3K Series - BLDC Motor

Boxer Pumps > Products > Diaphragm Pump

3K diaphragm pump with BLDC Motor.



Technical Data

	7.2 /
Free Flow Max Pressure	7.3 l/min 2.0 bar
Max Vacuum	-75%
	,5,0
Voltage	24 V DC
Power Consumption	7.0 to 15.5 W
Max current (start-up or locked rotor), electronically limited	10.0 A
Speed	400 to 4000 rpm
Wiring Details / Speed Control	See next page
Wire Length	400 mm (5 mm stripped / tinned)
Wire Gauge	22 AWG
Max. Motor Surface Temperature	80 °C
Motor Insulation Class	В
Motor Thermal Protection	Internal / automatically re-setting
Mar Archivet Occurting Townshing	F0.02
Max Ambient Operating Temperature	50 °C
Max Media Temperature	100 °C
Elastomer Options:	
Diaphragm	EPDM / Nitrile / Viton / Silicone
Valves	EPDM / Nitrile / Viton / Silicone
O-Rings	EPDM / Nitrile / Viton / Silicone
Eccentric Options:	0.8 / 1.0 / 2.0 mm
Other Wetted Parts	PPS (polyphenylene sulphide)
Mounting	Supplied with mounting bracket (see drawing, page 2)
Weicht	205 -
Weight	385 g
	Bold indicates configuration applicable to this datasheet

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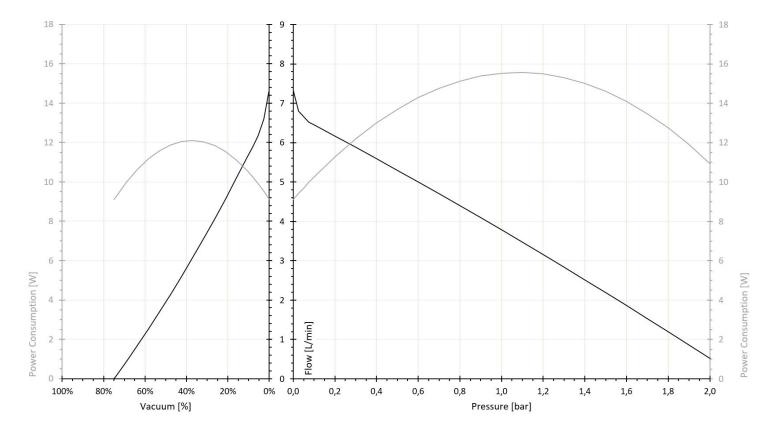
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Wiring Details / Speed Control

		Wire:
24 V DC	Red	1
GND	Black	2
Speed control input: 0.5 to 4.5 V DC (or 5.0 V PWM with min. 15 kHz signal)	Green	3
Speed range: 445 to 4000 rpm		
Not recommended to run below 400 rpm (0.45 V)		
Green wire can be connected to +24 V supply for full speed (4000 rpm) operation		
Resolution: 10 bit		
Frequency (rpm) output, 1 pulse (+ 5.0 V) per revolution with 50% on time	Yellow	4

Flow and Power Consumption Curve

At max speed (Speed Input at 4.5 V DC / 4000 rpm)



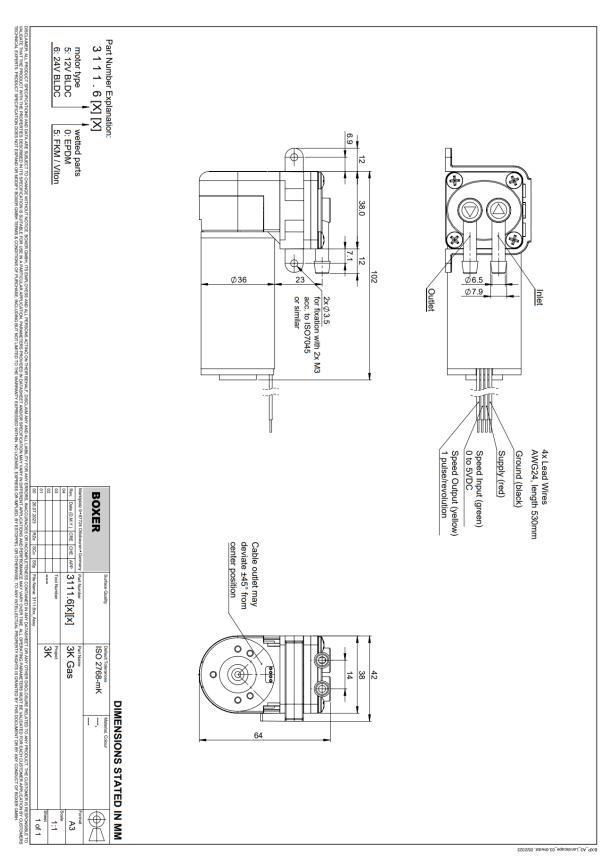
Order Information

 Part Number
 3111.660
 24 V BLDC / EPDM

 Part Number
 3111.665
 24 V BLDC / FKM

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All data is representative for initial selection purposes. It is the responsibility of the user to determine suitability for the intended use. Technical changes reserved.

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