

Characteristics:

ErP Ready, EEL ≤ 0.18 - Part 2, High Pressure Head, High Flow Rate, Compact Size, Low Noise Operation

Specifications:

Dimensions	: 150.0 x 125.5 x 130.8 mm
Input Voltage	: 230 V AC, 50 Hz
Max. Pressure Head	: 6.0 m
Fluid Temperature Range	: 0 - 95 °C
Fluid Type	: Max Glycol (30% in water)
Temperature Class	: TF95
Max. System Pressure	: 0.6 MPa
IP Class	: IP44
Eco Design Directive	: EN16297-1:2012 and EN16297-2:2012
Energy Efficiency Index (EEI)	: ≤ 0.18 - Part 2
Noise Level	: 40 dBA
Noise Level Condition	: 1m from pump
Weight	: 1.45 kg
Storage Temperature	: -20 to 60 °C
Electrical Connection	: Connector Housing Terminal

**Performance Data:**

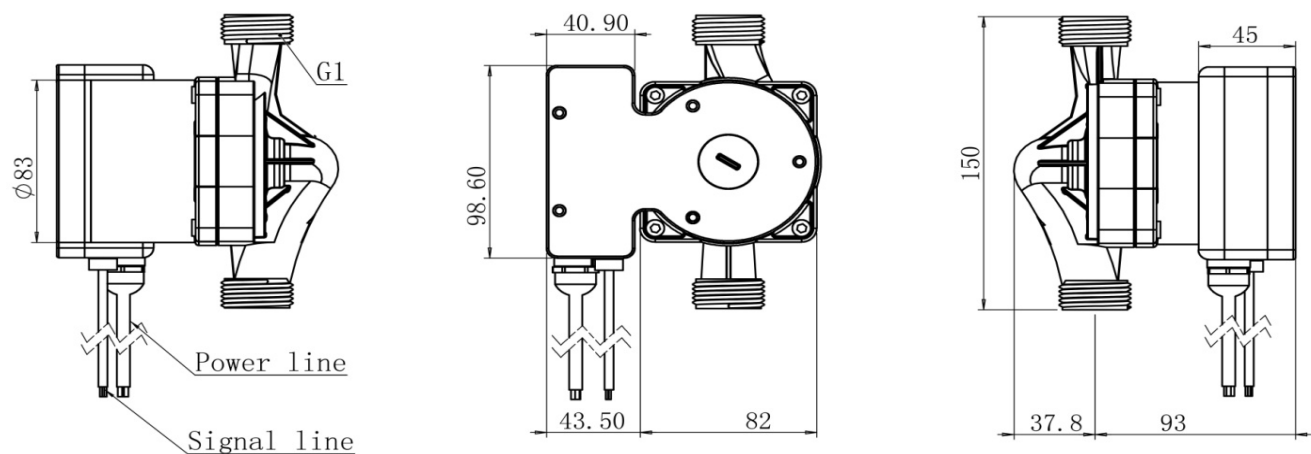
Working Point (ref)

Pressure Head (m)	5.6
Flow Rate (m ³ /h)	1.0
Input Power (W)	34.0

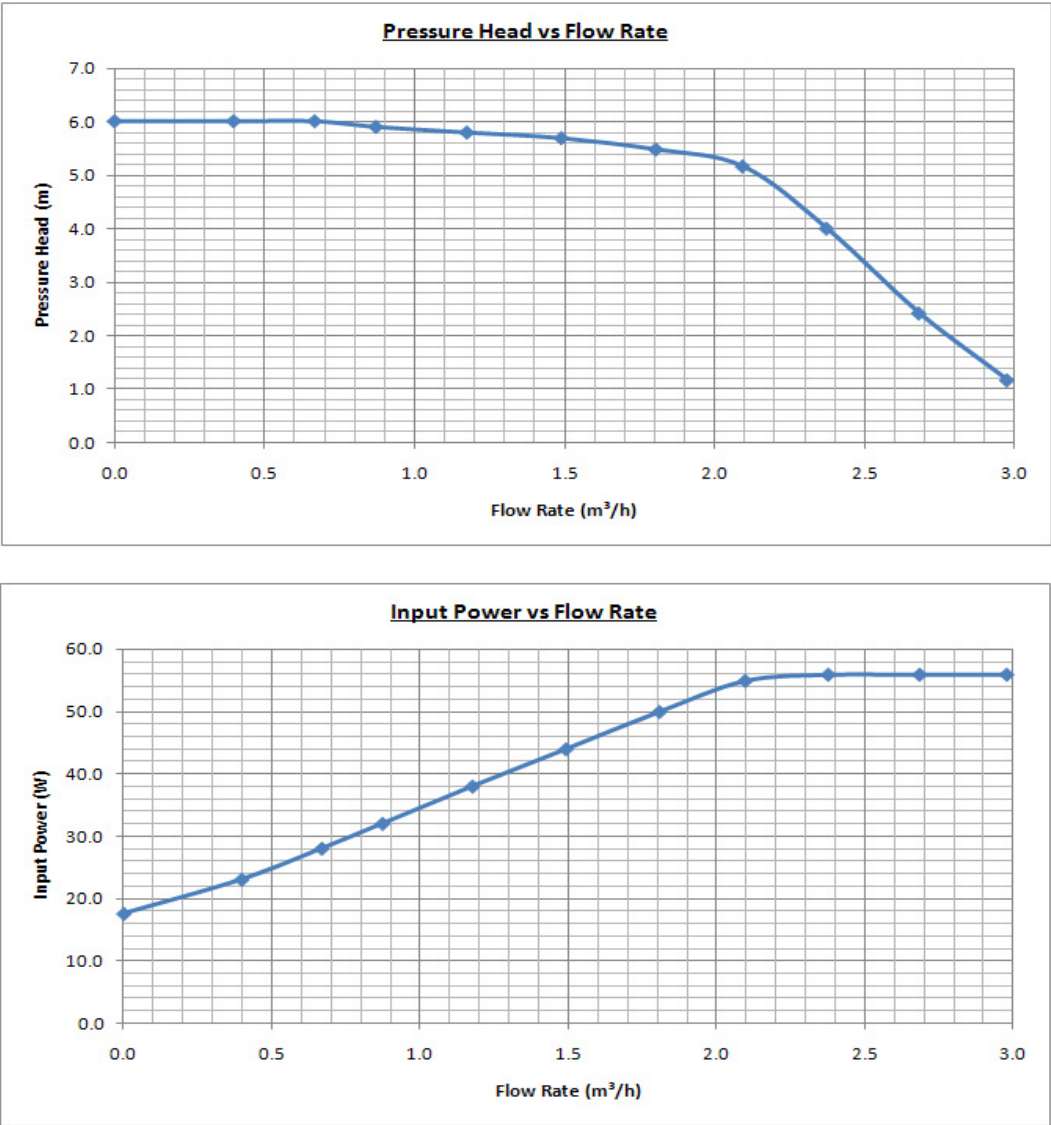
Application Examples:

Circulator Pumps, Circulation Pumps

Drawing:



Performance Curves:



Characteristics:

ErP Ready, EEl ≤ 0.23 - Part 2, High Pressure Head, High Flow Rate, Compact Size, Low Noise Operation

Specifications:

Dimensions	: 150.0 x 125.5 x 130.8 mm
Input Voltage	: 230 V AC, 50 Hz
Max. Pressure Head	: 5.7 m
Fluid Temperature Range	: 0 - 95 °C
Fluid Type	: Max Glycol (30% in water)
Temperature Class	: TF95
Max. System Pressure	: 0.6 MPa
IP Class	: IP44
Eco Design Directive	: EN16297-1:2012 and EN16297-2:2012
Energy Efficiency Index (EEI)	: ≤ 0.23 - Part 2
Noise Level	: 40 dBA
Noise Level Condition	: 1m from pump
Weight	: 1.45 kg
Storage Temperature	: -20 to 60 °C
Electrical Connection	: Connector Housing Terminal

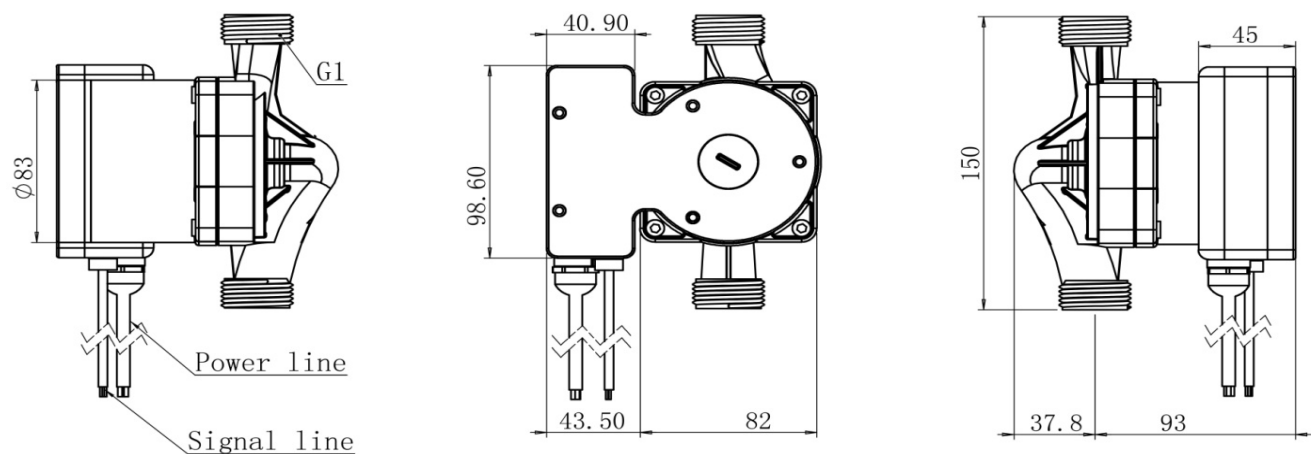
**Performance Data:**

Working Point (ref)	
Pressure Head (m)	5.5
Flow Rate (m ³ /h)	1.0
Input Power (W)	40.0

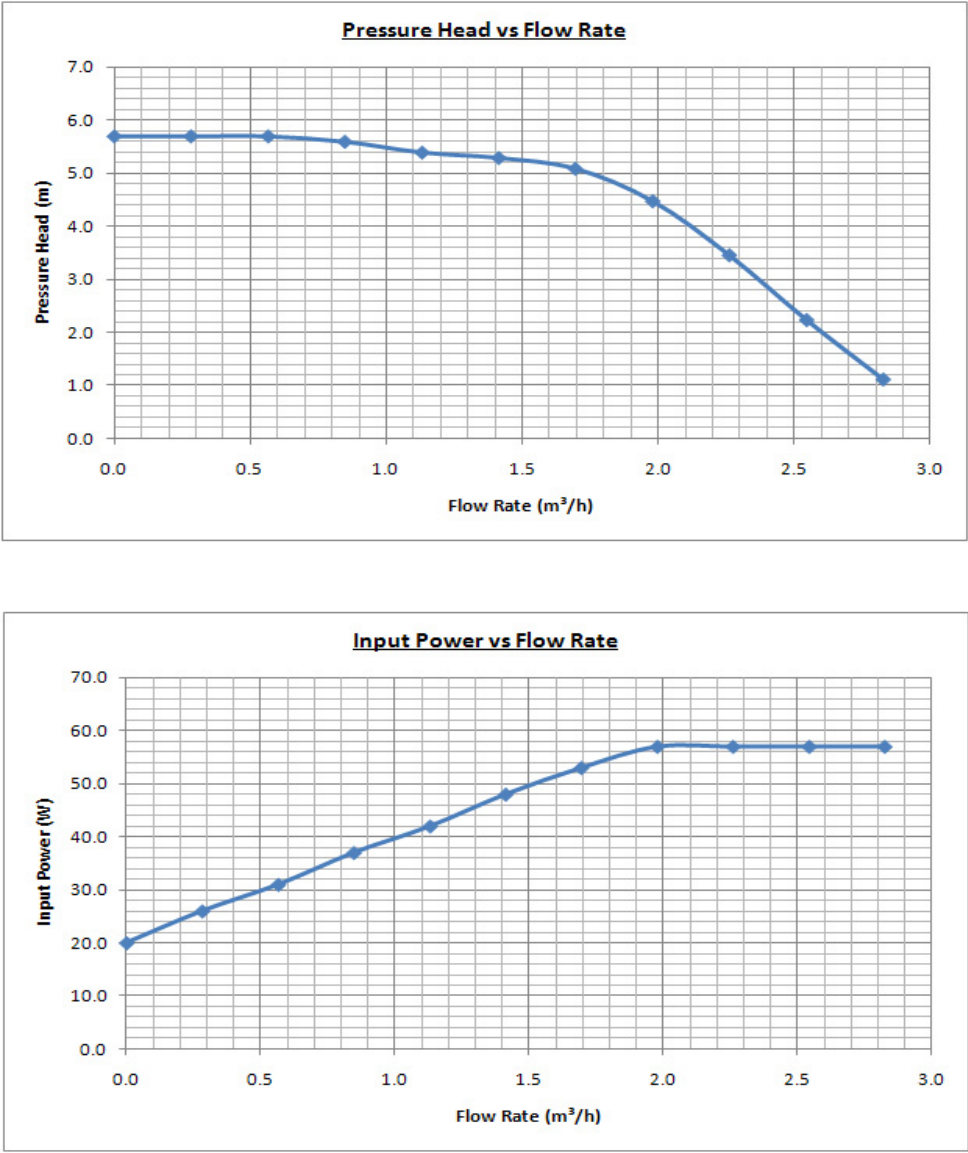
Application Examples:

Circulator Pumps, Circulation Pumps

Drawing:



Performance Curves:



Characteristics:

Low Noise, High Efficiency Circulation Pumps

Specifications:

Dimensions	: 101.5 X 202.5 X 111.0 mm
Input Voltage	: 230.0 V AC , 50 Hz
Rated Flow Rate 1	: 62 LPM @ 0.20 bar
Rated Flow Rate 2	: 55 LPM @ 0.22 bar
Max Flow Rate	: 77.00 LPM @ 0.13 bar
Max Pressure	: 0.37 bar
Fluid Temperature Range	: 2 to 85 °C
Fluid Type	: Water + Detergent
Maximum Efficiency	: 30 %
Flow Rate at Maximum Efficiency	: 50 LPM
Output Power at Maximum Efficiency	: 67 W
Noise Level	: 60 dBA
Noise Level Condition	: Microphone is located 40cm away from motor rear housing
Life (typical)	: 3000 hr
Life Test Condition	: 20 min ON / 8 min OFF, alternated with 70°C and room temperature water, at 280 mBar and ambient temperature
Weight	: 1300 g
Operation Temperature	: 2 to 70 °C
Storage Temperature	: -15 to 70 °C
Electrical Connection	: Connector



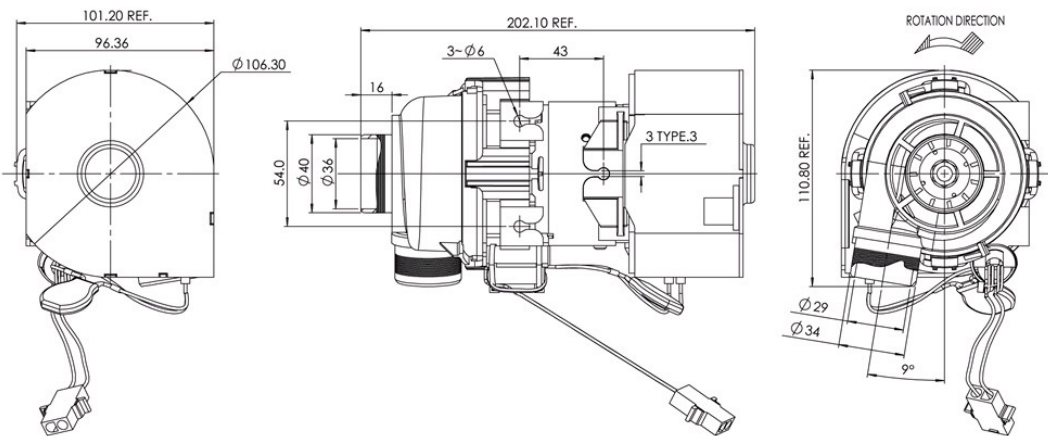
Performance Data:

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	77	62	50	-
Impeller Speed (rpm)	2691	2730	2781	2977
Input Power to Motor (W)	78.00	73.00	67.00	45.00
Efficiency (% , Pump)	-	-	30	-
Water Pressure (bar)	0.13	0.20	0.24	0.37

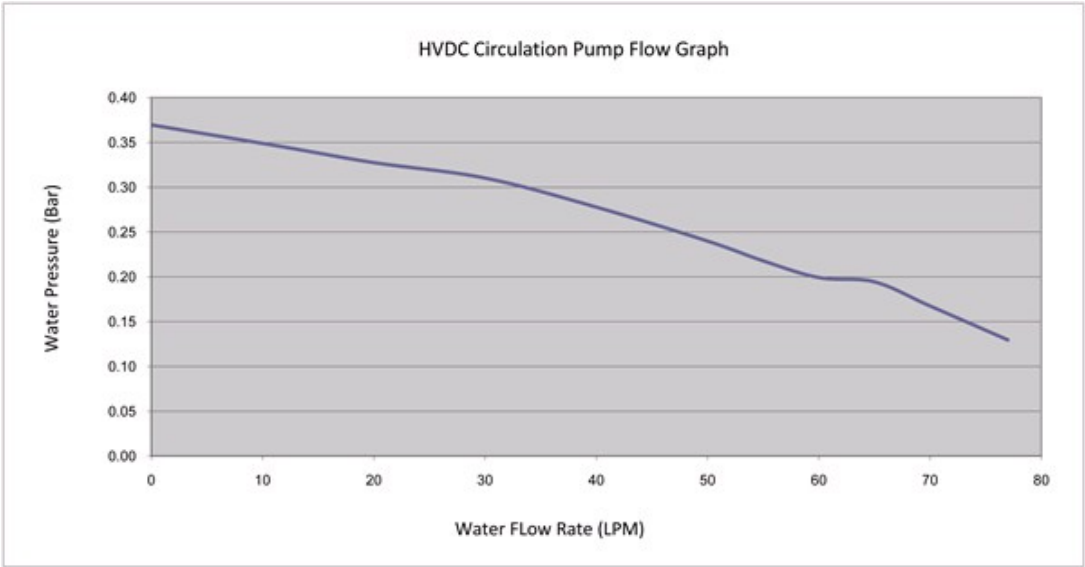
Application Examples:

Dishwashers, Washers and Dryers, Circulation Pumps

Drawing:



Performance Curves:



Units in Metric

Characteristics:

Low Noise, High Efficiency EC Drain Pump

Specifications:

Dimensions	: 76.0 X 75.8 X 75.3 mm
Input Voltage	: 230.0 V AC , 50 Hz
Rated Flow Rate 1	: 10 LPM @ 0.15 bar
Max Flow Rate	: 20 LPM @ 0.08 bar
Max Pressure	: 0.18 bar
Fluid Temperature Range	: 2 to 85 °C
Fluid Type	: Water + Detergent
Maximum Efficiency	: 14 %
Maximum Efficiency of Motor	: 35 %
Flow Rate at Maximum Efficiency	: 10 LPM
Noise Level	: 37 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit, 28dBA (full water condition) and 37dBA (air + water condition)
Other Feature	: No volute in normal configuration; material of impeller is NSF recognised; 3-phase BLAC EC Motor driven; controller and volute are not included but can be ordered optionally
Life (typical)	: 1000 hr
Life Test Condition	: 1 min ON / 1 min OFF, 70°C water, 5 LPM waterflow rate in 1m drain pipe height at ambient temperature 25°C
Weight	: 350 g
Operation Temperature	: 2 to 85 °C
Storage Temperature	: -20 to 85 °C
Electrical Connection	: Connector Housing Terminal

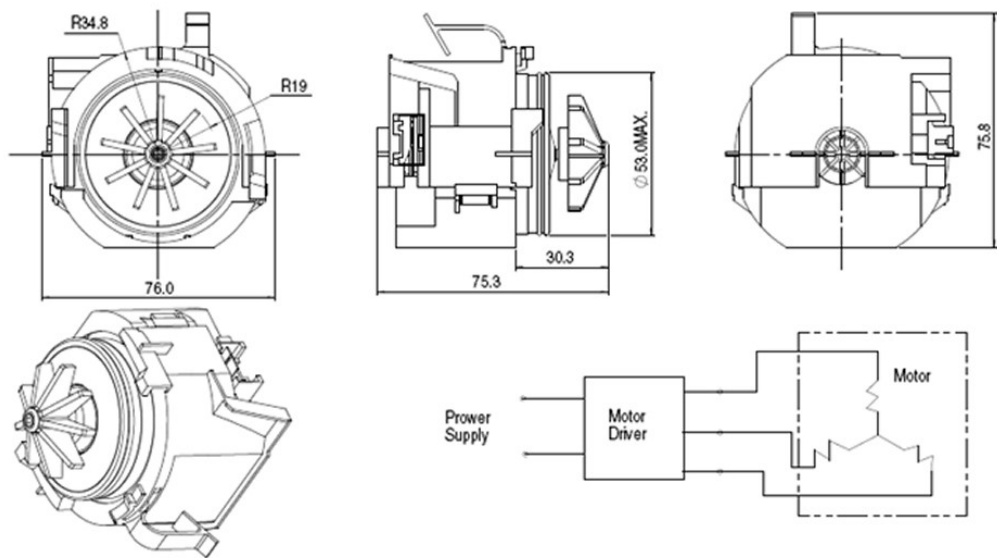
**Performance Data:**

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	20	10	10	-
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	35.00	15.00	15.00	8.00
Efficiency (% , Pump)	-	-	14	-
Efficiency (% , Motor)	-	-	35	-
Water Pressure (bar)	0.08	0.14	0.14	0.18

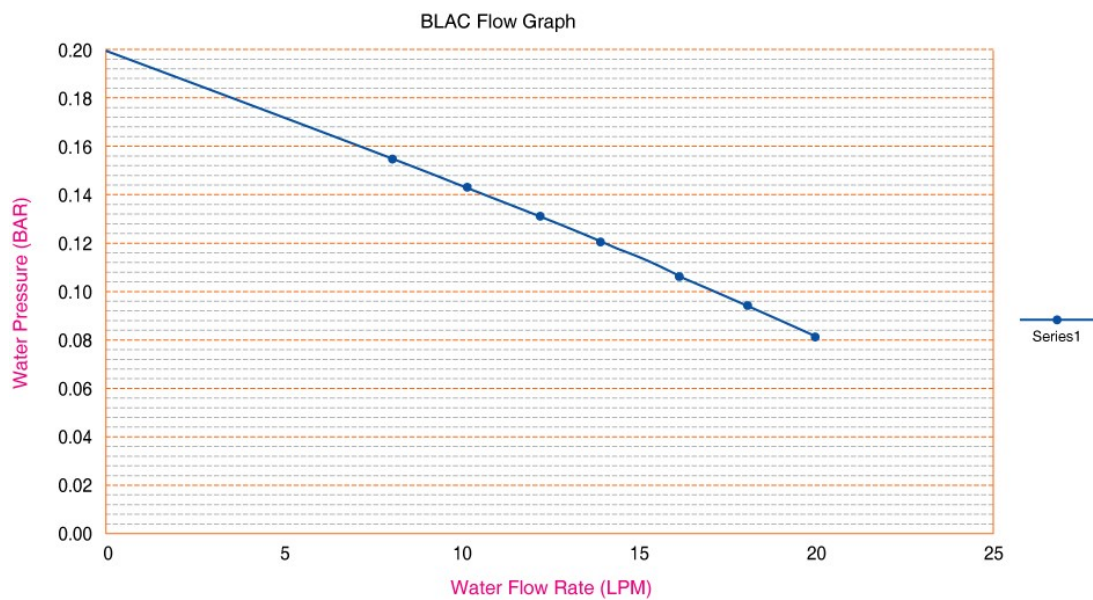
Application Examples:

Washers and Dryers, Dishwashers, Drain Pumps, Circulation Pumps

Drawing:



Performance Curves:



Units in Metric

Characteristics:

Low Noise, High Efficiency EC Circulation Pump

Specifications:

Dimensions	: 105.0 X 129.0 X 125.0 mm
Input Voltage	: 230.0 V AC , 50 Hz
Rated Flow Rate 1	: 68 LPM @ 0.22 bar
Rated Flow Rate 2	: 50 LPM @ 0.28 bar
Max Flow Rate	: 83 LPM @ 0.15 bar
Max Pressure	: 0.37 bar
Fluid Temperature Range	: 2 to 85 °C
Fluid Type	: Water + Detergent
Maximum Efficiency	: 31 %
Maximum Efficiency of Motor	: 69 %
Flow Rate at Maximum Efficiency	: 55 LPM
Noise Level	: 48 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit
Other Feature	: Inlet OD: 40 mm, Outlet OD: 34 mm; material of impeller is NSF recognised; 3-phase BLAC EC Motor driven; controller and volute are not included but can be ordered optionally
Life (typical)	: 5000 hr
Life Test Condition	: Cold water at 20°C, Hot water at 75°C, Water pressure 0.2bar
Weight	: 750 g
Operation Temperature	: 2 to 85 °C
Storage Temperature	: -20 to 85 °C
Electrical Connection	: Connector Housing Terminal

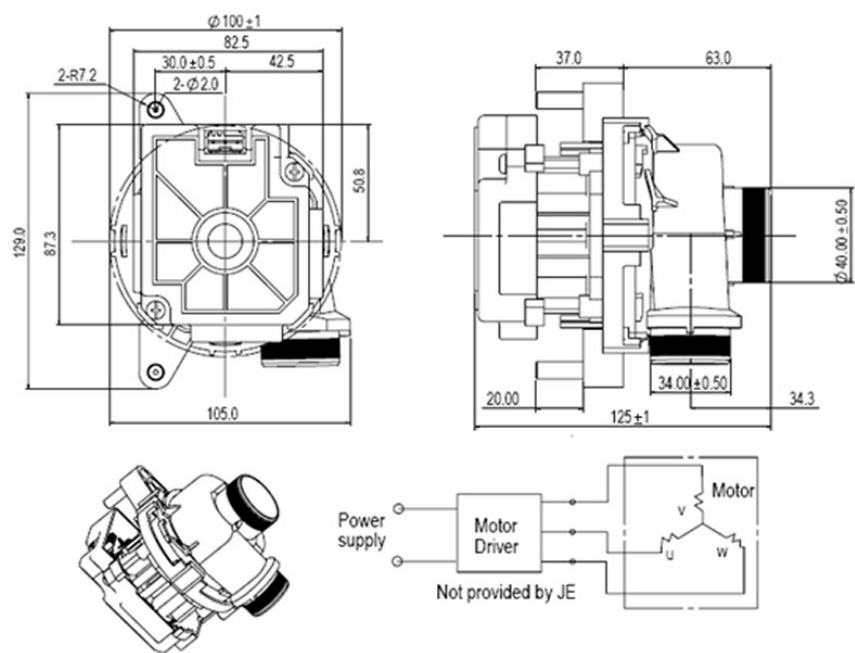
**Performance Data:**

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	83	68	55	-
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	90.00	85.00	82.00	60.00
Efficiency (% , Pump)	-	-	31	-
Efficiency (% , Motor)	-	-	69	-
Water Pressure (bar)	0.15	0.22	0.28	0.37

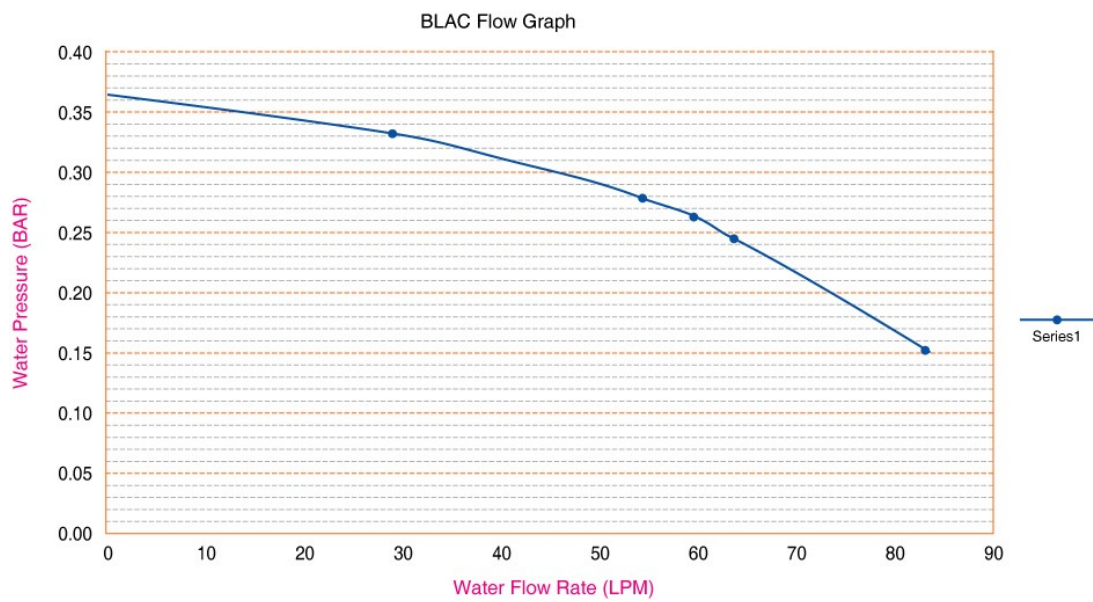
Application Examples:

Dishwashers, Circulation Pumps, Drain Pumps, Washers and Dryers

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High Power Synchronous Motoized Drain Pump

Specifications:

Dimensions	: 108.5 X 55.5 X 106.9 mm
Type	: Impeller Pumps
Input Voltage	: 120.0 V AC
Rated Flow Rate 1	: 24 LPM @ 0.08 bar
Max Flow Rate	: 24.00 LPM @ 0.09 bar
Max Pressure	: 0.19 bar
Fluid Temperature Range	: 2 to 80 °C
Fluid Type	: Water + Detergent
Maximum Efficiency	: 16 %
Maximum Efficiency of Motor	: 47 %
Flow Rate at Maximum Efficiency	: 18 LPM
Noise Level	: 58 dBA
Noise Level Condition	: Pumping water at 60 mm distance from microphone
Other Feature	: Self-priming height: 30 cm max, inlet and sizes, FDA
Life (typical)	: 800 hr
Duty Cycle (Typical)	: 32000 cycles
Life Test Condition	: at 0.09 Bar and Ambient Temperature Water; 1.5 min ON, 1.5 min OFF
Weight	: 484 g
Operation Temperature	: 2 to 60 °C
Storage Temperature	: -15 to 75 °C
Electrical Connection	: 250 Series Terminal
Certification	: UL



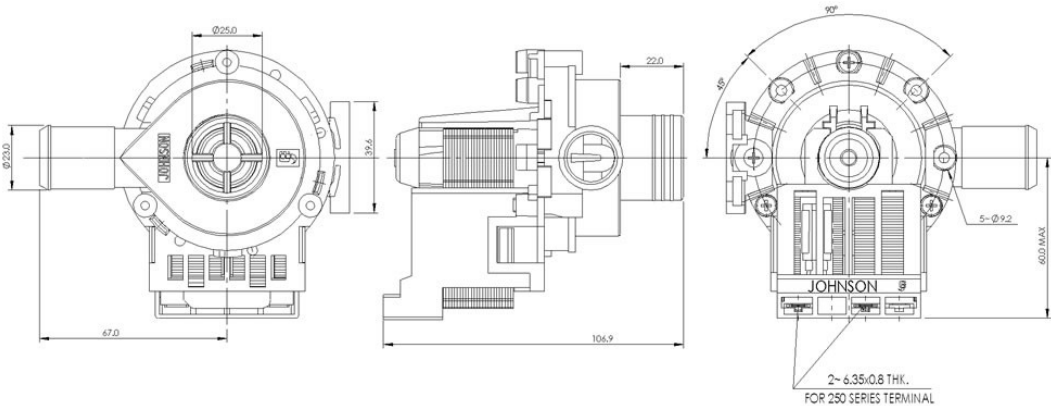
Performance Data:

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	24	22	18	-
Impeller Speed (rpm)	3600	3600	3600	3600
Input Power to Motor (W)	26.00	24.00	22.00	14.00
Efficiency (% , Pump)	13	15	16	-
Efficiency (% , Motor)	-	-	47	-
Water Pressure (bar)	0.09	0.10	0.12	0.19

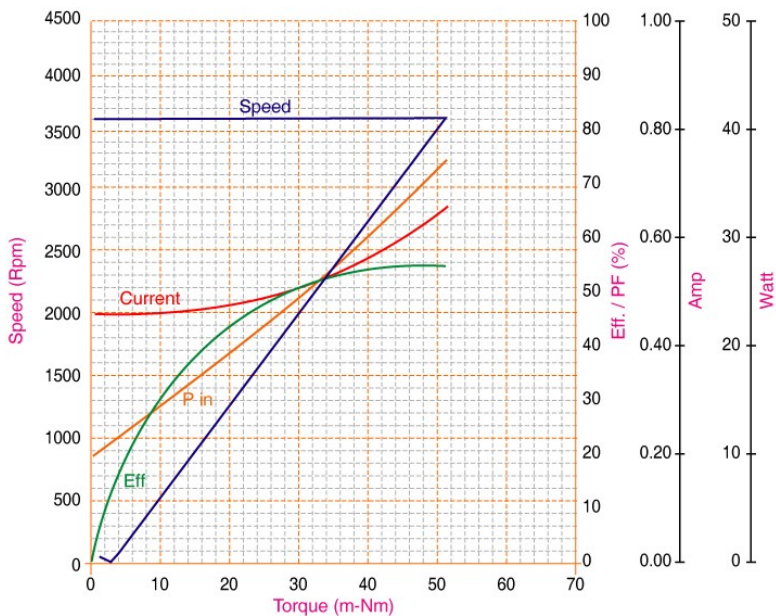
Application Examples:

Dishwashers, Drain Pumps, Washers and Dryers

Drawing:



Performance Curves:



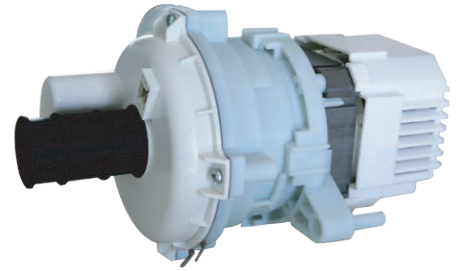
Units in Metric

Characteristics:

EC Circulation Pump with Concealed Heater, Up to 75°C water,
Low Noise, High energy efficiency

Specifications:

Dimensions	: 122.0 X 134.0 X 207.0 mm
Input Voltage	: 120.0 V AC, 60 Hz
Rated Flow Rate	: 55 LPM @ 0.26 bar
Max. Flow Rate	: 85 LPM @ 0.12 bar
Max. Pressure	: 0.37 bar
Maximum Efficiency	: 30%
Flow Rate at Max. Efficiency	: 55 LPM
Noise Level	: 33 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit
Other Feature	: Maximum water temperature 75°C
Life (Typical)	: 5000 hours
Life Test Condition	: Cold water at 25°C, Hot water at 75°C, Water pressure 0.25bar
Weight	: 1195g
Operation Temperature	: 2 to 75°C
Storage Temperature	: -20 to 85°C
Electrical Connection	: Connector Housing Terminal

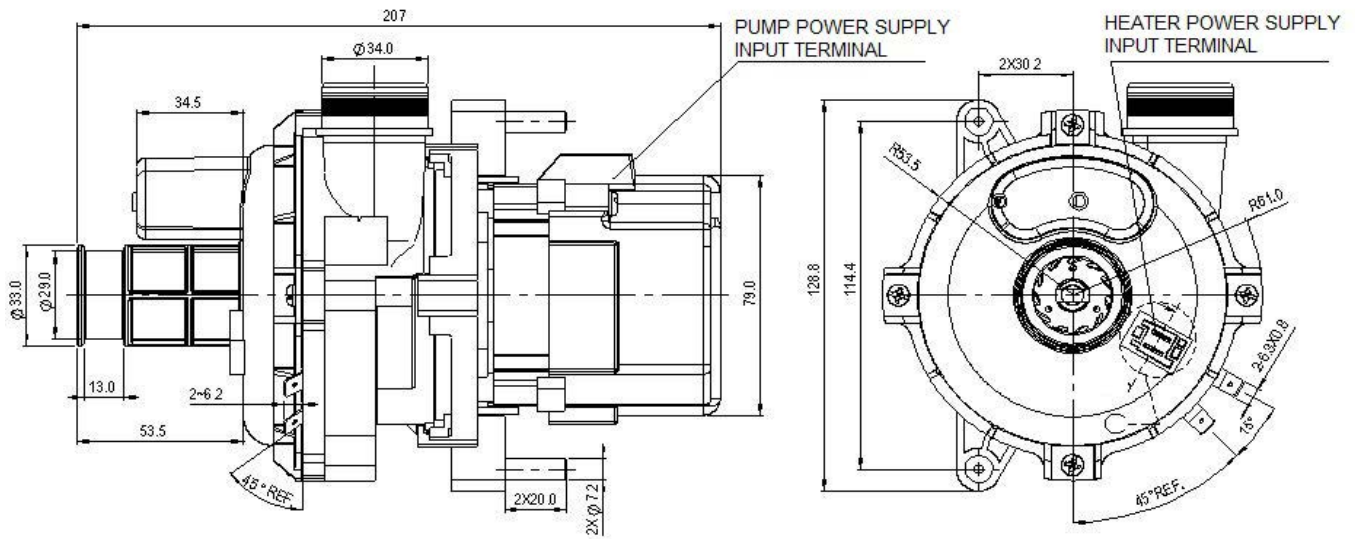
**Performance:**

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	85	55	55	0
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	95	82	82	35
Efficiency (% , Pump)	20	30	30	0
Water Pressure (bar)	0.12	0.26	0.26	0.37

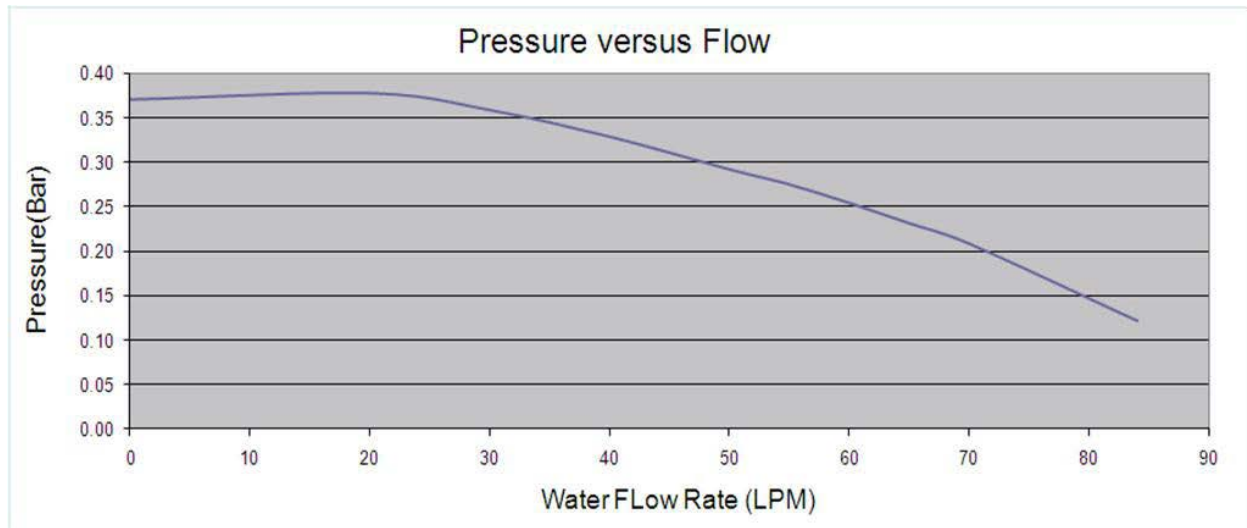
Application Examples:

Dishwashers, Circulation Pumps, Washers and Dryers

Drawing:



Performance Curve:



Characteristics:

EC Circulation Pump with Concealed Heater, Up to 85°C water,
Low Noise, High energy efficiency

Specifications:

Dimensions	: 122.0 X 134.0 X 207.0 mm
Input Voltage	: 120.0 V AC, 60 Hz
Rated Flow Rate	: 55 LPM @ 0.26 bar
Max. Flow Rate	: 85 LPM @ 0.12 bar
Max. Pressure	: 0.37 bar
Maximum Efficiency	: 30%
Flow Rate at Max. Efficiency	: 55 LPM
Noise Level	: 33 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit
Other Feature	: Maximum water temperature 85°C
Life (Typical)	: 5000 hours
Life Test Condition	: Cold water at 25°C, Hot water at 85°C, Water pressure 0.25bar
Weight	: 1195g
Operation Temperature	: 2 to 85°C
Storage Temperature	: -20 to 85°C
Electrical Connection	: Connector Housing Terminal



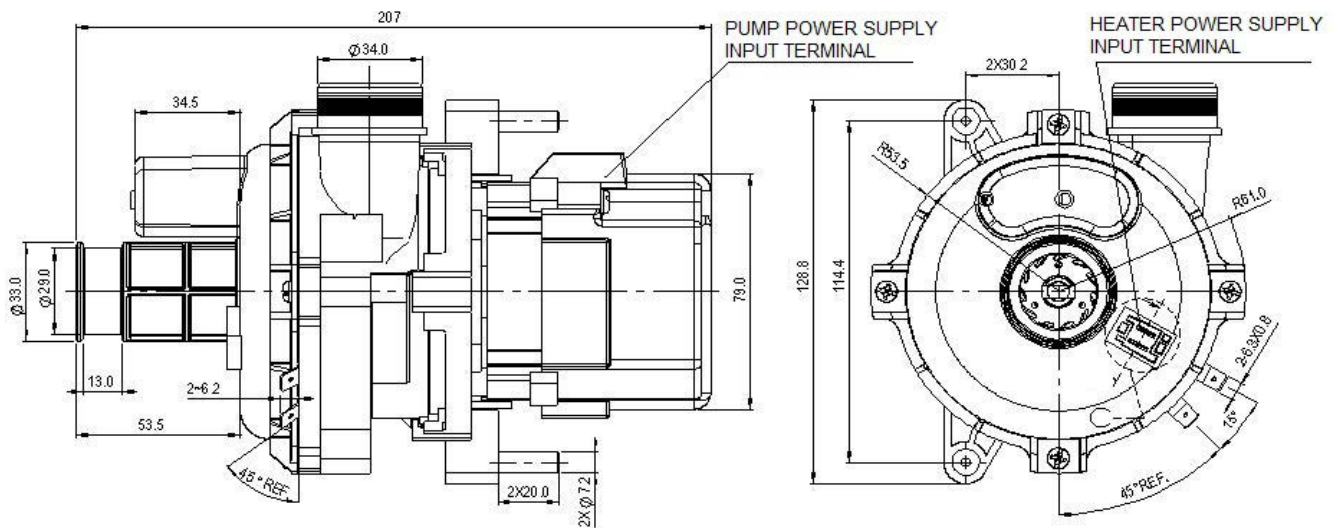
Performance:

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	85	55	55	0
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	95	82	82	35
Efficiency (% , Pump)	20	30	30	0
Water Pressure (bar)	0.12	0.26	0.26	0.37

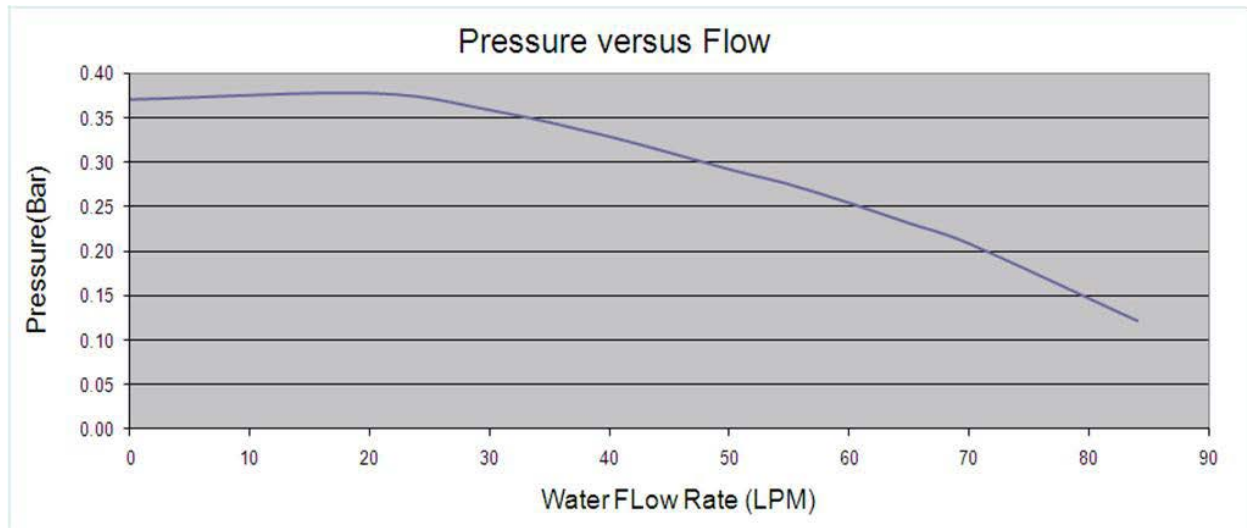
Application Examples:

Dishwashers, Circulation Pumps, Washers and Dryers

Drawing:



Performance Curve:



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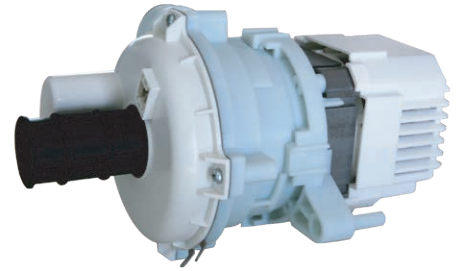
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Characteristics:

EC Circulation Pump with Concealed Heater, Up to 75°C water,
Low Noise, High energy efficiency

Specifications:

Dimensions	: 122.0 X 134.0 X 207.0 mm
Input Voltage	: 230.0 V AC, 50 Hz
Rated Flow Rate	: 55 LPM @ 0.26 bar
Max. Flow Rate	: 85 LPM @ 0.12 bar
Max. Pressure	: 0.37 bar
Maximum Efficiency	: 30%
Flow Rate at Max. Efficiency	: 55 LPM
Noise Level	: 33 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit
Other Feature	: Maximum water temperature 75°C
Life (Typical)	: 5000 hours
Life Test Condition	: Cold water at 25°C, Hot water at 75°C, Water pressure 0.25bar
Weight	: 1195g
Operation Temperature	: 2 to 75°C
Storage Temperature	: -20 to 85°C
Electrical Connection	: Connector Housing Terminal

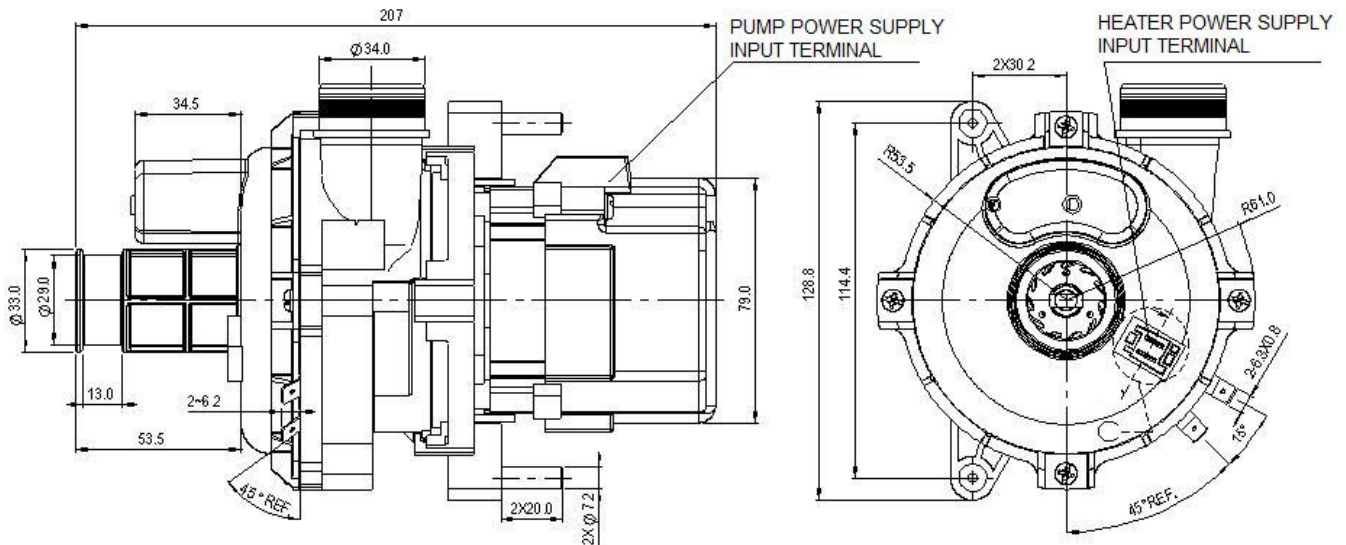
**Performance:**

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	85	55	55	0
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	95	82	82	35
Efficiency (% , Pump)	20	30	30	0
Water Pressure (bar)	0.12	0.26	0.26	0.37

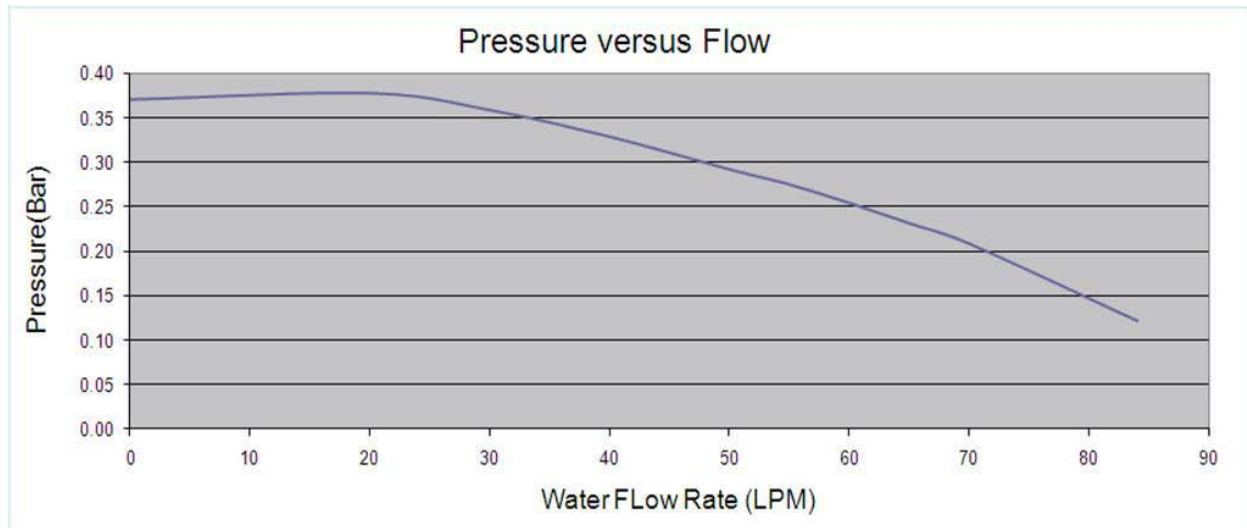
Application Examples:

Dishwashers, Circulation Pumps, Washers and Dryers

Drawing:



Performance Curve:



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Characteristics:

EC Circulation Pump with Concealed Heater, Up to 85°C water,
Low Noise, High energy efficiency

Specifications:

Dimensions	: 122.0 X 134.0 X 207.0 mm
Input Voltage	: 230.0 V AC, 50 Hz
Rated Flow Rate	: 55 LPM @ 0.26 bar
Max. Flow Rate	: 85 LPM @ 0.12 bar
Max. Pressure	: 0.37 bar
Maximum Efficiency	: 30%
Flow Rate at Max. Efficiency	: 55 LPM
Noise Level	: 33 dBA
Noise Level Condition	: noise probe located 0.6m from dishwasher unit
Other Feature	: Maximum water temperature 85°C
Life (Typical)	: 5000 hours
Life Test Condition	: Cold water at 25°C, Hot water at 85°C, Water pressure 0.25bar
Weight	: 1195g
Operation Temperature	: 2 to 85°C
Storage Temperature	: -20 to 85°C
Electrical Connection	: Connector Housing Terminal



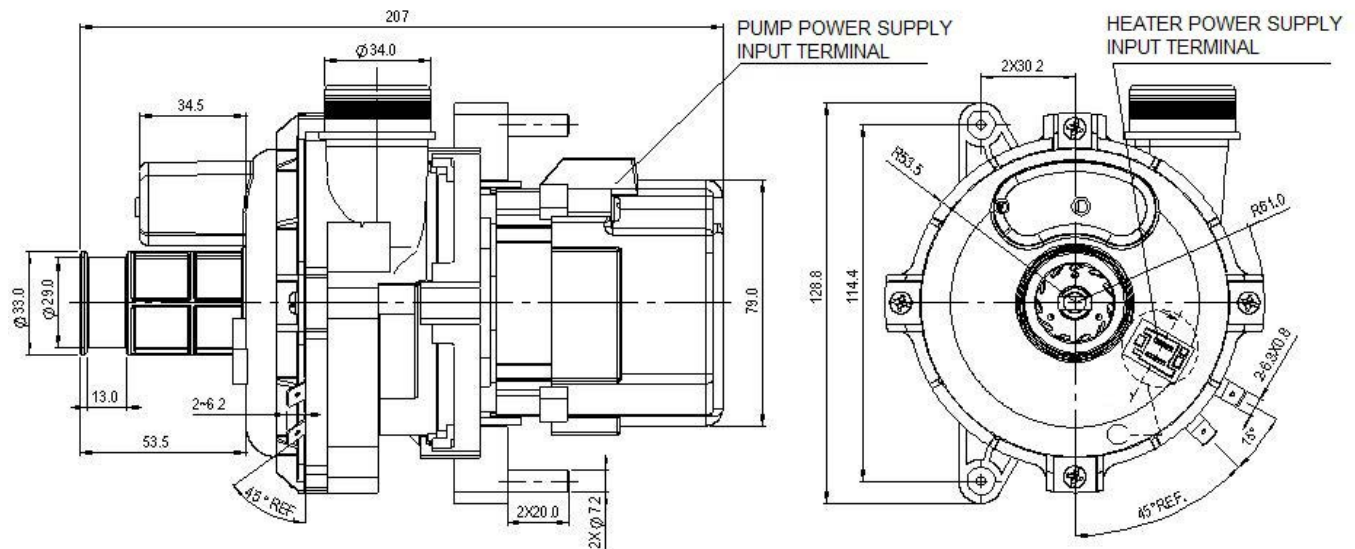
Performance:

	Valve Fully Open	Typical Working Point	Max Efficiency	Valve Closed
Water Flow Rate (LPM)	85	55	55	0
Impeller Speed (rpm)	3000	3000	3000	3000
Input Power to Motor (W)	95	82	82	35
Efficiency (% , Pump)	20	30	30	0
Water Pressure (bar)	0.12	0.26	0.26	0.37

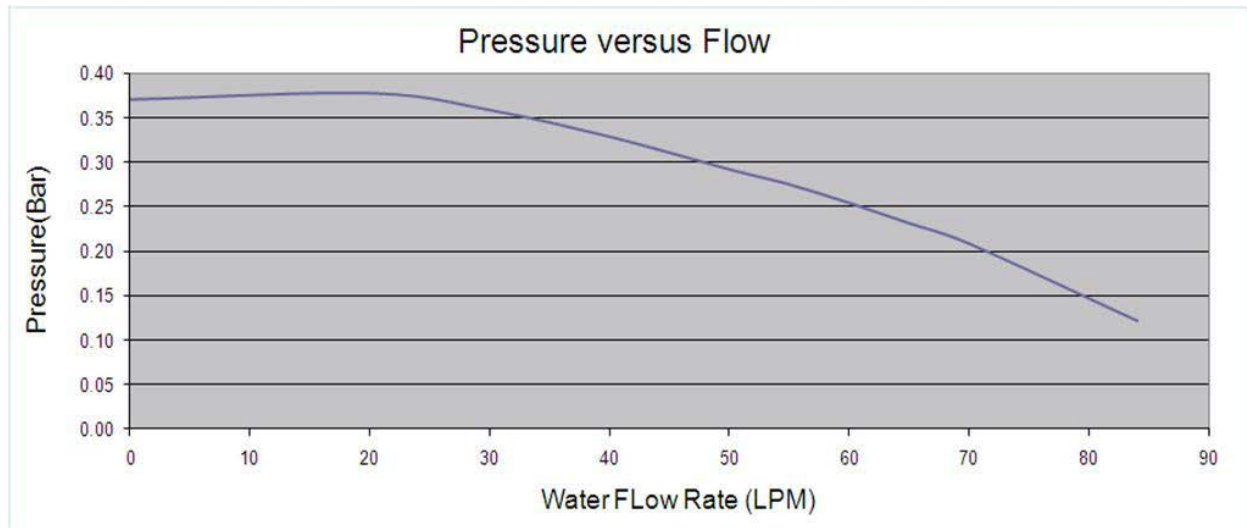
Application Examples:

Dishwashers, Circulation Pumps, Washers and Dryers

Drawing:



Performance Curve:



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