

PUMP PERFORMANCE AND SPECIFICATIONS

PUMP TESTED WITH HIGH PURITY WATER.

PUMP CAN WORK IN REVERSE FLOW CONDITION THE SAME AS IN THE CLOCKWISE DIRECTION.

MAX OPERATING PRESSURE: 30 PSI

MAX FLUID WORKING TEMPERATURE: 100°C

LIFE EXPECTANCY AND PUMP MAINTENANCE:
DEPENDENT ON APPLICATION. CONSULT FACTORY.

FLUID PATH MATERIALS

- PTFE IMPREGNATED CERAMIC (ALUMINA)
- PVDF
- UHMW-PE
- CERAMICA (ALUMINA)
- PEEK
- FKM

SFAL MATERIALS

- UHMW-PE
- FKM

WEIGHT: 1.3 lbs.

CERTIFICATIONS: REACH, ROHS

NOTE: LINEAR AND ROTARY MOTORS SHOULD NOT BE RUN AT THE SAME TIME.

FMI P/N 400797

TOLERANCES UNLESS OTHERWISE .XX = ±.02 [0.5] SPECIFIED $.XXX = \pm .01 [0.25]$ NOTICE TO PERSONS RECEIVING THIS DRAWING 5 Aerial Way, Suite 500, Syosset, NY 11791 DO NOT SURFACE SCALE FINISH FLUID METERING INC. CLAIMS PROPRIETARY RIGHTS IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING TITLE DATE DRAWN IS LOANED IN CONFIDENCE FOR INFORMATIONAL RH VARIABLE 11/29/2021 PURPOSES ONLY AND MAY NOT BE REPRODUCED, DISTRIBUTED, SOLD, RELENT, OR USED TO BY DISPENSE PUMP MANUFACTURE ANYTHING SHOWN HEREON WITHOUT DATE CHECKED **SEM** DIRECT PRIOR WRITTEN PERMISSION FROM FLUID 01/11/2022 BY METERING, INC. TO THE USER. THIS DRAWING IS DWG NO. LOANED FOR MUTUAL ASSISTANCE AND REMAINS DATE APPVD RH THE PROPERTY OF FLUID METERING, INC. IT IS SHT NO 2 of 4 600410 01/11/2022 Α BY SUBJECT TO RECALL AT ANY TIME.

ELECTRICAL SPECIFICATIONS

111283 MOTOR WIRING TABLE

MOTOR WIRING				
JST PIN #	PHASE			
1	RED	Α		
2	BLUE	Ā		
3	GREEN	В		
4	BLACK	B		

JST CONNECTOR HOUSING PHR-4 CRIMP TERMINAL P/N SPH-002T-P0.5S (FOR 30 - 24 AWG)

111283 MOTOR CHARACTERISTICS

	CHARACTERISTIC	RATING
1	STEP ANGLE	1.8°
2	FRAME SIZE	NEMA 17
3	RATED CURRENT/PHASE	2 AMP
4	resistance/phase	1.1 OHMS ± 10%
5	INDUCTANCE/PHASE	2.26 mH ± 20%
6	ROTOR INERTIA	0.28oz-in^2

111283 MOTOR SWITCHING SEQUENCE

MOTOR SWITCHING SEQUENCE						
	STEP	Α	Ā	В	B	
	4	ı	+	+	-	
C W	3	-	+	-	+	
C.W.	2	+	-	-	+	
	1	+	-	+	-	
	4	-	+	+	-	
MOTOR ROTATION FROM NOTED VIEW ON SHEET 1						

300864 SENSOR WIRING TABLE

SENSOR WIRING					
JST PIN # SIGNAL WIRE COL					
5	ANODE	RED			
4	CATHODE	BLACK			
3	Vcc	WHITE			
2	OUTPUT	BLUE			
1	GROUND	GREEN			

JST CONNECTOR HOUSING PHR-5 CRIMP TERMINAL P/N SPH-002T-P0.5S (FOR 30 - 24 AWG)

FMI P/N 400797

TOLERANCE UNLESS OTH SPECIFIED DO NOT SCALE	ES HERWISE .X .XXX SURFACE FINISH	X = ±.06 [1.5] X = ±.02 [0.5] = ±.01 [0.25]	Fluid me 5 Aerial Way, Suite 800.223,3388 P. 516.922,6050 F. 5	et, NY 11791	
DRAWN BY	RH	DATE 11/29/2021	TITLE VARIABLE		
CHECKED BY	SEM	DATE 01/11/2022	DISPENSE PUN		UMP
APPVD BY	RH	DATE 01/11/2022	DWG NO. 600410	REV A	SHT NO 3 of 4

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ELECTRICAL SPECIFICATIONS

111281 MOTOR WIRING TABLE

MOTOR WIRING					
PIN	PHASE				
1	BLACK	Α			
3	GREEN	Ā			
4	RED	В			
6	BLUE	B			

JST CONNECTOR HOUSING S6B-ZR

111281 MOTOR SWITCHING SEQUENCE

MOTOR SWITCHING SEQUENCE					
	STEP	Α	Ā	В	B
	1	-	+	+	-
C.W.	2	-	+	-	+
	3	+	-	-	+
	4	+	-	+	-

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111281 LINEAR ACTUATOR SPECS

	CHARACTERISTIC	RATING		
1	NUMBER OF PHASE	2		
2	LINEAR TRAVEL/STEP	0.003048 MM (1.8°)		
3	RATED VOLTAGE	5.2 V DC		
4	RATED CURRENT	0.4 AMP		
5	RATED THRUST	40N (@300RPM, RATED CURRENT)		
6	PHASE RESISTANCE	13 OHM ± 10% (20°C)		
7	PHASE INDUCTANCE	7.8MH±20% (1KHZ 1 V RMS)		
8	ROTOR INERTIA	1.6 GCM^2		
9	WEIGHT	0.1 KG		
10	INSULATION CLASS	B (130°C)		
11	SCREW DIAMETER	3.505 MM		
12	LEAD	0.6096 MM		

FMI P/N 400797

TOLERANCES			Fluid me	eterir	ng, inc.
DO NOT SURFACE 63 FINISH		5 Aerial Way, Suite 800.223.3388 P: 516.922.6050 F: 5	500, Syossi 16.624.8261 ww	et, NY 11791 vw.fluidmetering.com	
DRAWN BY	RH	DATE 11/29/2021	VARIABLE DISPENSE PUMP		
CHECKED BY	SEM	DATE 01/11/2022			
APPVD BY	RH	DATE 01/11/2022	DWG NO. 600410	REV A	SHT NO 4 of 4