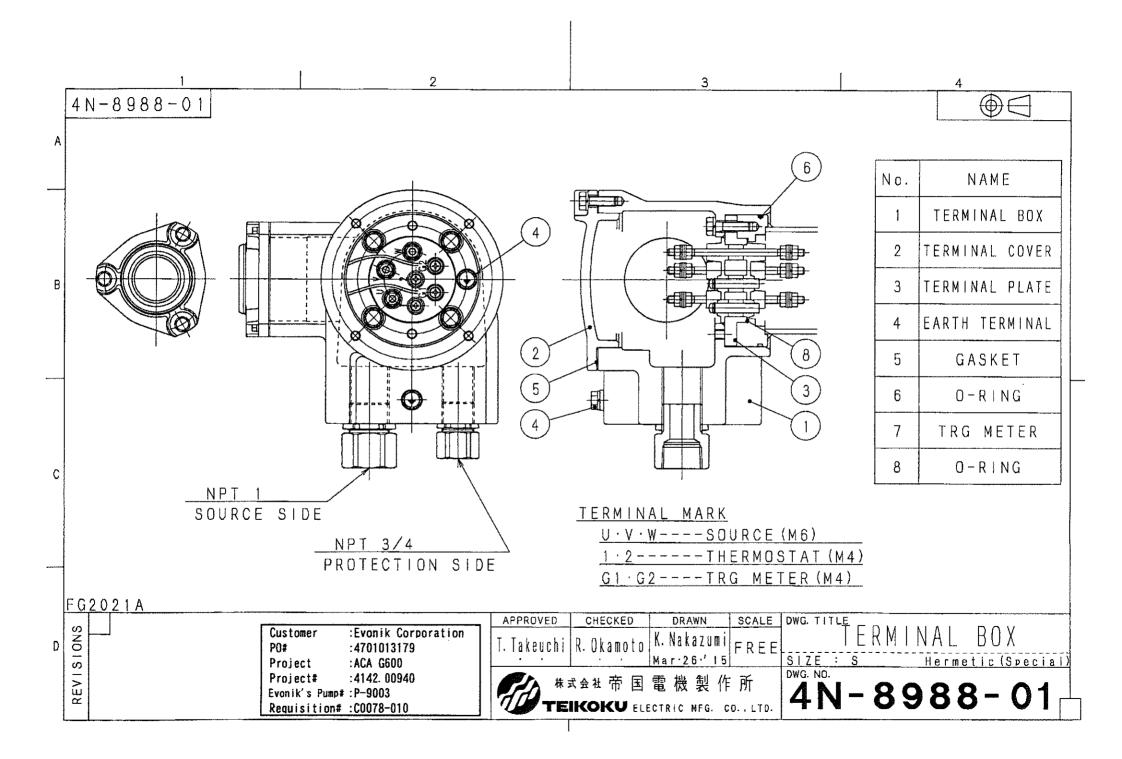
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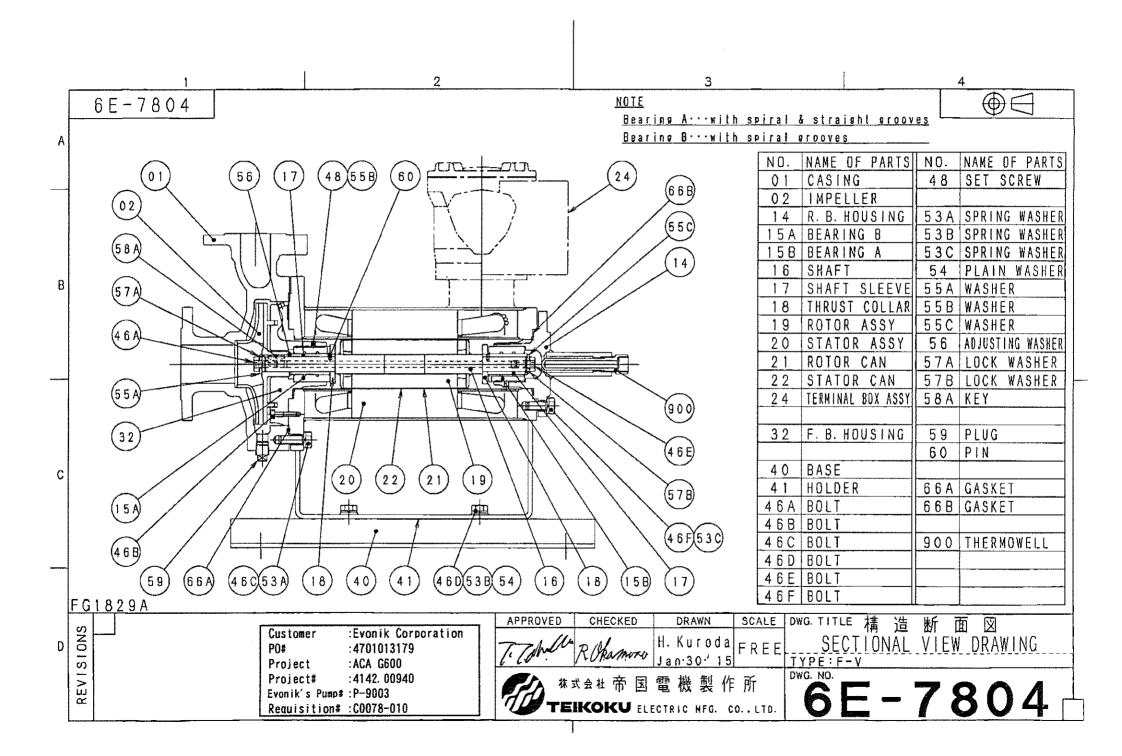
PDF: 1 K. Nakazumi

Aug. 10 2015

Order No. Job No.	: 470101: :	3179		CRTIFII g conforms		ne	Sign For Rece 〈For custmer)	TEIKOKU ELECTRIC MFG. CO., LTD
Project Name Item No. Item Name Model	: P-9003 :		customer's	latest spec					R. Takeuchi R. Matsumura M. Morii
				one	·····	40,			l
Total Head (m	.))	· 23 /	Casina		
Suction Press. NPSHava. Liquid Temperature (Descrific gravious of the second of the se	(barA): (m) es./Nor.) ty (Des.//Nor.) ign Tempe (kJ/(kg·k (BarA)	0.56~3. : 4.56 : Acetic (°C) Nor.) (mPa·s) rature (())	24 Discharge NPS Anhydride : 25 : 1.07 : 0.85 (°C): : 0.007	(m3/ Press. (MPz SHreq. (n / / Melting	/h) aG) m) Temp.	: 1.4 : : 1.4	Pump Gasket Motor Gasket	: S : S : S : S : S : S	CSS14(CF-8M 316 SS) CUS316(316 SS) CUS316(316 SS) CUS316L(316L SS) CUS316L(316L SS) CUS316L(316L SS) CUS316L(316L SS) CUS316C(316L SS) CUS316C(316L SS) CUS316C(316L SS)
Flushing or Bar			,				Other Gasket		
Liquid/S.Gr. Press.	(mPa·s) (MPaG)		•	- Flow		(I/min) :		: -	and the state of t
***						(0/ 11/1/)			DC
Dagian Proga					25		7 11 0		
Design Press • Code Applied			-			ish	1		
Nozzle Connec	tion: AS	ME					٦		
Nozzle			Size			Position	11	-	:
Suction	150LB		1-1/2"	RF		END	Min. Flow (ms/	n)	
Discharge Drain	150LB	····	<u> </u>						Spare Parts
Reverse							-		
Jacket Design	Proce	(MPa)					-		
Utilities Re		Media		Flow(Min.)		Connection			
Casing NO	NE						∃ ├───		
Motor NO									Accessories
Heet Ex. Ext Circl NO					├		41		
Motor (Stop)			L		J		-		
			Customer PO# Project Project# Evonik's P	:4701 :ACA :4142 ump#:P-9(1013′ G60(2. 009 003	179) 940	Terminal Box Sectional View Dwg.	: 6 : 4 : 6	E-8492 Allowable Piping N-8988-01 Forces and Woments : 4N-6993-01 E-7804 B Thermowell : 4N-7445
		Power S	Supply & Drive	Motor					
Thermal Class R.P.M.(rpm)	: 220 : 3600	1. 0.56-3.24 Discharge Press. (MFaG) 1. 4 Tapeller 1. 50514 (GF-88 316 SS) 1. 4. 56 NPShreq. (m) 1. 4 Tapeller 1. 50514 (GF-88 316 SS) 1. 4. 56 NPShreq. (m) 1. 4 Tapeller 1. 50514 (GF-88 316 SS) 1. 4. 56 NPShreq. (m) 1. 4 Tapeller 1. 50514 (GF-88 316 SS) 1. 4. 56 NPShreq. (m) 1. 4 Tapeller 1. 50514 (GF-88 316 SS) 1. 5. 6. 6. 7. 7.							
'oltage for prote Ory Run Protecti			Protection I	Device :	Iher	mostat b			
Terminal Box Power Cable Con Instrument Cable ATEX Marking	nduít e Conduit	: Stud/TI : NPT1 : NPT3/4	Cab				Painting Color Rotating Direct Monitoring	ion	: Light Gray : Yes
lemarks : ·T-USA#385330									
	ea Classit	fication	: Class. 1. Div	2. Gr.C&D	T2			SNI	
·Mechanical De	sign Temp	erature :	150°C (Pumps do	not run a	et thi	s temperature.	Pumps are not	/1510	
expected to	runction p	ost expe	rience of this	temperatu	re.)			Æ	







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14	CASING IMPELLER R. B. HOUSING SEARING B SEARING A SHAFT SHAFT SLEEVE IHRUST COLLAR ROTOR ASS' Y STATOR ASS' Y STATOR CAN	SUS SUS SUS SUS SUS SUS SUS SUS	(JIS Std./Eq. AST S14 / CF-8M 316 SS S14 / CF-8M 316 SS S14 / CF-8M 316 SS S14 / CF-8M 316 SS S16 or SCS14 / F 316 rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316 / 316 SS S316L / 316L SS S316L / 316L SS S316L / 316L SS S316 / 316 SS S304 / 304 SS OC / AISI 1020 S316 / 316 SS S304 / 304 SS	SS or CF-8M 31	6 SS	
14	R. B. HOUSING BEARING B BEARING A SHAFT SHAFT SLEEVE SHRUST COLLAR ROTOR ASS' Y ROTOR CAN STATOR CA	SUS SUS SUS SUS SUS SUS SUS SUS	S14 / CF-8M 316 SS SF316 or SCS14 / F 316 rbon Graphite rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316 / 316 SS	llite llite		
15A E 15B E 16 S 17 S 18 T 19 F 18 T	SEARING B SEARING A SHAFT SHAFT SLEEVE SHRUST COLLAR ROTOR ASS' Y ROTOR CAN STATOR CAN S	SUS Can Can SUS SUS SUS SUS SUS SUS SUS S	F316 or SCS14 / F 316 rbon Graphite rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316 / 316L SS S316 / 316 SS S316 / 316 SS S316 / 316 SS S304 / 304 SS S0C / AISI 1020 S316 / 316 SS	llite llite		
15A	SEARING B SEARING A SHAFT SHAFT SLEEVE SHRUST COLLAR ROTOR ASS' Y ROTOR CAN STATOR CAN S	Car Car SUS SUS	rbon Graphite rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS S316L / 316L SS S316L / 316L SS S316 / 316L SS S316 / 316 SS S316 / 316 SS S304 / 304 SS S0C / AISI 1020 S316 / 316 SS	llite llite		
15A B B B B B B B B B B B B B B B B B B B	SEARING B SEARING A SHAFT SHAFT SLEEVE SHRUST COLLAR ROTOR ASS' Y ROTOR CAN STATOR CAN S	Car Car SUS SUS	rbon Graphite rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS S316L / 316L SS S316L / 316L SS S316 / 316L SS S316 / 316 SS S316 / 316 SS S304 / 304 SS S0C / AISI 1020 S316 / 316 SS	llite llite		
15B E 16 S 17 S 18 T 19 F 19	SEARING A SHAFT SHAFT SLEEVE THRUST COLLAR ROTOR ASS' Y STATOR ASS' Y ROTOR CAN STATOR C	Car SUS SUS	rbon Graphite S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS S316L / 316L SS S316L / 316L SS S316 / 316 SS S316 / 316 SS S316 / 316 SS S304 / 304 SS DC / AISI 1020 S316 / 316 SS	llite	6 SS	
16 S 17 S 18 T 19 R 20 S 21 R 22 S 24 T 32 F 40 B 41 H 46A B 46B B 46C B 46B B 46C B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 57A L 57B L	SHAFT SHAFT SLEEVE SHAFT SLEEVE SHAFT SLEEVE SHAFT SLEEVE SHAFT SLEEVE SHAFT SOLLAR ROTOR ASS' Y STATOR ASS' Y STATOR CAN	SUS SUS SUS SUS SUS SUS SUS SUS SUS SUS	S316 / 316 SS S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS S316L / 316L SS S316 / 316L SS S316 / 316 SS S316 / 316 SS S304 / 304 SS S304 / 304 SS S316 / 316 SS	llite	6 SS	
17 S 18 T 19 R 20 S 21 R 22 S 24 T 32 F 40 B 41 H 46A B 46B B 46C B 46B B 46C B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	SHAFT SLEEVE THRUST COLLAR ROTOR ASS: Y STATOR ASS: Y ROTOR CAN STATOR CAN STATOR CAN STATOR GAN ERMINAL BOX ASS: S. B. HOUSING BOLT ROLT ROLT ROLT ROLT ROLT	SUS SUS SUS SUS SUS SUS SUS SUS SUS SUS	S316 / 316 SS + Ste S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS 200 / CI. No. 35 etc. S5316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 400 / Carbon Steel S316 / 316 SS S316 / 316 SS S304 / 304 SS OC / AISI 1020 S316 / 316 SS	llite	6 SS	
18	CHRUST COLLAR ROTOR ASS' Y STATOR ASS' Y ROTOR CAN STATOR CAN STAT	SUS	S316 / 316 SS + Ste S316L / 316L SS S316L / 316L SS S316L / 316L SS 200 / CI. No. 35 etc. SF316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel S316 / 316 SS S316 / 316 SS S304 / 304 SS OC / AISI 1020 S316 / 316 SS	llite	6 SS	
19 R 20 S 21 R 22 S 21 R 22 S 24 T 32 F 32 F 40 B 41 H 46A B 46B B 46C B 46B B 46C B 46C B 46C B 53A S 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	ROTOR ASS' Y STATOR ASS' Y ROTOR CAN STATOR	SUS SUS SUS SUS SUS SUS SUS SUS SUS SUS	S316L / 316L SS S316L / 316L SS S316L / 316L SS 200 / CI. No. 35 etc. SF316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 400 / Carbon Steel S316 / 316 SS S316 / 316 SS S304 / 304 SS OC / AISI 1020 S316 / 316 SS		6 SS	
20 S 21 F 22 S 24 T 32 F 32 F 40 B 41 H 46A B 46B B 46C B 46B B 46C B 53A S 53B S 53C S 54 P 55A W 55B W 55B W 55C W 56 A 57A L 57B L	STATOR ASS'Y ROTOR CAN STATOR CAN	SUS	S316L / 316L SS 200 / CI. No. 35 etc. F316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 5316 / 316 SS 5316 / 316 SS 5304 / 304 SS 0C / AISI 1020 5316 / 316 SS	SS or CF-8M 31	6 SS	
21	ROTOR CAN STATOR CAN FERMINAL BOX ASS F. B. HOUSING BASE FOLDER BOLT BOLT BOLT BOLT BOLT BOLT	SUS	S316L / 316L SS 200 / CI. No. 35 etc. F316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 5316 / 316 SS 5316 / 316 SS 5304 / 304 SS 0C / AISI 1020 5316 / 316 SS	SS or CF-BM 31	6 SS	
22 S 24 T 32 F 32 F 40 B 41 H 46A B 46B B 46C B 46C B 46C B 46F B 53A S 53B S 53C S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	STATOR CAN FERMINAL BOX ASS F. B. HOUSING BASE BOLT BOLT BOLT BOLT BOLT	SUS	S316L / 316L SS 200 / CI. No. 35 etc. F316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 5316 / 316 SS 5316 / 316 SS 5304 / 304 SS 0C / AISI 1020 5316 / 316 SS	SS or CF-8M 31	6 SS	
32 F 40 B 41 H 46A B 46B B 46C B 46C B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	GASE HOUSING BASE HOLDER BOLT BOLT BOLT BOLT BOLT	SUS SS4 SUS SUS SUS SUS SUS	SF316 or SCS14 / F 316 400 / Carbon Steel 400 / Carbon Steel 8316 / 316 SS 8316 / 316 SS 8304 / 304 SS 90C / AISI 1020 8316 / 316 SS	SS or CF-8M 31	6 SS	
40 8 41 H 46A B 46B B 46C B 46C B 46C B 553A S 553B S 553B S 553C S 554 P 555A W 555B W 555C W 56 A 57A L 57B L	BASE HOLDER BOLT BOLT BOLT BOLT BOLT BOLT	\$\$4 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5	400 / Carbon Steel 400 / Carbon Steel 8316 / 316 SS 8316 / 316 SS 8304 / 304 SS 900 / AISI 1020 8316 / 316 SS	SS or CF-8M 31	6 SS	
40 8 41 H 46A B 46B B 46C B 46C B 46C B 553A S 553B S 553B S 553C S 554 P 555A W 555B W 555C W 56 A 57A L 57B L	BASE HOLDER BOLT BOLT BOLT BOLT BOLT BOLT	\$\$4 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5 \$\$5	400 / Carbon Steel 400 / Carbon Steel 8316 / 316 SS 8316 / 316 SS 8304 / 304 SS 900 / AISI 1020 8316 / 316 SS			
41 H 46A B 46B B 46C B 46C B 46C B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 57A L 57B L	IOLDER BOLT BOLT BOLT BOLT BOLT BOLT	\$US \$US \$US \$US \$US \$US \$US	3316 / 316 SS 3316 / 316 SS 3316 / 316 SS 3304 / 304 SS 0C / AISI 1020 3316 / 316 SS			
41 H 46A B 46B B 46C B 46C B 46C B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 57A L 57B L	IOLDER BOLT BOLT BOLT BOLT BOLT BOLT	\$US \$US \$US \$US \$US \$US \$US	3316 / 316 SS 3316 / 316 SS 3316 / 316 SS 3304 / 304 SS 0C / AISI 1020 3316 / 316 SS			
46A B 46B B 46C B 46D B 46E B 46F B 53A S 53A S 53B S 53C S 54 P 55A W 55B W 55C W 57A L 57B L	OOLT FOLT FOLT FOLT FOLT	SUS SUS SUS SUS SUS	S316 / 316 SS S316 / 316 SS S304 / 304 SS OC / AISI 1020 S316 / 316 SS			
46B B 46C B 46D B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	OLT OLT OLT OLT OLT	SUS SUS SUS SUS	S316 / 316 SS S304 / 304 SS DC / AISI 1020 S316 / 316 SS			
46C B 46D B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	BOLT BOLT BOLT	\$US \$20 \$US \$US	S304 / 304 SS DC / AISI 1020 S316 / 316 SS			
46D B 46E B 46F B 53A S 53B S 53C S 54 P 55A W 55B W 55C W 57A L 57B L	SOLT SOLT SOLT	\$20 \$US \$US	OC / AISI 1020 S316 / 316 SS			
46E B 46F B 48 S 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	BOLT BOLT	SUS SUS	S316 / 316 SS			
46F B 48 S 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	OLT	SUS				
48 S 53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L			5304 / 304 SS			
53A S 53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L	SET SCREW	2112				
53B S 53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L		SUS	S316 / 316 SS			
53C S 54 P 55A W 55B W 55C W 56 A 57A L 57B L	PRING WASHER	SUS	5304 / 304 SS			
54 P 55A W 55B W 55C W 56 A 57A L 57B L	PRING WASHER	SWF	H / Carbon Steel			
55A W 55B W 55C W 56 A 57A L 57B L	PRING WASHER	SUS	S304 / 304 SS			
55B W 55C W 56 A 57A L 57B L	LAIN WASHER	SPC	CC / Carbon Steel			
55C W 56 A 57A L 57B L	ASHER .	SUS	S316L / 316L SS			
56 A 57A L 57B L	ASHER .	SUS	S316L / 316L SS			
56 A 57A L 57B L	iasher		316L / 316L SS			
57A L 57B L	DJUSTING WASHER	· · · · · · · · · · · · · · · · · · ·	S316L / 316L SS	. ,		
57B L	OCK WASHER		S316L / 316L SS			
	OCK WASHER		316L / 316L SS			
	ΈΥ	····	3316 / 316 SS			
59 P	LUG	SUS	3316 / 316 SS			
60 P	rin	SUS	3316 / 316 SS			
	ASKET		19007-LC / PTFE	1	ustomer	:Evonik Corporatio
66B G	ASKET		19007-LC / PTFE	i)# roject	:4701013179 :ACA G600
900 T	HERMOWELL	SUS	316 / 316 SS		roject#	:4142. 00940
					onik's Pump	# :P-9003
<u> </u>					muicitions	
'₹/		APPROVED	CHECKED		equisition:	≠ :C0078-010

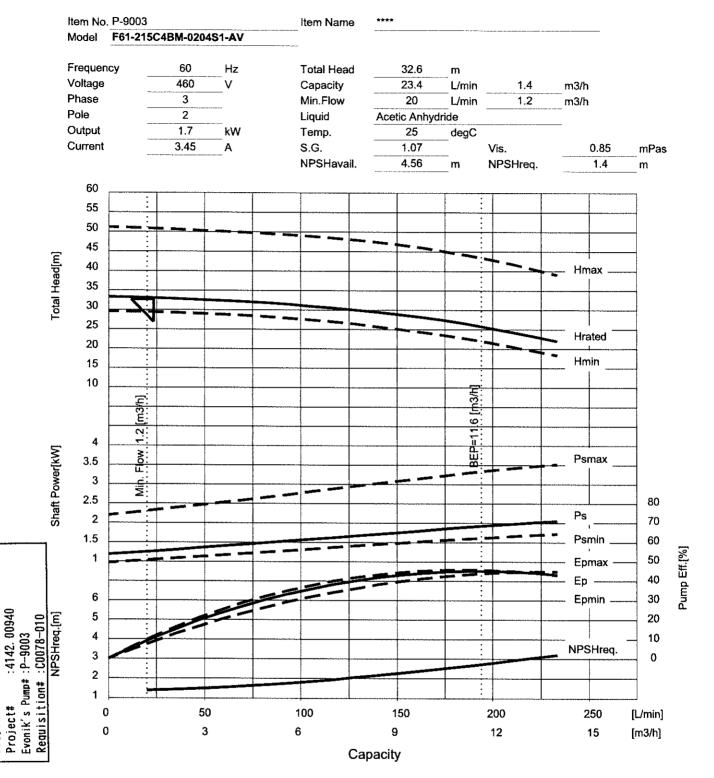




ESTIMATED PERFORMANCE CURVE

Date: Aug. 07. 2015 No: E18H0022-02

No : E18H0022-02 Dwg. No. : SFH-1389A



Remarks:

Evonik Corporation

4701013179

Customer PO# Project

ACA G600

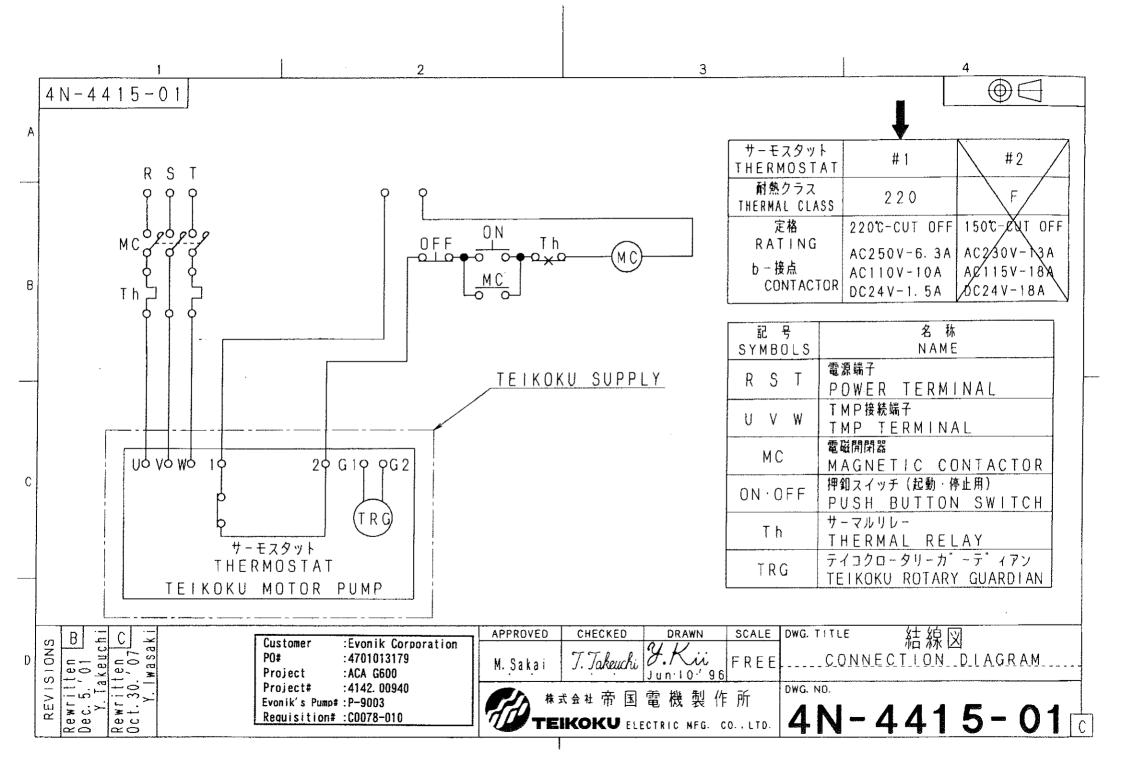
- Shut-off head: 33.3m
- 33m, 10.6%, 1.27kW, 3426rpm @ rated flow
- 14m3/hr, 2.1kW @ EOC
- 3.52kW @ EOC (max. dia.)

- Ns : 12.51, SSS : 5968
- Impeller Dia(mm):166(Max)/156(Rated)/130(Min)
- Output:2.28(hp)

		Total Market
REV.	Date	Description

APPROVED BY	CHECKED BY	DRAWN BY
RTofemel	R. Mahone,	M.Morii

TEIKOKU ELECTRIC MFG. CO., LTD.



Customer

:Evonik Corporation

P0#

:4701013179

Project Project# :ACA G600 :4142.00940

Evonik's Pump#:P-9003 Requisition#:C0078-010

RECOMMENDED SPARE PARTS LIST

ΤΥ	TYPE C.D. 4.0.2.1							
	F-V,	R 210-S	SB-4031			031		
№o.	PARTS NAME	DIMENSION	MATER	RIAL	FOR 1SETS	REMARKS		
1	BEARING B	9.1.90°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Carbon Graphite		1	#15A 48×28×50 (mm)		
2	BEARING A (with spiral & straight grooves)	1.97" 88" 01116 1.97"	Carbon Graphite		1	#15B 48×28×50 (mm)		
3	SHAFT SLEEVE	2.17"	316 SS (SUS316) + Stellite		2	#17 28×20×55 (mm)		
4	GASKET	φ7.60° (80°) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	PTFE		1	#66A 193×171×1.5(mm)		
15	GASKET	\$3.66°° \$0.03°° \$0.00° \$0.0	PTFE		1	#66B 93×77×1.5(mm)		
6	THRUST COLLOR	0.28°° 	316 SS (SUS316) + Stellite		2	#18 53×20×7(mm)		
7	LOCK WASHER	\$0.07 1.0.08	316L SS (SUS316L)		2	#57A, #57B 20×10.5×1.5(mm)		
来歷 REV.	B Rewritten (Jun. 15°04)K. M	株式会社 帝国電機製 TEIKOKU ELECTRIC MFG.	j	APPROVED GOGLA		CKED DRAWN Y. Maruyama Aug. 25. '99		

