





Mobility in Transition.

✤ Passion in Motion

www.buehlermotor.com

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Facts and Figures

General:			AN STATION		
Family own	ned and self-financed			sel linit	1
1.450+	Employees	9%	Sales Growth (healthy and sustainable sales growth)		
11	Locations	20+	Mio units (per year Bühler Motor worldwide)		
6	Countries	500+	Mio units in the field within the last 20 years		
300+	Mio Euro in net sales	360°	Customer Care		

Facts and Figures



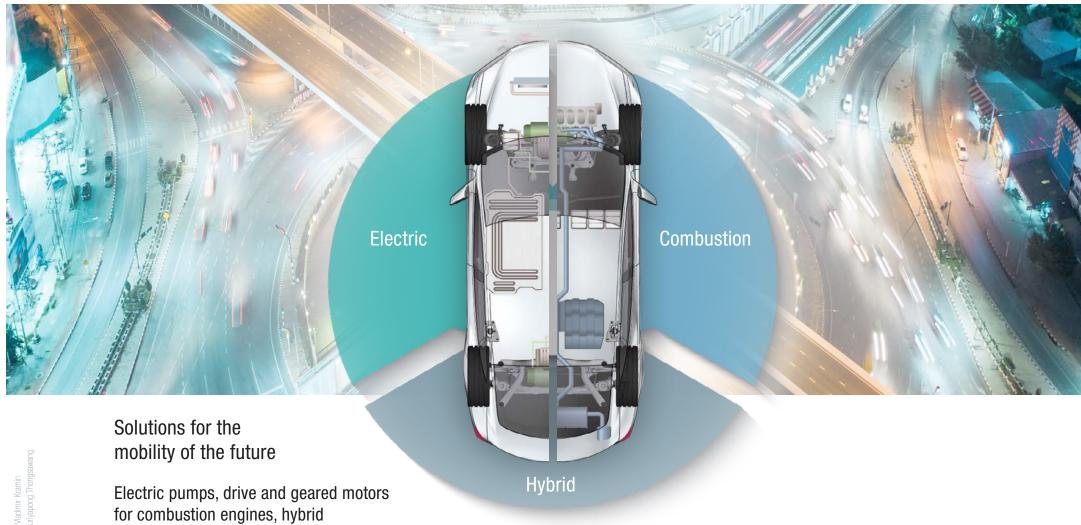


Fast Forward Automotive Solutions



Solutions for the mobility of the future

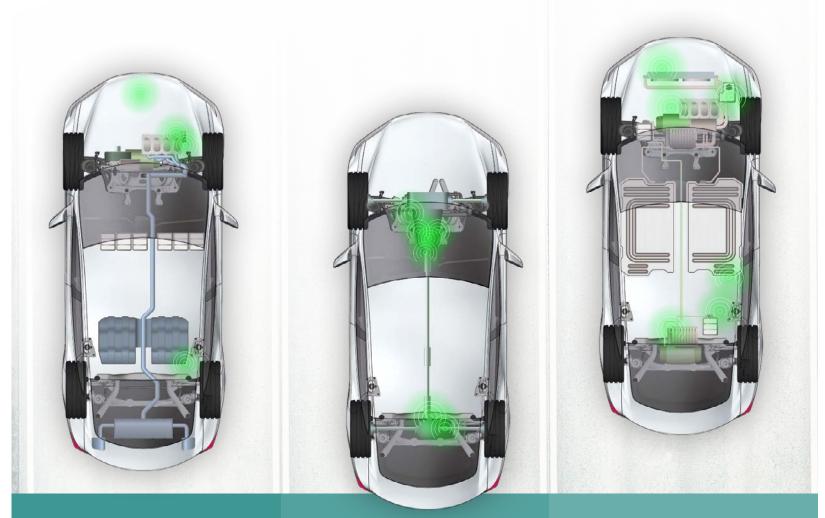




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and electric vehicles.

Automotive Segments



| Clean Air Technologies for emission control.

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| Drivetrain

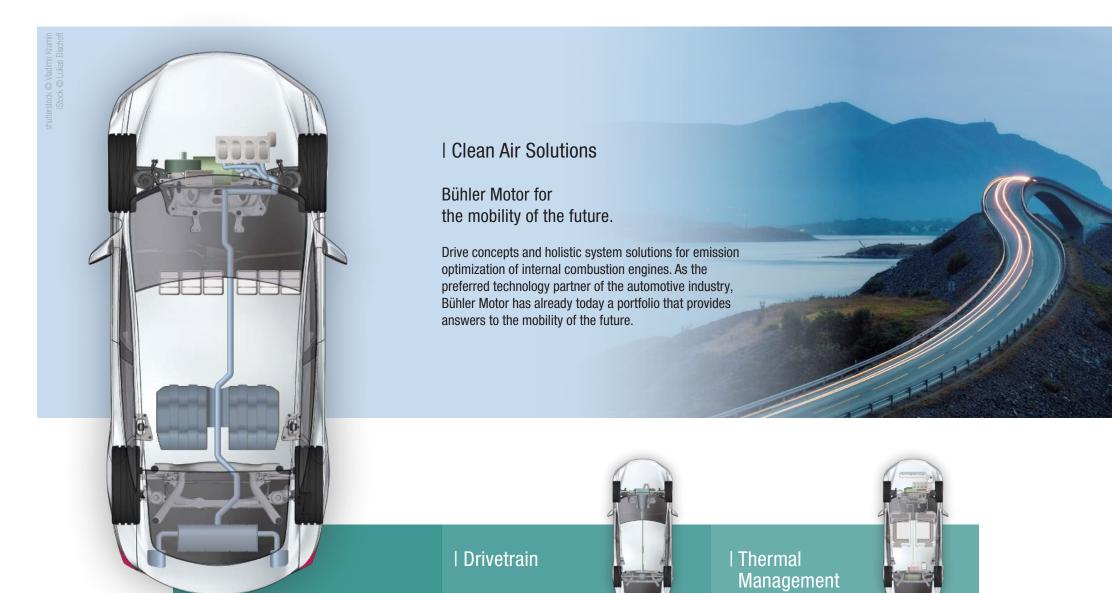
Electric transmission oil pumps and actuators for the demands of today and tomorrow.

| Thermal Management

Electric pump and drive technologies for energy-efficient temperature control.

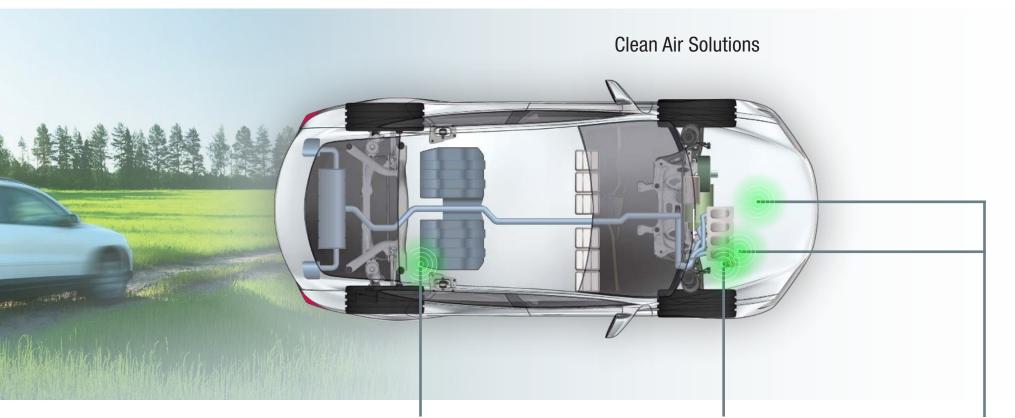
Clean Air Solutions





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Clean Air Solutions





AdBlue®/DEF pumps/ SCR pumps eOMS (electrical oilmist separator)



Electrical Vacuum pumps

Electric pumps for exhaust gas after-treatment (SCR)



 Electric pumps for exhaust gas after-treatment (SCR).
 Droduct examples:

 Subscription liquid to the SCR injector.
 Product examples:

 Output
 Subscription liquid to the SCR injector.

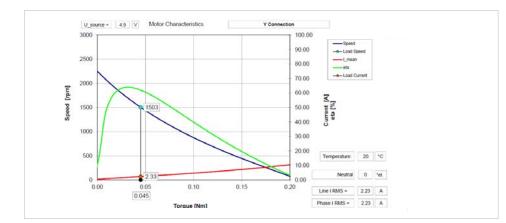
Applications:

AdBlue®/DEF pumps in SCR systems

SCR pump compact

SCR Pump premium





Subject to change without notice

Technical data:

Operating voltage:	12 V
Current:	IN A 2,3 @4,9 V
Max. delivery:	5 bar
Max. flow rate:	9 l/h (0,15 l/min)
Ambient temperature range:	-40 °C - +90 °C
Length (nominal):	~ 77,5 mm
Diameter (nominal):	~ 78 mm
Weight:	550 g
Controlling:	PWM

Features:

- □ Bidirectional, filling/feeding and draining with a pump
- □ Motor: three-phase BLDC, sensorless, internal rotor
- □ Waterproof
- □ Rare-earth magnets
- □ Special materials for the aggressive medium AdBlue®

SCR Pump compact



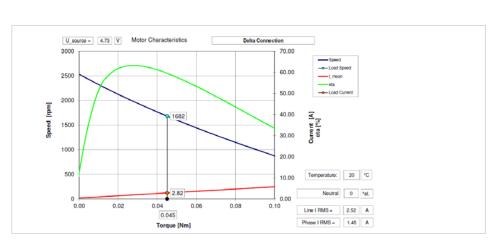
Technical data:

Operating voltage:	12 V
Current:	IN A 2,7 @4,38 V
Max. delivery:	7 bar
Max. flow rate:	1,7 l/h (0,03 l/min)
Ambient temperature range:	-40 °C - +90 °C
Length (nominal):	~ 88,2 mm
Diameter (nominal):	~ 60 mm
Weight:	437 g
Controlling:	PWM

Features:

- D Pump: External gears, self-priming, stainless steel housing
- □ Integrated media bypass with 2,5 l/h
- $\hfill\square$ Motor: three-phase BLDC, sensorless, internal rotor
- $\hfill\square$ Pumped medium: AdBlue $\ensuremath{\mathbb{R}}$
- $\hfill\square$ Other media available on request
- $\hfill\square$ Special materials for the aggressive medium AdBlue $\ensuremath{\mathbb{R}}$





bDrive 55 electrical oilmist separator



Applications:

Active high-performance filters in petrol and diesel engines for the growing demands on crankcase ventilation in passenger cars.

bDrive 55 electrical oilmist separator



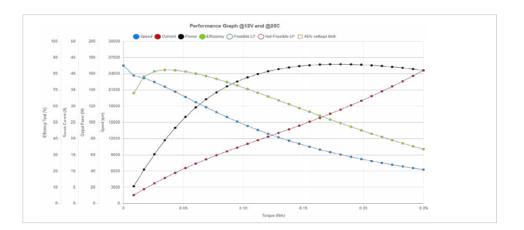
Technical data:

Operating voltage:	12 V
Operating voltage range:	9 – 16 V
Nominal speed:	2.000 – 16.000 rpm
Nominal torque	0,01 – 0,03 Nm
Nominal current :	0,3 – 7,0 A
Acceleration:	up to 4.000 rpm/s
Temperature range:	-40 °C - +130 °C
Length (nominal):	~ 50 mm
Diameter (nominal):	~ 85 mm
Weight:	~ 330 g
Communication interface :	LIN

Features:

- □ Motor: three-phase BLDC, sensorless, internal rotor
- With control electronics, (including interference suppression, inverse-polarity protection, diagnostic functions)
- $\hfill\square$ Motor in split pot design for media separation





Electric vacuum pump



Application:

Brake booster

Vacuum pump



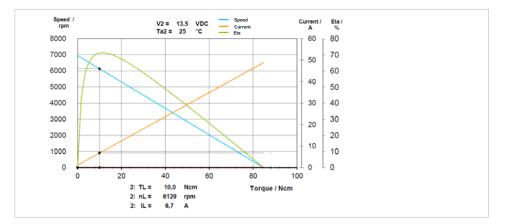
Technical data:

Power consumption:	80 W - 130 W	
Length (w/o) connector:	~ 100 mm (~ 3.94 inch)	
Diameter (motor):	~ 51 mm (~ 2.01 inch)	
Controlling:	PWM / On-Off / LIN	
Working life:	450.000 cycles	
Protection:	IP6K9K	
EMV CISPR25:	Level 5	



- □ Highly integrated design for vane pump
- □ Very tight tolerances
- □ Can be installed horizontally or vertically





Drivetrain Solutions



Solutions with maximum flexibility and scalability.

Actuators for x-by-wire: Our actuators take care of exact switching operations, clutch actuation and inserting the parking lock.



l Clean Air



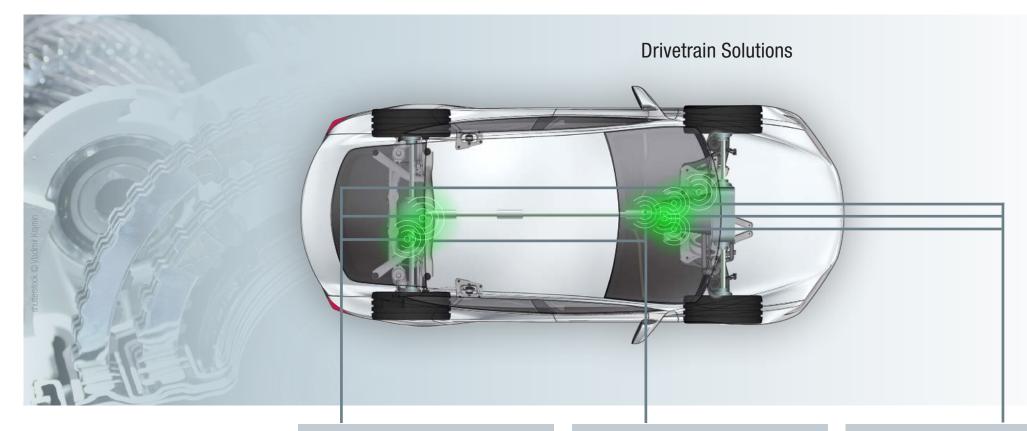
l Thermal Management



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Drivetrain Solutions





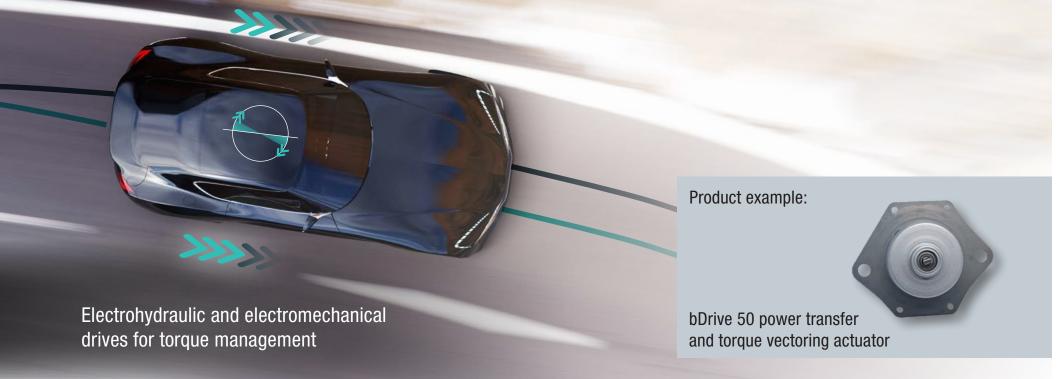


Electrohydraulic and electromechanical drives for torque management Electric pumps and pump drives for all-wheel drive



Electric oil pump drives bDrive

bDrive 50 power transfer and torque vectoring actuator



Applications:

- □ Torque vectoring
- □ Increases the performance by distribution
 - of the drive torque between the right and left wheel
- $\hfill\square$ Increase in vehicle stability in critical driving conditions

bDrive 50 power transfer and torque vectoring actuator

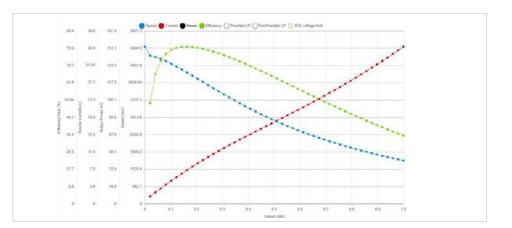
Technical data:

Power consumption:	100 W @ 12 V, room temperature
Product platform:	bDrive
Application:	Actuator
Voltage:	9 – 16 V
External dimensions:	Ø 50 mm
Ambient temperature range:	-40 - +140 °C
Temperature range of medium:	-40 - +140 °C
Controlling:	PWM / On-Off
Working life:	8000 hrs

Features:

- □ Actuator for clutch actuation in a torque vectoring system
- □ Cartridge installation
- $\hfill\square$ CCW and CW run for coupling and decoupling of clutches
- \Box High dynamic actuation 0 4600 rpm in 2 8 ms.
- \Box High corrosion resistance > 720 hrs.







bDrive 50 with integrated pump housing

Electric pumps and pump drives for all-wheel drive

Pumps and pump drives with very good synchronization allow the all-wheel clutch to be controlled directly. Using optional sensors, very precise, fast regulation of rotation speed across the entire working range.

Applications:

- Electro-hydraulic all-wheel clutch systems
- □ Transfer cases
- Locking differentials

Product example:



bDrive 50 with integrated pump housing

bDrive 50 with integrated pump housing



Technical data:

Power consumption:	170 W @ 12 V, room temperature
Product platform:	bDrive 50
Application:	Oil pump drive for activation of all-wheel drive
/oltage:	9 – 16 V
External dimensions:	approximately Ø 51 × 100 mm (w/ECO)
Ambient temperature range:	-40 - +125 °C
Temperature range of medium:	-40 - +115 °C
Controlling:	PWM / On-Off
Working life:	150 hrs
Protection:	IP6K9K

Features:

- □ Flexible interfaces for axial piston, gear wheel and gerotor pumps
- Optional hall-effect incremental sensors, GMR sensors
- □ Robust design for all all-wheel applications
- □ DC technology



Electric oil pumps and oil pump drives

Electric oil pumps and oil pump drives bFlow 0 and bDrive

Our family of electric gear oil pumps offers new functions in gears and enables efficiency to be dramatically increased, thus cutting CO₂ emissions. They provide special solutions for start/stop, coasting and electric driving, for specific lubrication and cooling, dry sump solutions and additional functions such as actuation of parking locks.



Application:

DCT, AT, CVT, AMT, BEV/hybrid transmissions (DHT)

> oil pump housing with micro-controller

oil pump drive for 7DCT

oil pump drive for transmission



bFlow 0100

Bühler Motor Bühle

Technical data:

Power consumption:	80 W – 150 W
Max. delivery:	15 bar (1500 kPa)
Max. flow rate:	15 l/min
Ambient temperature range:	-40 °C - +140 °C
Temperature range of medium:	-40 °C - +140 °C
Length (w/o) connector:	80 – 140 mm
Diameter (motor):	~ 50 mm
Controlling:	PWM / LIN / CAN
Working life:	10.000 hrs
Protection:	IP6K9K / within transmission
Applications:	Start-/stop-boosting

Features:

- □ Can be fully or partly integrated in the transmission
- □ Alternative: Installation externally on transmission
- □ Materials and sealing systems in accordance with the conditions of use and the oils used
- Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)
- □ Customer-specific communication (PWM / LIN / CAN- interface)
- □ Suitable for hybrid and all-electric applications





bFlow 0300



Technical data:

Power consumption:	300 W
Max. delivery:	2 bar
Max. flow rate:	18 I/min
Ambient temperature range:	-40 °C - +140 °C
Temperature range of medium:	-40 °C – +125 °C
Length (w/o) connector:	80 – 140 mm
Diameter (motor):	~ 60 mm
Working life:	12.600 hrs
Protection:	IP6K9K
Applications:	Cooling and lubrication of the clutch system (7DCT)

Features:

- □ Installation externally on transmission
- Materials and sealing systems in accordance with the conditions of use and the oils used
- □ Hydraulic requirement: use as gerotor
- □ Customer-specific communication (PWM)
- □ Suitable for hybrid and all-electric applications

bFlow 0600

Bühler Motor

Technical data:

Power consumption:	400 W - 600 W
Max. delivery:	up to 37 bar
Max. flow rate:	up to 13 l/min
Ambient temperature range:	10°C – +130°C
Temperature range of medium:	-40 °C - +125 °C
Length (w/o) connector:	110 – 145 mm
Diameter (motor):	~ 66 mm
Controlling:	CAN / PWM / internal controller
Working life:	10.000 hrs
Protection:	IP6K9K / IP68
Applications:	Hybrid and all-electric applications

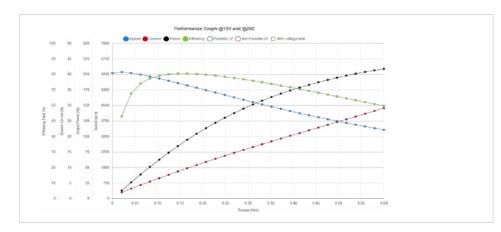


- i catules.
- $\hfill\square$ Can be fully or partly integrated in the transmission
- $\hfill\square$ Alternative: Installation externally on transmission
- Materials and sealing systems in accordance with the conditions of use and the oils used
- Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)
- Customer-specific communication (PWM / LIN / CAN interface)
- $\hfill\square$ Suitable for hybrid and all-electric applications



bDrive 50 oil pump housing with micro-controller





Subject to change without notice

Technical data:

Power consumption:	200 W @ 12 V, room temperature
Product platform:	bDrive 50
Application:	Oil pump drive
Voltage:	9 – 16 V
External dimensions:	approximately Ø 50 – 60 mm × 80 mm (w/ECO)
Ambient temperature range:	-40 - +125 °C
Temperature range of medium:	-25 – +125 °C
Controlling:	CAN
Working life:	7000 hrs
Protection:	IРХ9К

Features:

- □ Can be fully or partly integrated in the transmission
- □ Alternative: Installation externally on transmission
- Materials and sealing systems in accordance with the conditions of use and the oils used
- Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)
- □ Customer-specific communication (PWM / LIN / CAN interface)
- □ Suitable for hybrid and all-electric applications

bDrive 60 oil pump drive for 7DCT



Technical data:

Power consumption:	150 W @ 12 V, room temperature
Product platform:	bDrive 60
Application:	Oil pump drive
Voltage:	9 – 16 V
External dimensions:	approximately Ø 60 mm × 80 mm
Ambient temperature range:	-40 - +140 °C
Ambient temperature range: Temperature range of medium:	-40 - +140 °C -40 - +140 °C

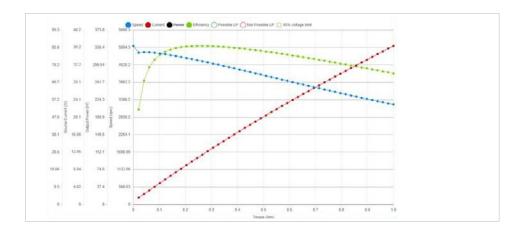


Features:

- $\hfill\square$ Can be fully or partly integrated in the transmission
- Materials and sealing systems in accordance with the conditions of use and the oils used
- Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)
- □ Customer-specific communication (PWM)
- □ Suitable for hybrid and all-electric applications

bDrive 60 oil pump drive for transmission





Technical data:

400 W @ 12 V, room temperature
bDrive 60
Oil pump drive
9 – 16 V
Ø 60 mm
-40 - +140 °C
-40-+140°C
7000 hrs

Features:

- □ Oil pump drive for automatic transmission in hybrid vehicles
- □ Support of main transmission oil pump
- □ Fully integrated in the transmission (submerged under oil)
- Materials and sealing systems in accordance with the conditions of use and the oils used
- Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)

bDrive 70 oil pump drive for hybrid vehicles

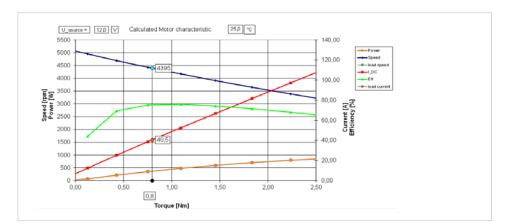


Technical data:

Power consumption:	600 W @ 12 V, room temperature
Product platform:	bDrive 70
Application:	Oil pump drive
Voltage:	9 – 16 V
External dimensions:	approximately Ø 67 mm × 110 mm
External dimensions: Ambient temperature range:	-40 – +140 °C
Ambient temperature range:	-40 - +140 °C



bDrive 70 oil pump drive for hybrid vehicles



Features:

- □ Oil pump drive for automatic transmission in hybrid vehicles
- □ Fully integrated in the transmission
- □ Materials and sealing systems in accordance with the conditions of use and the oils used
- □ Depending on hydraulic requirements, as flow or positive displacement pumps (impeller, gerotor or vanes)
- □ Customer-specific communication (PWM)
- □ Suitable for hybrid and all-electric applications

Thermal Management

| Thermal Management

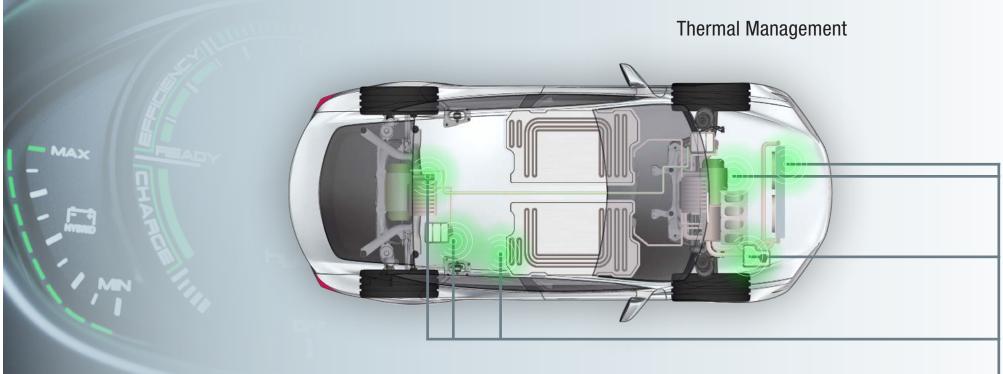
Energy-efficient in practice, precise temperature control.

Improved energy efficiency, less CO_2 , lower NO_x values, yet at the same time more comfort, safety and driving pleasure: With its innovative drive solutions precisely tailored to any requirements, Bühler Motor provides effective support here – and offers outstanding system expertise.

I Clean Air

bFlow C for hybrid and electric vehicles





bFlow C for hybrid and electric vehicles

For cooling the battery or precise temperature control of power electronics: Our auxiliary water pumps ensure that individual components are kept in an optimum operating range independently of each other.

auxiliary water pumps – bFlow C

Electric auxiliary water pumps – bFlow C

Electric auxiliary water pumps – bFlow C

Our family of water pumps covers a wide performance range. Depending on performance class, the optimized compact design and low weight combined with an ultra-flexible fixing concept open up a wide range of applications for our customers. Our standardized manufacturing concept means that all water pumps can be produced in our plants across the globe.



bFlow C1D-20

bFlow C3A-50



bFlow C3B-30



bFlow C5A-60



bFlow C5B-80-150



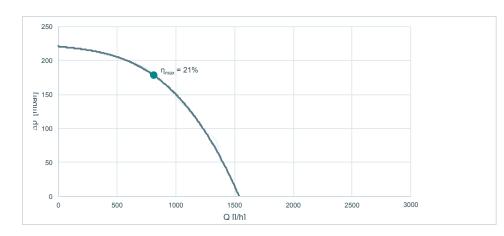
Applications:

- □ Auxiliary heating systems
- □ Internal heating
- Post shutdown cooling
- □ AGR and turbocharger cooling
- □ Battery and performance electronics cooling in hybrid applications
- Electric vehicles

bFlow C1D-20







exemplary performance curve

Technical data:

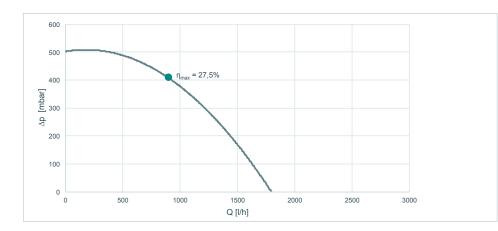
Power consumption:	~ 20 W
Max. delivery:	0,22 bar (22 kPa)
Max. flow rate:	1550 l/h (25,8 l/min)
Ambient temperature range:	-40 °C - +135 °C (-40 °F - 275 °F)
Temperature range of medium:	-40 °C – +135 °C (-40 °F – 275 °F)
Length (w/o) connector:	~ 56 mm (~ 2.20 inch)
Diameter (motor):	~ 53 mm (~ 2.20 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 35.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K
EMV CISPR25:	Level 5

Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: AGR, internal heating and post shutdown cooling

bFlow C3B-30





exemplary performance curve

Technical data:

Power consumption:	~ 30 W
Max. delivery:	0,5 bar (50 kPa)
Max. flow rate:	1800 l/h (30,0 l/min)
Ambient temperature range:	-40 °C – +135 °C (-40 °F – 275 °F)
Temperature range of medium:	-40 °C - +135 °C (-40 °F - 275 °F)
Length (w/o) connector:	~ 74 mm (~ 2.91 inch)
Diameter (motor):	~ 59 mm (~ 2.28 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 35.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K
EMV CISPR25:	Level 5

Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: charge air cooling, cooling for ancillary units

bFlow C3A-50

Bühler Motor **Bühle**

Technical data:

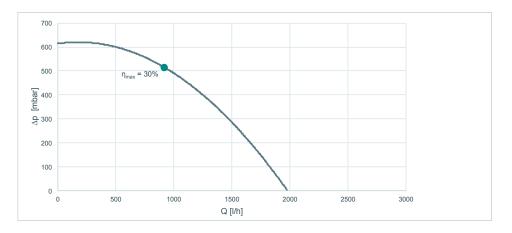
Power consumption:	~ 50 W
Max. delivery:	0,62 bar (62 kPa)
Max. flow rate:	1950 l/h (32,5 l/min)
Ambient temperature range:	-40 °C - +135 °C (-40 °F - 275 °F)
Temperature range of medium:	-40 °C - +135 °C (-40 °F - 275 °F)
Length (w/o) connector:	~ 74 mm (~ 3.22 inch)
Diameter (motor):	~ 59 mm (~ 2.28 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 35.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K

Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: Cooling for power electronics, temperature control for BEV and HEV



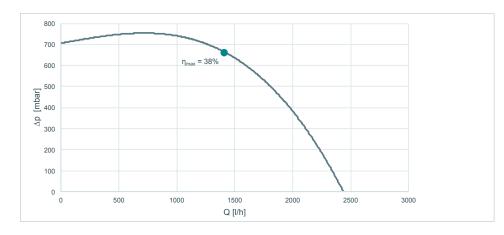
bFlow C3A-50



exemplary performance curve

bFlow C5A-60





exemplary performance curve

Technical data:

Power consumption:	~ 60 W
Max. delivery:	0,76 bar (76 kPa)
Max. flow rate:	2450 l/h (40,8 l/min)
Ambient temperature range:	-40 °C – +135 °C (-40 °F – 275 °F)
Temperature range of medium:	-40 °C – +135 °C (-40 °F – 275 °F)
Length (w/o) connector:	~ 138 mm (~ 5.43 inch)
Diameter (motor):	~ 70 mm (~ 2.76 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 35.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K

Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: Battery cooling und cooling for power electronicss

bFlow C5B-120

Technical data:

Max. flow rate: $4300 \text{ I/h} (71,6 \text{ I/min})$ Ambient temperature range: $-40 ^{\circ}\text{C} - +120 ^{\circ}\text{C} (-40 ^{\circ}\text{F} - 248 ^{\circ}\text{F})$ Temperature range of medium: $-40 ^{\circ}\text{C} - +90 ^{\circ}\text{C} (-40 ^{\circ}\text{F} - 194 ^{\circ}\text{F})$ Length (w/o) connector: $-140 \text{mm} (\sim 5.51 \text{inch})$ Diameter (motor): $\sim 80 \text{mm} (\sim 3.15 \text{inch})$ Controlling:PWM / On-Off / LIN	Power consumption:	~ 120 W
Ambient temperature range: $-40 ^{\circ}\text{C} - +120 ^{\circ}\text{C} (-40 ^{\circ}\text{F} - 248 ^{\circ}\text{F})$ Temperature range of medium: $-40 ^{\circ}\text{C} - +90 ^{\circ}\text{C} (-40 ^{\circ}\text{F} - 194 ^{\circ}\text{F})$ Length (w/o) connector: $\sim 140 ^{\circ}\text{mm} (\sim 5.51 ^{\circ}\text{inch})$ Diameter (motor): $\sim 80 ^{\circ}\text{mm} (\sim 3.15 ^{\circ}\text{inch})$ Controlling:PWM / On-Off / LIN	Max. delivery:	1,1 bar (110 kPa)
Temperature range of medium:-40 °C - +90 °C (-40 °F - 194 °F)Length (w/o) connector:~ 140 mm (~ 5.51 inch)Diameter (motor):~ 80 mm (~ 3.15 inch)Controlling:PWM / On-Off / LIN	Max. flow rate:	4300 l/h (71,6 l/min)
Length (w/o) connector:~ 140 mm (~ 5.51 inch)Diameter (motor):~ 80 mm (~ 3.15 inch)Controlling:PWM / On-Off / LIN	Ambient temperature range:	-40 °C - +120 °C (-40 °F - 248 °F)
Diameter (motor):~ 80 mm (~ 3.15 inch)Controlling:PWM / On-Off / LIN	Temperature range of medium:	-40 °C - +90 °C (-40 °F - 194 °F)
Controlling: PWM / On-Off / LIN	Length (w/o) connector:	~ 140 mm (~ 5.51 inch)
	Diameter (motor):	~ 80 mm (~ 3.15 inch)
Working life: up to 35.000 hrs (depending on application)	Controlling:	PWM / On-Off / LIN
	Working life:	up to 35.000 hrs (depending on application)
Protection: IP6K6K / IPX9K	Protection:	IP6K6K / IPX9K

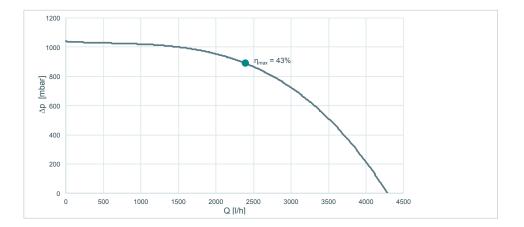




bFlow C5B-120

Features:

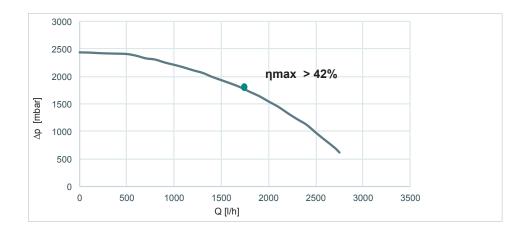
- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: Cooling for AC-DC converter and cooling for electric motor



exemplary performance curve

bFlow C7A-200





Technical data:

Power consumption:	~ 200 W
Max. delivery:	2.4 bar (240 kPa)
Max. flow rate:	3000 l/h (50 l/min)
Ambient temperature range:	-40 °C - +120 °C (-40 °F - 248 °F)
Temperature range of medium:	-40 °C - +90 °C (-40 °F - 194 °F)
Length (w/o) connector:	~ 160 mm (~ 6.3 inch)
Diameter (motor):	~ 74 mm (~ 2.9 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 35.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K

Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- □ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: Cooling for AC-DC converter and cooling for electric motor
- Optional with heating function (pump head integrated heating ring)

exemplary performance curve

bFlow C7A-300

Technical data:

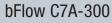
Power consumption:	~ 300 W
Max. delivery:	2.8 bar (280 kPa)
Max. flow rate:	4200 l/h (70 l/min)
Ambient temperature range:	-40 °C - +120 °C (-40 °F - 248 °F)
Temperature range of medium:	-40 °C - +90 °C (-40 °F - 194 °F)
Length (w/o) connector:	~ 175 mm (~ 6.9 inch)
Diameter (motor):	~ 74 mm (~ 2.9 inch)
Controlling:	PWM / On-Off / LIN
Working life:	up to 40.000 hrs (depending on application)
Protection:	IP6K6K / IPX9K

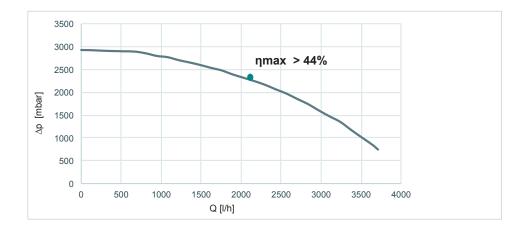
Features:

- □ Motor mounting possible
- □ Customized connection design (hydraulic, electric)
- □ Performance-specific hydraulic concept
- $\hfill\square$ Wet-running motor concept with static sealing concept
- □ Suitable for ICE, hybrid and fully electric applications
- □ Customer specific software for optimal efficiency
- □ Application examples: Cooling for AC-DC converter and cooling for electric motor
- □ Possibility of full integration (integrated pump head









exemplary performance curve

Contact

Europe

Bühler Motor GmbH Anne-Frank-Str. 33-35 90459 Nuremberg Germany Tel.: +49 911 45 04 0 Cell: +49 911 45 46 26 e-mail: info@buehlermotor.com

North America

Buehler Motor, Inc. 860 Aviation Parkway, Suite 300 Morrisville, NC 27560 USA Tel.: +1 919 380 3333 Fax: +1 919 380 3256 e-mail: sales@buehlermotor.com www.buehlermotor.com Asia

Buehler Motor (Zhuhai) Co., Ltd. Sales Office Shanghai Room 1602, UC Tower, No. 500 Fusahn Rd. Pudong, Shanghai, 200122 PR China Tel.: +86 21 6106 8618 Fax: +86 21 6106 8618 Ext. 8666 e-mail: sales@buehlermotor.cn www.buehlermotor.cn



We see. We understand. We deliver.



