

Company name: Created by:	national pumps and boilers
Phone:	01539 729395
Email:	info@nationlapumpsandboilers.co.uk
Date:	02/01/2024
Client:	
Client Number:	
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### Contact: Description Qty. TPE3 50-200 S-A-F-I-BQQE-HYC 1 Note! Product picture may differ from actual product Product No.: 98416677 Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework. The shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled, permanent-magnet synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. The pump is fitted with a combined temperature- and differential pressure sensor. The stainless-steel pump housing makes the pump suitable for circulation of hot water. The pump is suitable for applications requiring pressure or temperature control and offers following control modes: AUTOADAPT. This function continuously adjusts the proportional-pressure curve and automatically sets a more efficient curve without compromising comfort demands. FLOWADAPT. This control mode combines AUTOADAPT with a flow-limiting function. The pump continuously monitors the flow rate to ensure the desired maximum flow is not exceeded. This will save the cost of a separate pump-throttling valve. Constant differential pressure. The pump head is kept constant, independent of the flow in the system. Proportional pressure. The head of the pump will increase proportionally to the flow in the system to compensate for the large pressure losses in the distribution pipes. Constant temperature. The return-pipe temperature is kept constant. Note: If the pump is installed in the flow pipe, an external temperature sensor must be installed in the return pipe of the system. Constant differential temperature. The differential temperature can be measured by a differential-temperature sensor or two separate temperature sensors. Constant curve. The pump can be set to run at a constant speed in the range of 25 to 100 % of the maximum speed. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013 The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator. The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator liahts) "Alarm": Motor has stopped (flashing red indicator lights).

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Qty.   Description		
<ol> <li>Communication with the pump is also possible to enables further settings as well as reading out of input" and total "Power consumption".</li> <li>Cast-iron parts have an epoxy-based coating ma high-quality dip-painting process where an elect</li> </ol>	of a number of parameters su ade in a cathodic electro-dep	ich as "Actual value", "Speed", "Power position (CED) process. CED is a
a thin, well-controlled layer on the surface. Pump		
<ol> <li>Pump housing</li> <li>Impeller</li> <li>Neck ring</li> <li>Pump head/motor stool</li> <li>Stub shaft</li> <li>The pump housing is provided with a replaceabl running from the discharge side of the impeller to The impeller is secured to the shaft with a nut.</li> <li>The pump is fitted with an unbalanced rubber be bellows. Due to the bellows, the seal does not we</li> </ol>	to the suction side. ellows seal with torque transr	mission across the spring and around the
on the shaft. Seal faces: • Rotating seal ring material: silicon carbid • Stationary seat material: silicon carbide ( This material pairing is used where higher corro offers good resistance against abrasive particles	(SiC) sion resistance is required. T	The high hardness of this material pairing
Secondary seal material: EPDM (ethylene-propy EPDM has excellent resistance to hot water. EP The motor stool forms connection between the p screw for venting of the pump housing and the s housing is an O-ring.	ylene rubber) PDM is not suitable for minera oump housing and the motor.	, and is equipped with a manual air vent
The central part of the motor stool is provided w shaft is fastened directly on the motor shaft with	ith guards for protection again key and set screws.	inst the shaft and coupling. The pump
<b>Motor</b> The motor is a totally enclosed, fan-cooled moto tolerances comply with IEC 60034.		
The motor efficiency is classified as IE5 in account The motor requires no external motor protection quick-rising temperatures, e.g. constant overloa	n. The motor control unit incom	
<ul> <li>The terminal box holds terminals for these conn</li> <li>one dedicated digital input</li> <li>two analog inputs, 0(4)-20 mA, 0-10 V</li> <li>one configurable digital input or open-col</li> <li>Grundfos combined temperature and diff</li> <li>24 V voltage supply for sensors</li> </ul>	llector output ferential pressure sensor (sej	parate connected)
- two signal relay outputs (potential-free co	ontacts)	

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Qty.	Description	
1	- GENIbus connection	
	<ul> <li>interface for Grundfos CII</li> </ul>	M fieldbus module.
	Further product details	
	Cast-iron parts have an epoxy-bind high-quality dip-painting process a thin, well-controlled layer on th	ased coating made in a cathodic electro-deposition (CED) process. CED is a where an electrical field around the products ensures deposition of paint particles e surface.
	Technical data	
	Controls:	
	Frequency converter:	Built-in
	Liquid:	
	Pumped liquid:	Water
	Liquid temperature range:	-25 120 °C
	Selected liquid temperature:	20 °C
	Density:	998.2 kg/m <sup>3</sup>
		J J J J J J J J J J J J J J J J J J J
	Technical:	
	Pump speed on which pump dat	a are based: 4800 rpm
	Rated flow:	29.2 m³/h
	Rated head:	15 m
	Actual impeller diameter:	74 mm
	Code for shaft seal:	BQQE
	Curve tolerance:	ISO9906:2012 3B2
	Materials:	
	Pump housing:	Stainless steel
		EN 1.4308
		ASTM CF8
	Impeller:	Composite
		PES+30% GF
	Installation:	
	Range of ambient temperature:	-20 50 °C
	Maximum operating pressure:	10 bar
	Max pressure at stated temp:	10 bar / 120 °C
	Type of connection:	DIN
	Size of connection:	DN 50
	Pressure rating for connection:	PN 6/10
	Port-to-port length:	280 mm
	Flange size for motor:	56C
	Electrical data:	
	Motor type:	90SB
	Rated power - P2:	1.5 kW
	Mains frequency:	50 / 60 Hz
	Rated voltage:	1 x 200-240 V
	Rated current:	9.20-7.60 A
	Cos phi - power factor:	0.99
	Rated speed:	480-5900 rpm
	IE Efficiency class:	IE5
	Motor efficiency at full load:	87.5 %

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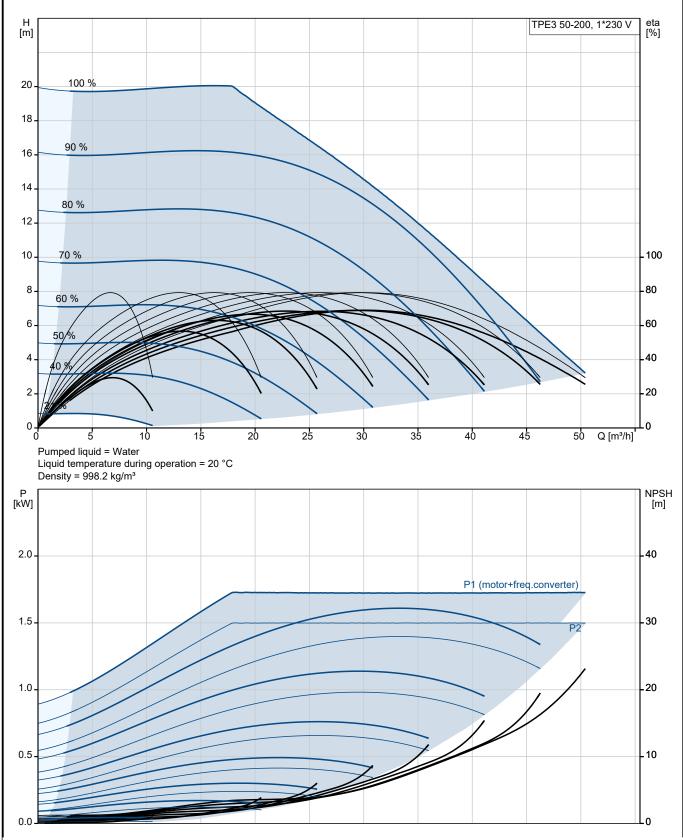
Qty.	Description	
1	Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	IP55 F 99138026
	Others: Minimum efficiency index, MEI ≥: Net weight: Gross weight: Shipping volume: Danish VVS No.:	0.70 26.7 kg 33.9 kg 0.104 m <sup>3</sup> 382142200



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## 98416677 TPE3 50-200 S-A-F-I-BQQE-HYC



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Pumps & Boilers	

Client: Client Number: Contact:           Value         Image: Client: Client Number: Contact:           TPE3 50-200 SAF-1-BOQE-HYC         Image: Client: Stability           98416677         Image: Client: Client Number: Contact:           98416677         Image: Client: Client Number: Client Number: Stability         Image: Client: Client Number: Client Number: Stability           200 dm         Image: Client: Client Number: Stability         Image: Client: Client Number: Stability         Image: Client: Client Number: Stability         Image: Client: Client: Stability           200 dm         Image: Client: Stability         Image: Client: Client: Stability         Image: Client: Stability         Image: Cli	5	Company name:national pumps and boilersCreated by:01539 729395Phone:01539 729395Email:info@nationlapumpsandboilers.Date:02/01/2024	co.uk
Value         Imposition         Impositon <th></th> <th>Client Number:</th> <th></th>		Client Number:	
TPE3 50.200         SA-F1-BQQE-HYC         98416577         5711494465420         4800 rpm         29.2 m/h         15 m         200 dm         74 nm         BQOE         ISO9906:2012 3B2         A         Stainless steel         EN 1.4308         EN 1.4308         PDS         10 bar         20.50 °C         10 bar         10 bar         10 bar         10 bar         10 bar         10 bar         20.50 °C         20°C         9988         15. kW         56/C         75%         15/SW         59/S         F         Water         -25120 °C         20°C         9058         15. kW         902-76.0 A </th <th>Value</th> <th></th> <th>eta [%]</th>	Value		eta [%]
TPE3 50-200 SAF-FLBQCE-HYC 98416677 571149465420 4800 rpm 92.2 m <sup>3</sup> /h 15 m 200 dm 74 mm BQQE Stainless steel EN 1.4308 A Stainless steel EN 1.4308 A Stainless steel EN 1.4308 A Stainless steel EN 1.4308 Composite PES+30% GF 1 -2050 °C 10 bar 10 bar 120 °C DIN 50 °C 10 bar 120 °C 20 °C			
98416677         5711494654420         4800 rpm         29.2 m?/h         15 m         200 dm         74 rmm         BQQE         ISO9906:2012 3B2         A         Stainless steel         EN 1.4308         ASTM CF8         Composite         PES+30% GF         I         -20.: 50 °C         10 bar         10 bar         10 bar         20: C         905         905         905         905         905         905         905         905         1:         1:         1:         2:0.: 50 °C         10 bar         2:0.: 50 °C         10 bar         905         1:5 kW         50 'C         90: 50         90: 50         90: 50         90: 50         1:         1: 200: 20 V         9: 20: 7:60 A         0: 99         9: 1: 200: 20 V         9: 1: 20: 20 V     <	TPE3 50-200	20	
3041007       5711494854420         4800 rpm       29.2 m/h         15 m       200 dm         74 mm       20.2 m/h         BQQCE       Iso9006:2012 3B2         A       Purpud lexide         Stainless steel       Pi         EN 1.4308       Qim         A       Purpud lexide         A       Purpud lexide         A       Purpud lexide         A       Pish30% GF         1       -0         -2050 °C       10 bar / 120 °C         Di N       D         DN SO       Pi         PN 6/10       280 mm         S6C       F         Water       -20 °C         20 °C       998.2 kg/m³         90SB       1.5 kW         50 /60 Hz       1.2 20°-240 V         9.20-7.60 A       0.99         991380266       Pi         HM300 - Graphical       F         HM300 - Advanced			
4800 rpm         29.2 m³/h         15 m         200 dm         74 mm         BQQE         BQQE         Stainless steel         EN 1.4308         A         Stainless steel         EN 1.4308         ASTM CF8         Composite         PES+30% GF         I         -2050 °C         10 bar         10 bar         10 bar         10 bar         PN 6/10         280 mm         56C         F         Water         -25 120 °C         20 °C         988         1.5 kW         9.058         1.5 kW         9.059         9.050 °C         98.2 kg/m³         9058         1.5 kW         9.99         9.99         9.99         9.99         9058         1.5 kW         9.99         9058         1.5 kW         1.5 kW         0.99         9058			
4800 rpm         29.2 m³/h         15 m         200 dm         74 mm         BQQE         ISO9906:2012 3B2         A         Stainless steel         EN 1.4308         ASTM CF8         Composite         PES+30% GF         I         -2050 °C         10 bar         10 bar         10 bar         20 °C         988         1.5 kW         50 / 60 Hz         1.5 kW         9058         1.5 kW         9059         90500 rpm         IE5         87.5 %         IP55         F	57 11494054420	80 %	-
29.2 m <sup>3</sup> h 15 m 200 dm 74 mm BQQE ISO9906:2012 3B2 A Stainless steel EN 1.4308 ASTM CF8 Composite PES+30% GF I -20 50 °C 10 bar 10 bar 10 bar 10 bar 10 bar 20 °C 10 bar 56 °C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 905.8 1.5 kW 50.76 0 Hz 1.5 kW 1.5 k	4800 rpm		
15 m200 dm74 mmBQOEISO9906:2012 3B2AStainless steelEN 1.4308ASTM CF8CompositePES+30% GFI-2050 °C10 bar10 bar10 bar10 bar10 bar10 bar280 mm56CFWater-25120 °C20 °C998.2 kg/m³905B1.5 kW50/60 Hz1.5 kW </td <td></td> <td>10 _ 70 %</td> <td>- 100</td>		10 _ 70 %	- 100
200 dm       40         74 mm       BOQE         BOQE       ISO9906:2012 3B2         A       Pumped liquid = Water         Stainless steel       Pumped liquid = Water         EN 1.4308       Pumped liquid = Water         Lquid temperature during operation = 20 °C         Domain PES+30% GF       1         -2050 °C       10         10 bar / 120 °C       0         DIN       0         DN 50       PN 6/10         280 mm       56C         F       Vater         -25120 °C       0         20 °C       998.2 kg/m³         90SB       1.5 kW         50 / 60 Hz       1.5 kW         1 x 200-240 V       2.0-760 A         0.99       420-5500 rpm         IE5       7.5 %         IPS5       F         ELCC       99138026         HM300 - Graphical       IM300 - Advanced		8-60%	- 80
200 dm 74 mm BQOE ISO9906:2012 3B2 A Stainless steel EN 1.4308 ASTM CF8 Composite PES+30% GF I -2050 °C 10 bar 10 bar 120 °C DIN DN 50 PN 6/10 280 mm 56C F Water -25120 °C 20 °C 998.2 kg/m <sup>3</sup> 905B 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HM300 · Graphical HM300 · Advanced		6-50%	- 60
BQQE       ISO9906:2012 3B2         A       Pumped liquid = Water         Stainless steel       Pumped liquid = Water         EN 1.4308       Immodel the steel of the steel			40
ISO9906:2012 3B2       A         A       Stainless steel         EN 1.4308       Purped laudid = Water         Composite       PES+30% GF         PES+30% GF       1         -20 50 °C       0         10 bar / 120 °C       0         DIN 0       0         S6C       F         Water       -225 120 °C         20 °C       0         998.2 kg/m <sup>3</sup> 905B         1.5 kW       50 60 Hz         1. x 200-240 V       920-7.60 A         0.99       480-5900 rpm         IE5       87.5 %         IP55       F         ELEC       99138026         HM300 - Graphical       IM300 - Advanced			20
A       d       5       10       15       2b       2b       3b       3b       4b       45       0 [m/h] <sup>1</sup> A       Stainless steel       Pumped liquid emperative during operation = 20 °C       Density = 988.2 kg/m <sup>2</sup> 0       5       10       15       2b       2b       3b       3b       4b       40         ASTM CF8       Composite       PES+30% GF       1       0       10       0       10       0       10       0       10       0       10       0 </td <td></td> <td></td> <td>L٥</td>			L٥
Stainless steel       Pumped upde * value         Stainless steel       Pumped upde * value         EN 1.4308       Pumped upde * value         ASTM CF8       Composite         Composite       P1 (mptor+freq converter)         PES+30% CF       1.5         10 bar       1.5         20 50 °C       1.5         10 bar       1.5         10 bar       1.5         20 c       C         90 SB       1.5 kW         50 / 60 Hz       1         1 x 200-240 V       2.20-7.60 A         9.99       480-5900 rpm         IE5       F         F       ELEC         99138026       Image and the state and t		0 5 10 15 20 25 30 35 40 45 Q'[m³/h]	•
Stainless steel       P         EN 1.4308       P         ASTM CF8       P         Composite       P         PES+30% GF       1         -2050 °C       10         10 bar       10         10 bar       10         10 bar       0         26120 °C       0         20 °C       998.2 kg/m³         90SB       1.5 kW         90SB       1.5 kW         1.5 kW       0         9.20-7.60 A       0         0.99       480-5900 rpm         1E5       87.5 %         1P55       F         ELEC       99138026         HMi300 - Graphical       F         HMi300 - Advanced       F	~		
EN 1.4308 ASTM CF8 Composite PES+30% GF I 2050 °C 10 bar 10 bar/120 °C DIN DN 50 PN 6/10 280 mm 56C F Water -25120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced	Stainless steel	Density = 998.2 kg/m <sup>3</sup>	_
ASTM CF8 Composite PES+30% GF I -20 50 °C 10 bar 10 bar/120 °C DIN DN 50 PN 6/10 280 mm 56C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20 - 7.60 A 0.99 40 40 40 40 40 40 40 40 40 40		– P [kW]	
Composite       P1 (motor+freq.com/enter)         PES+30% GF       1         -2050 °C       0         10 bar       0         20 °C       0         998.2 kg/m³       0         90SB       15.5 kW         50 / 60 Hz       1         1 x 200-240 V       9         920-7.60 A       0.99         480-5900 rpm       165         F       165         F       165         F       165         993026       10         1000 - Graphical       10         HMi300 - Graphical       10         FM300 - Advanced       10			
PES+30% GF       1         -2050 °C       10 bar         10 bar       10 bar         10 bar / 120 °C       0         DIN       0         DN 50       P         PN 6/10       280 mm         280 mm       0         56C       F         Vater       -25120 °C         -25120 °C       0         20 °C       998.2 kg/m³         90SB       15.6W         50 / 60 Hz       1         1 x 200-240 V       9.20-7.60 A         0.99       480-5900 rpm         IE5       87.5 %         F       ELEC         99138026       IMI300 - Graphical FM300 - Advanced			Γ
I       -2050 °C         10 bar       -2050 °C         10 bar       -0         10 bar       -0         10 bar       -0         10 bar       -0         0 bar       -0         1 bar       -0         1 bar       -0         1 bar       -0 <td></td> <td>- 15</td> <td>30</td>		- 15	30
-2050 °C 10 bar 10 bar / 120 °C DIN DN 50 PN 6/10 280 mm 56C F Water -25120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced		- ··· P2	
10 bar       0.5         10 bar / 120 °C       0.5         DIN       0.0         DN 50       0.0         PN 6/10       0.0         280 mm       56C         F       0.0         Water       0.0         -25 120 °C       0.0         20 °C       0.0         998.2 kg/m³       0.0         90SB       0.5         1.5 kW       0.60 Hz         1.5 kW       0.99         480-5900 rpm       15         IE5       7.5 %         IP55       F         ELEC       99138026         HMI300 - Graphical       Image: Company of the second o		1.0	_ 20
10 bar / 120 °C DIN DN 50 PN 6/10 280 mm 56C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20 - 7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced	-20 50 °C		
DIN DN 50 PN 6/10 280 mm 56C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced	10 bar	0.5	10
DN 50 PN 6/10 280 mm 56C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced	10 bar / 120 °C		
DN 80 PN 6/10 280 mm 56C F Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced	DIN	0.0	Lo
280 mm         56C         F         Water         -25 120 °C         20 °C         998.2 kg/m³         90SB         1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced	DN 50		
56C         F         Water         -25 120 °C         20 °C         998.2 kg/m³         90SB         1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced	PN 6/10	158	
FWater-25 120 °C20 °C998.2 kg/m³90SB1.5 kW50 / 60 Hz1 x 200-240 V9.20-7.60 A0.99480-5900 rpmIE587.5 %IP55FELEC99138026HMI300 - GraphicalFM300 - Advanced			
Water         -25 120 °C         20 °C         998.2 kg/m³         90SB         1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced			
Water         -25 120 °C         20 °C         998.2 kg/m³         90SB         1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced	F		
Water         -25 120 °C         20 °C         998.2 kg/m³         90SB         1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced			
20 °C 998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
998.2 kg/m <sup>3</sup> 90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced		φ 50 165	
90SB 1.5 kW 50 / 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
905B       1.5 kW       50 / 60 Hz       1 x 200-240 V       9.20-7.60 A       0.99       480-5900 rpm       IE5       87.5 %       IP55       F       ELEC       99138026       HMI300 - Graphical       FM300 - Advanced	990.∠ Ky/III°		
1.5 kW         50 / 60 Hz         1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced	90SB		
1 x 200-240 V         9.20-7.60 A         0.99         480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced			
1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
9.20-7.60 A 0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced		_ [	
0.99 480-5900 rpm IE5 87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
480-5900 rpm         IE5         87.5 %         IP55         F         ELEC         99138026         HMI300 - Graphical         FM300 - Advanced			
IE5     87.5 %       IP55     IE5       F     IE5       SUBJECT     IE1       99138026     IE1       HMI300 - Graphical     IE1       FM300 - Advanced     IE1			
87.5 % IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
IP55 F ELEC 99138026 HMI300 - Graphical FM300 - Advanced			
F     Image: Control of the second seco			
99138026 HMI300 - Graphical FM300 - Advanced			
HMI300 - Graphical FM300 - Advanced			
FM300 - Advanced			
FM300 - Advanced			
	HMI300 - Graphical		
Built-in	FM300 - Advanced		
	Built-in		

General information:

Pump speed on which pump data are

Description

Product name:

Product No: EAN number:

Technical:

Rated head:

Maximum head:

Curve tolerance:

Pump version: Materials:

Pump housing:

Pump housing:

Pump housing: Impeller:

Material code:

Range of ambient temperature:

Maximum operating pressure:

Max pressure at stated temp:

Pressure rating for connection:

Type of connection:

Size of connection:

Port-to-port length:

Connect code:

Electrical data:

Mains frequency:

Cos phi - power factor:

Motor efficiency at full load:

Enclosure class (IEC 34-5):

Insulation class (IEC 85):

Built-in motor protection:

IE Efficiency class:

Rated voltage:

Rated current:

Rated speed:

Motor No:

Controls:

Control panel:

Function Module: Frequency converter:

Liquid: Pumped liquid:

Density:

Motor type: Rated power - P2:

Flange size for motor:

Liquid temperature range: Selected liquid temperature:

Installation:

Impeller:

Code for shaft seal:

Actual impeller diameter:

based: Rated flow:

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Company name:	national pumps and boilers
Created by:	
Phone:	01539 729395
Email:	info@nationlapumpsandboilers.co.uk
Date:	02/01/2024
Client:	
Client Number:	
Contact:	

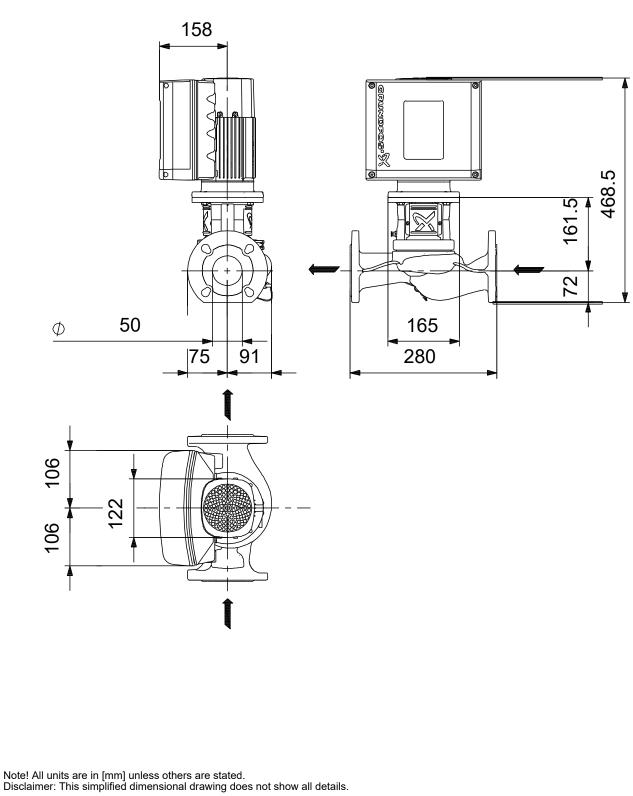
Description	Value
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	26.7 kg
Gross weight:	33.9 kg
Shipping volume:	0.104 m³
Config. file no:	98481401
Danish VVS No.:	382142200



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Phone:	01539 729395
Email:	info@nationlapumpsandboilers.co.uk
Date:	02/01/2024
Client:	

**Client Number:** Contact:

# 98416677 TPE3 50-200 S-A-F-I-BQQE-HYC





Company name:	national pumps and boilers
Created by:	
Phone:	01539 729395
Email:	info@nationlapumpsandboilers.co.uk
Date:	02/01/2024
Client:	

Client Number: Contact:

## 98416677 TPE3 50-200 S-A-F-I-BQQE-HYC

