



MOTOR TECHNICAL DATA SHEET

Motor Type	PPA132MA-6
Frame Size	132MA
Output kW	4
Poles	6
Phases	3
Volts	380
Connection	DELTA
Hz	50

F.L. Current(I_N)	9.0 Amps
Locked Rotor Current(I_L/I_N)	5.7
F.L. Efficiency	86.9 %
F.L. power factor	0.78
F.L. Speed	970 r/m
F.L. Torque(T_N)	39.4 Nm
Locked Rotor Torque(T_L/T_N)	1.9
Break Down Torque(T_B/T_N)	2.2
Pull Up Torque(T_U/T_N)	1.5

Insulation Class	H
F.L. Winding Temp Rise	< 80 K

Moment of Inertia($J=GD^2/4$)	0.009 kgm ²
Weight of Motor	91 kg

F.L.: Full Load

This data is provided for guidance only. Subject to change without notice. Subject to tolerances as per AS1359/IEC50034-1



19 Corporate Avenue
Rowville 3178
Victoria Australia

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Testing@cmggroup.com.au
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Performance Curves

Motor Type: PPA132M-6

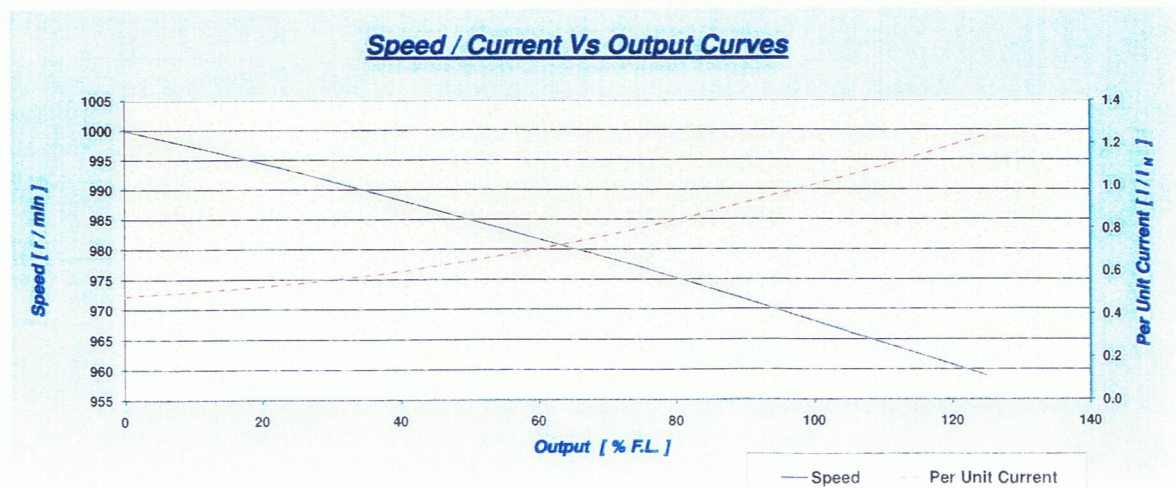
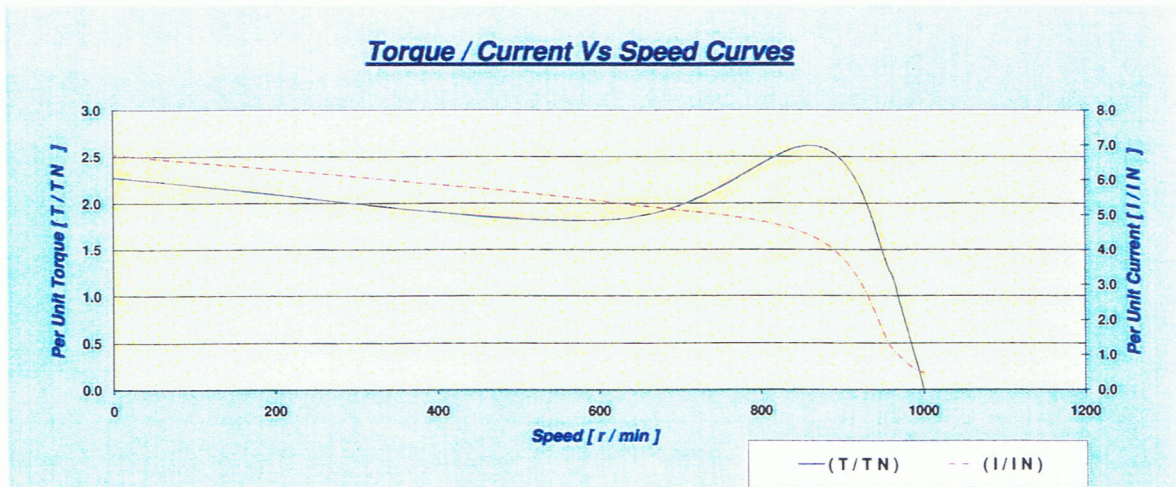
kW: 4

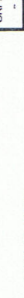
Volts: 400

Hz: 50

RPM: 968

TR Reference: PP1653-1N/405



 CMG TECHNOLOGY P/L	19 CORPORATE AVE ROWVILLE VIC 3178 Ph: (03) 9237 4000 Fax: (03) 9237 4029 www.cmggroup.com.au			DRAFTING STANDARD AS 1100	SIZE A3	TITLE PPA132M B3/B5 MOTOR - Ø38 SHAFT	GRP. - PART No. - FPM No. -	DRG. No. P313M40B
	ORIGINAL ISSUE	DATE 30/10/02						
ALTERATION	DATE	DRN. APP.	NPI/OR	SCALE N.T.S.	DATE 30/10/02	DRN. G. WELIN	CKD. DATE 11/11/02	CKD. A. KOYA

PINFLEX COUPLINGS

Table 1

The PinFlex coupling consists of two cast iron flanges, connected by means of pins but cushioned by a flexible rubber impregnated disc. To facilitate ease of fitting of the coupling to the shafts, the well-known "Taper Bush" bushings are used. Available with either standard flanges or reverse flanges or a combination of both. When ordering, please specify which is required.

EXAMPLE:

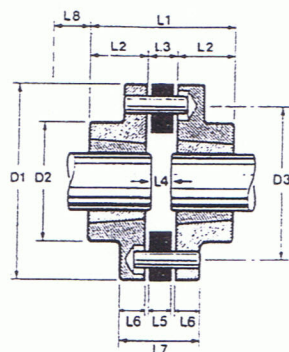
Calculate PinFlex coupling required on a rod mill drive. Power transmitted 7,0 kW at 960 rpm. Shaft size 50 mm.

STEP 1. Service factor 1,5.

STEP 2. Design power = $7,0 \times 1,5 = 10,5$ kW.

STEP 3. Referring to Table 2 at 960 rpm, a size 178 PinFlex coupling is required.

STEP 4. Referring to Table 3, check maximum bore. Maximum bore for 178 PinFlex is 60 mm. Bore of 50 mm is in order.



Type S — Standard Flange

Type R — Reverse Flange

Normal service — Factor 1,0

General application such as agitators, compressors (centrifugal plus three or more cylinders), conveyors, elevators, fans, pumps, screws, etc.

Severe Service — Factor 1,5

Pulsating and varying loads such as compressors (1 or 2 cylinders), crushing plant, mills, pump (1 or 2 cylinders), saw mill machinery.

Table 2 — Power rating (kW)

Speed rev/min	PINFLEX COUPLING Size							
	67	83	102	134	178	204	254	318
10	0.02	0.04	0.07	0.16	0.35	0.80	1.86	5.37
20	0.05	0.09	0.14	0.32	0.70	1.60	3.76	10.6
40	0.10	0.18	0.28	0.64	1.41	3.20	7.43	20.7
60	0.16	0.27	0.43	0.96	2.11	4.81	11.1	30.2
80	0.21	0.36	0.57	1.28	2.82	6.42	14.8	39.2
100	0.26	0.45	0.72	1.60	3.52	8.06	18.6	47.7
150	0.37	0.65	1.04	2.33	5.11	11.6	26.9	68.9
200	0.48	0.83	1.34	2.97	6.53	14.8	34.5	88.0
250	0.57	0.99	1.58	3.53	7.76	17.7	40.9	105.0
300	0.61	1.12	1.79	4.01	8.80	20.1	46.5	119.0
350	0.72	1.23	1.97	4.39	9.62	21.9	50.7	132.0
400	0.79	1.32	2.11	4.71	10.4	23.6	54.6	145.0
500	0.90	1.45	2.36	5.27	11.6	26.4	61.2	162.0
600	0.99	1.62	2.58	5.77	12.7	28.9	66.9	175.0
720	1.07	1.76	2.81	6.29	13.8	31.5	72.8	189.0
800	1.13	1.86	2.97	6.64	14.6	33.2	76.8	198.0
960	1.22	2.02	3.23	7.24	16.0	36.2	84.0	211.0
1 000	1.24	2.06	3.30	7.39	16.3	36.9	85.8	214.0
1 200	1.36	2.24	3.59	7.98	17.6	40.1	93.3	240.0
1 400	1.46	2.40	3.83	8.58	18.8	42.8	99.2	261.0
1 440	1.48	2.44	3.88	8.68	19.0	43.3	100.0	264.0
1 600	1.57	2.60	4.07	9.10	20.0	45.5	105.0	274.0
1 800	1.68	2.76	4.30	9.62	21.2	48.1	111.0	—
2 000	1.80	2.95	4.51	10.2	22.4	50.7	—	—
2 400	2.03	3.30	4.99	11.3	24.9	56.2	—	—
2 880	2.29	3.74	5.54	12.7	27.9	60.6	—	—
3 000	2.36	3.85	5.68	13.1	28.6	—	—	—
3 600	2.73	4.39	6.37	14.8	—	—	—	—

The figures in bold type are for standard motor speeds. 

Table 3 — Physical Characteristics and Dimensions

Size	Ø Bush No.	Max Bore Sizes mm	Mass kg	D ₁	D ₂	D ₃ Nom.	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	Pins per flange	
															No.	Dia. Nom.
67	1108	28	1.2	67	—	51	58	22	14	+	11	22	58	29	3	8
83	1210	32	1.8	83	—	64	66	25	16	+	13	25	66	38	3	10
102	1210	32	2.5	102	67	76	66	25	16	+	13	14	44	38	4	10
134	1610	42	4.5	134	83	102	70	25	20	+	16	18	56	38	4	13
178	2517	60	10.2	178	124	143	108	44	20	+	16	22	67	48	5	16
204	2517	60	13.6	204	124	162	115	44	27	+	22	25	77	48	6	19
254	3020	75	34.9	254	152	197	139	51	37	+	32	35	107	54	6	25
318	3535	90	66.2	318	178	248	228	89	50	+	45	41	132	67	7	32

L₃ Wrench clearance to allow for tightening and loosening the bush on the shaft. The use of a shortened wrench will permit this dimension to be reduced.

MAINTENANCE

Series 124A, 4124A, 126A, 4126A, 123A, 4123A, 127A, and 4127A pumps are designed for long, trouble-free service life under a wide variety of application conditions with a minimum of maintenance. The points listed below will help provide long service life.

LUBRICATION: External lubrication must be applied slowly with a hand gun to all lubrication fittings every 500 hours of operation with multi-purpose grease, NLGI # 2. Do not over-grease. Applications involving very high or low temperatures will require other types of lubrication. **Refer to Engineering Service Bulletin ESB-515.** Consult factory with specific lubrication questions.

PACKING ADJUSTMENT: New packed pumps require initial packing adjustment to control leakage as packing "runs in". Make initial adjustments carefully and do not over-tighten packing gland. After initial adjustment, inspection will reveal need for packing gland adjustment or packing replacement. **Refer to instructions under "Disassembly," and "Assembly," page 6,** regarding repacking pump.

CLEANING PUMP: Keep pump as clean as possible. This will facilitate inspection, adjustment and repair work and help prevent overlooking a dirt covered grease fitting.

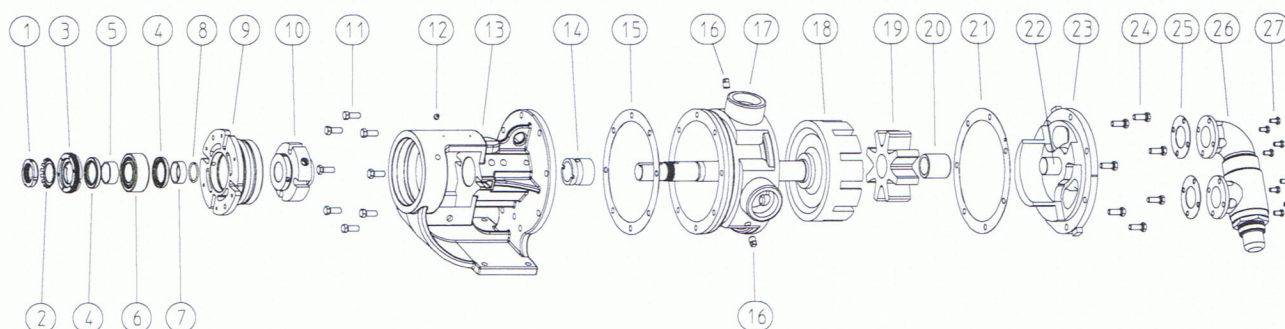
STORAGE: If pump is to be stored, or not used for six months or more, pump must be drained and a light coat of light oil must be applied to all internal pump parts.

Lubricate fittings and apply grease to pump shaft extension. Viking suggests rotating pump shaft by hand one complete revolution every 30 days to circulate the oil. Tighten all pump assembly bolts before putting pump in service after being stored.

SUGGESTED REPAIR TOOLS: The following tools must be available to properly repair series 124A, 4124A, 126A, 4126A, 123A, 4123A, 127A, and 4127A pumps. These tools are in addition to standard mechanics' tools such as open-end wrenches, pliers, screwdrivers, etc. Most of the items can be obtained from an industrial supply house.

1. Soft headed hammer
2. Allen wrenches (some mechanical seals and set collars)
3. Packing hooks, flexible (packed pumps)
4. Mechanical seal installation sleeve.
2-751-002-900 for 1.125 inch seal; H-HL pumps.
2-751-003-900 for 1.4375 inch seal; K-LL pumps.
5. Bearing locknut spanner wrench
(Source: # 471 J.H. Williams & Co. or equal)
6. Spanner wrench, adjustable pin type for use on bearing housing.
(Source: # 482 J.H. Williams & Co. or equal)
7. Brass bar
8. Arbor press

REPAIR: MODEL H, HL, K, KK, L, LQ and LL CARTRIDGE MECHANICAL SEAL PUMPS



ITEM	NAME OF PART	ITEM	NAME OF PART	ITEM	NAME OF PART
1	Locknut	10	Cartridge Seal	19	Idler and Bushing
2	Lockwasher	11	Capscrew for Bracket	20	Idler Bushing
3	End Cap	12	Grease Fitting	21	Head Gasket
4	Lip Seal	13	Bracket and Bushing	22	Idler Pin
5	Bearing Spacer Collar (Outer)	14	Bracket Bushing	23	Head and Idler Pin
6	Ball Bearing	15	Bracket Gasket	24	Capscrew for Head
7	Bearing Spacer Collar (Inner)	16	Pipe Plug	25	Relief Valve Gasket
8	Ring Half Round (Not H, HL)	17	Casing (Tapped or Flanged)	26	Internal Relief Valve
9	Bearing Housing	18	Rotor and Shaft	27	Capscrew for Valve

FIGURE 4
(EXPLODED VIEW PARTS FOR SERIES 4123A, 4124A, 4124AE, 4126A, AND 4127A MODELS)

Mather+Platt

HYDROSTATIC TEST CERTIFICATE

Order No. LPS30 0 0ENG10 AP001 – LPS 30	I.O. No. M1270
Customer: Lesedi	Contract: 027010
Description: HL 4195 RV Pump	Drawing No.

CHARACTERISTICS	DESIGNATION	INSTRUMENT NO.
Type of Pump	Hand Pump	N/A
Pressure gauge range	0 – 50 BAR	C0064
Date of calibration	12.12.2012	
Test Medium	Water	

Date Tested: 1st August 2013

Test Pressure: 10 BAR

Time Period: 10 Minutes

Result: ACCEPTED

CUSTOMER ACCEPTANCE		
COMPANY	NAME	SIGNATURE

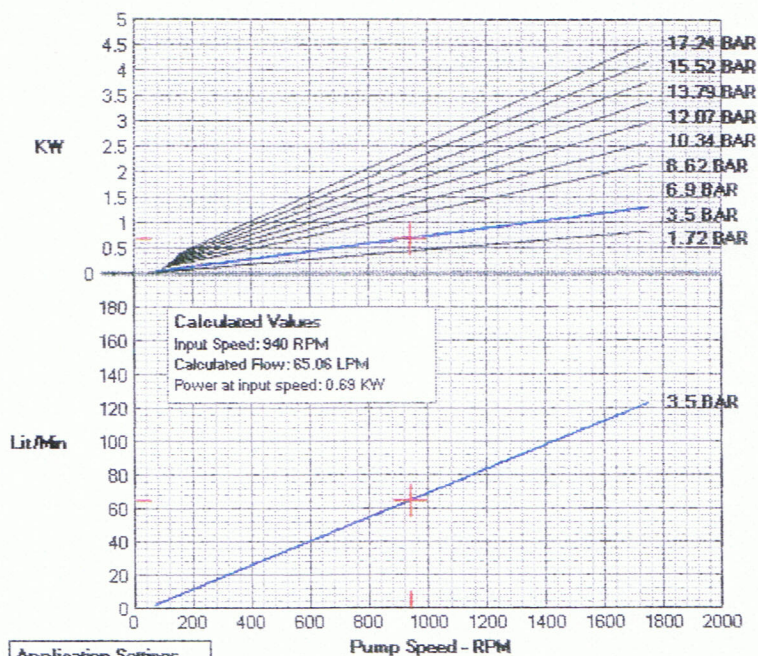
QUALITY INSPECTORS' SIGNATURE: 

MATHER & PLATT (PTY) LTD
PO Box 14733 Wadeville 1422
28 Nagington Road Wadeville 1407
Tel: (011) 824-4210 Fax: (011) 824-2770

PUMP SELECTION OPTIONS	
Start here	
Select:	Plot curves What is this?
PUMP CONFIGURATION	
Location Other	
Pump Series 4195	Pump Size HL
APPLICATION SETTINGS	
Viscosity 25.8 cSt	Differential Pressure 3.5 BAR
Temperature 45 C	Specific Gravity .9 Defaults
OPERATING CONDITIONS	
Flow Rate - Speed Specification	
Instructions	
☐ Flow Rate ☒ Speed	
940 RPM Liter / Min	
GRAPH DISPLAY	
Flow Units Liter / Min	Power Units KW
Pressure Units BAR	
User Notes 00ENG10 - AP001 - LPS30	
Draw Curves Reset	
PRINTING	
Output Size 8.5 x 11 in. Printer Friendly	
SUPPORT	
User Profile	
Help Guide	
View License	
Pump Selector Home	

Differential Pressure Performance Curve

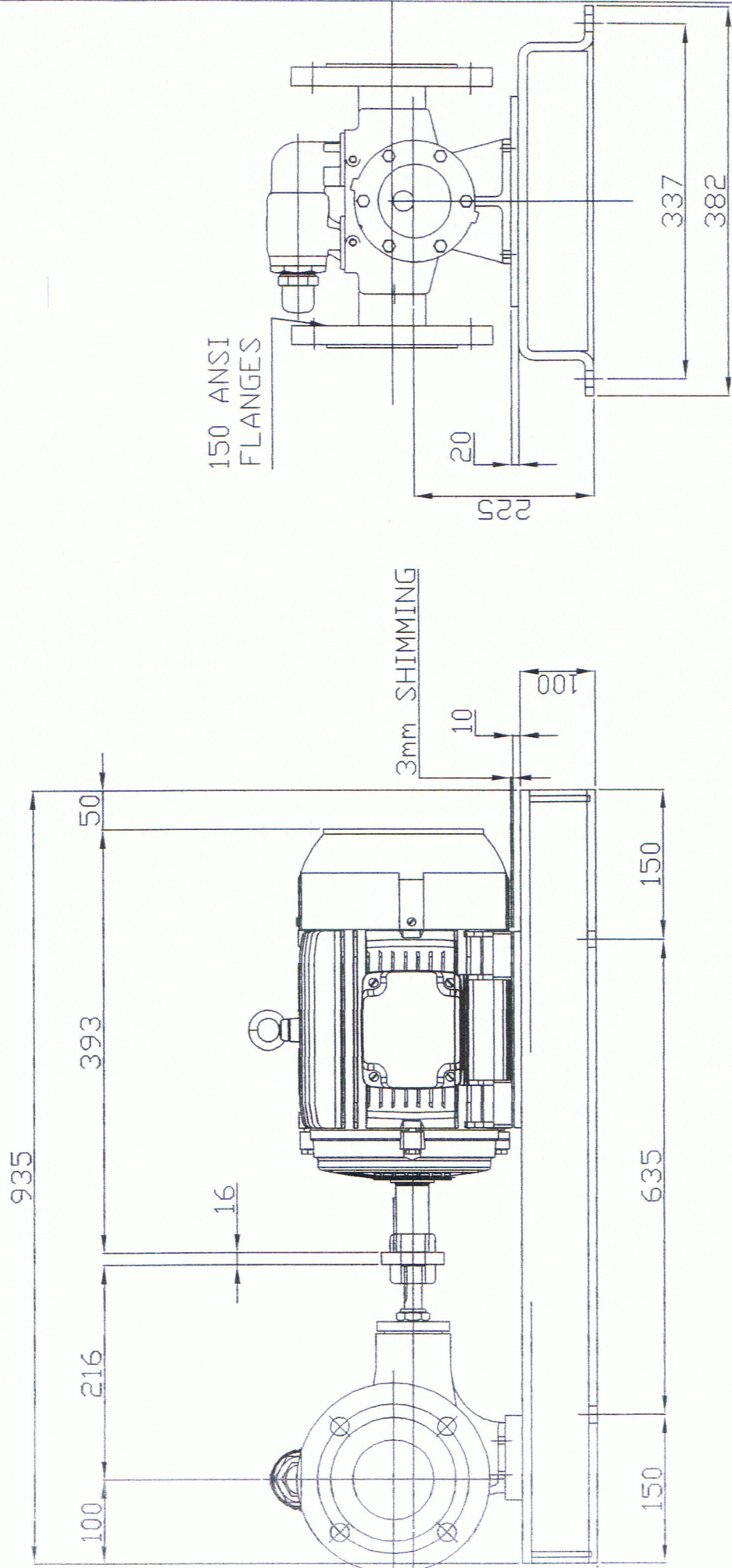
00MVA70 - AP001 - LPS31



Application Settings

Model: HL4195
 Viscosity: 25.8 cSt
 Diff. Pressure: 3.5 BAR
 Temperature: 45 C
 Specific Gravity: 0.9

Viking Pump, A Unit of IDEX Corporation, 406 State Street, Cedar Falls, Iowa, USA, 50613.



00ENG10 - AP001 - LPS30

DATE: 20-03-2012	
DRAWN: H.W	
CHECKED: B.C	
MATHER & PLATT	
GENERAL ARRANGEMENT - HL4195 - 4kW 6 POLE	
DESCRIPTION	REV: A3
SCALE: N.T.S	DRG No: SALES

REV	DATE	NAME	DESCRIPTION
			HL4195ARV