

Boxer Pumps > Products > Liquid Diaphragm Pump

3MQ liquid diaphragm pump with BLDC Motor.



## Technical Data

Free Flow	3.3 l/min
Max Pressure	2.0 bar
Max Vacuum	-70%
Max Suction Height (dry)	2.5 m H <sub>2</sub> O
Voltage	24 V DC
Power Consumption	6 to 16.5 W
Max current (start-up or locked rotor), electronically limited	10.0 A
Speed	400 to 1400 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	B
Motor Thermal Protection	Internal / automatically re-setting
Max Ambient Operating Temperature	50 °C
Max Media Temperature	100 °C
Elastomer Options:	
Diaphragm	<b>EPDM</b> / FKM / Nitrile / Silicone
Valves	<b>EPDM</b> / FKM / Nitrile / Silicone
O-Rings	<b>EPDM</b> / FKM / Nitrile / Silicone
Eccentric Options:	<b>0.8</b> / 1.0 mm
Other Wetted Parts	PPS (polyphenylene sulphide)
Mounting	Supplied with 2 x mounting feet (see drawing, page 3)
Weight	385 g

**Bold** indicates configuration applicable to this datasheet

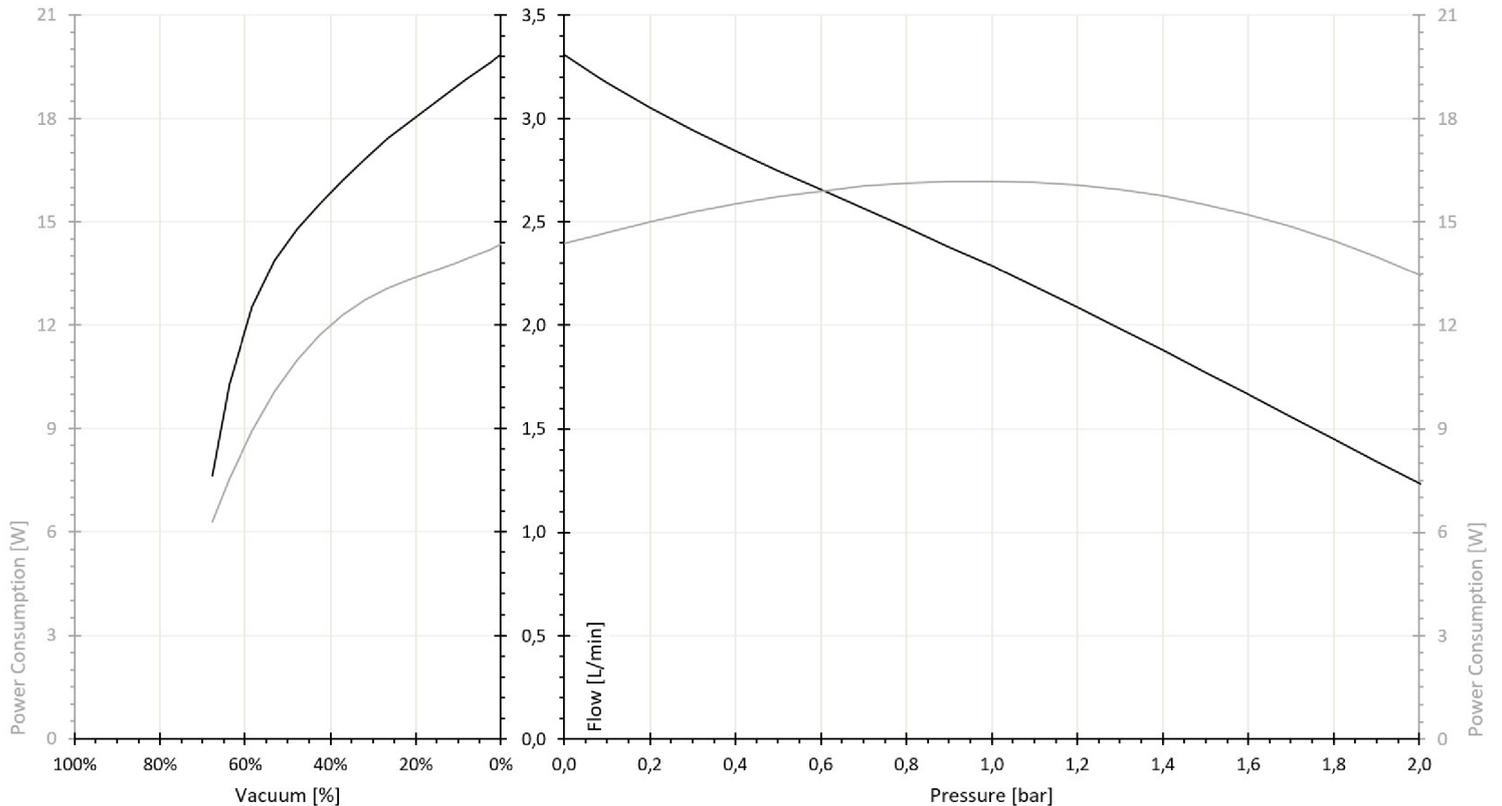
## Wiring Details / Speed Control

### Wire:

1	Red	24 V DC
2	Black	GND
3	Green	Speed control input: 0.5 to 4.5 V DC (or 5.0 V PWM with min. 15 kHz signal)
		Speed range: 155 to 1400 rpm
		Not recommended to run below 400 rpm (1.3 V)
		Green wire can be connected to +24 V supply for full speed (1400 rpm) operation
		Resolution: 10 bit
4	Yellow	Frequency (rpm) output, 1 pulse (+ 5.0 V) per revolution with 50% on time

## Flow and Power Consumption Curve

At max recommended speed (Speed Input at 4.5 V DC / 1400 rpm)



## Order Information

Part Number 3234.660 24 V BLDC / EPDM  
 Part Number 3234.665 24 V BLDC / FKM

