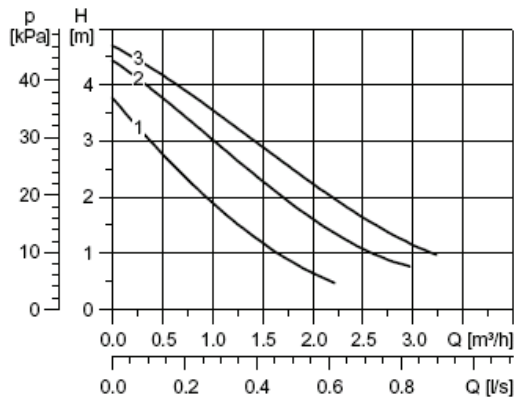
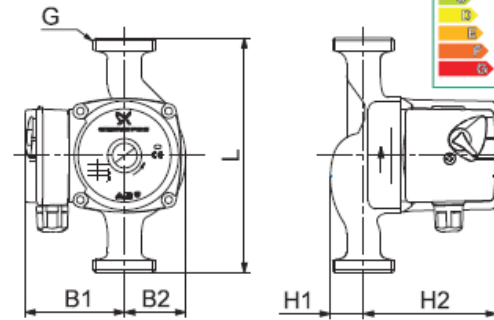


## UPS 15-50

1 x 230 V, 50 Hz



TM00 9750 2105



TM00 9386 2105 - TM03 0869 0705

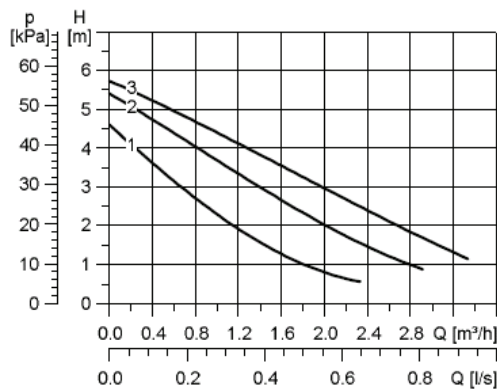
Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	50	0.23
2	45	0.20
1	35	0.16

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: +2 °C to +110 °C (TF 110)

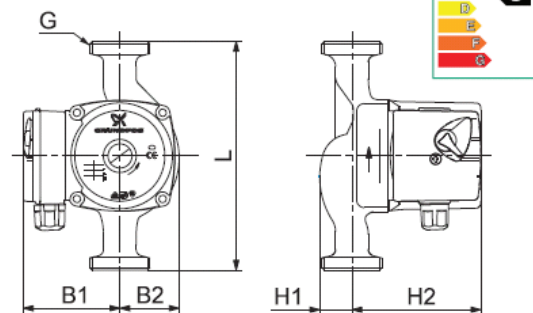
Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 15-50	130	28	102	75	51	1	2.3	2.5	0.004

## UPS 15-60

1 x 230 V, 50 Hz



TM04 3760 2409



TM04 3847 5108 - TM03 0870 0705

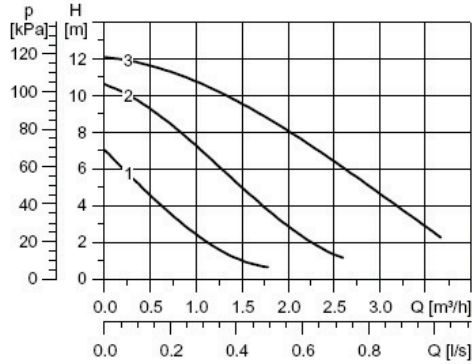
Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	65	0.32

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: +2 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 20-60 130)

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 15-60	130	28	102	75	51	1	2.3	2.5	0.004

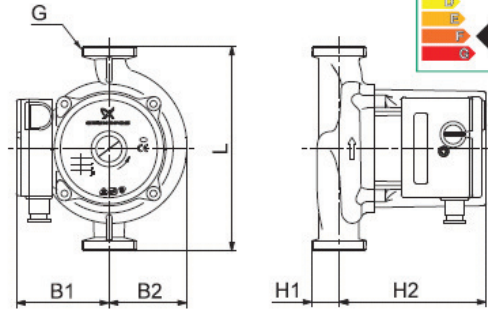
## UPS 25-120

1 x 230 V, 50 Hz



TM02 2205 4708

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	235	1.02
2	180	0.78
1	120	0.53



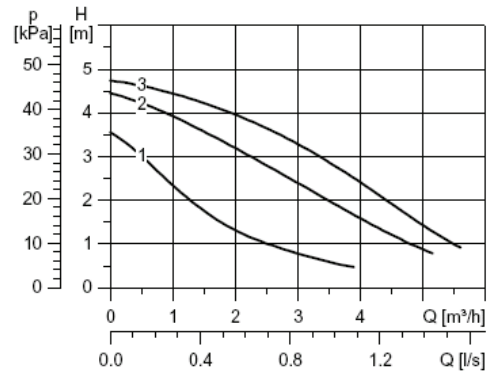
TM02 1325 2105 - TM03 0673 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: +2 °C to +95 °C (TF 110)

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m³]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 25-120	180	32	130	82	69	1 1/2	4.4	4.6	0.006

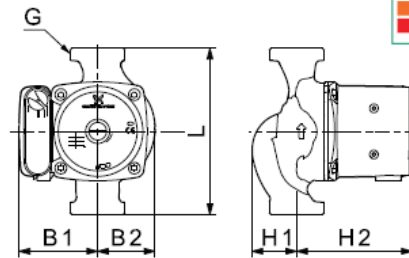
## UPS 25-55

1 x 230 V, 50 Hz



TM04 3751 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	85	0.38
2	80	0.36
1	65	0.30



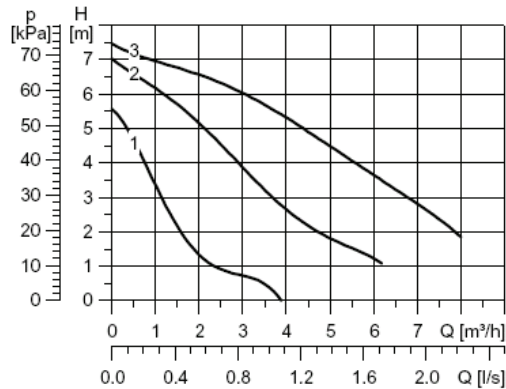
TM04 3847 5108 - TM03 0670 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N

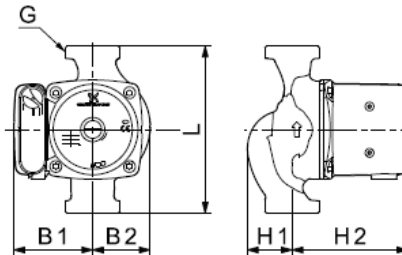
Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m³]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 25-55 (N)	180	46	125	85	62	1 1/2	4.6	4.7	0.008

## UPS 25-80

1 x 230 V, 50 Hz



Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	165	0.70
2	155	0.70
1	110	0.50



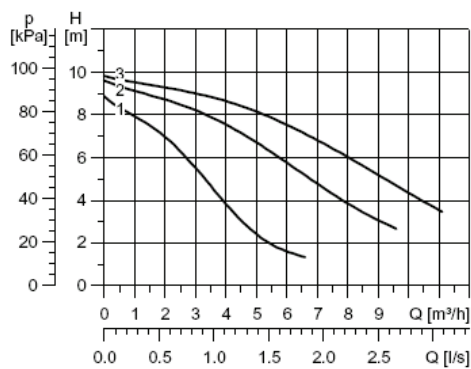
TM04 3847 5108 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 25-80 (N)	180	46	125	85	62	1 1/2	4.4	4.7	0.008

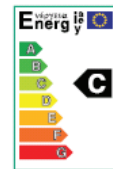
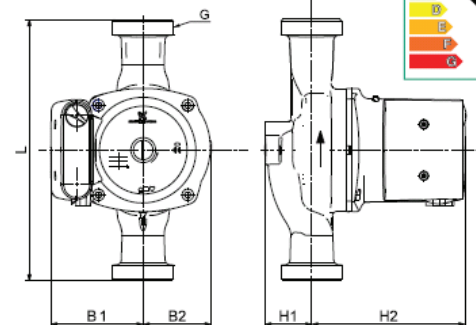
## UPS 25-100

1 x 230 V, 50 Hz



Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	345	1.52
2	340	1.50
1	280	1.30

The pump has a built-in thermal switch and requires no additional motor protection.



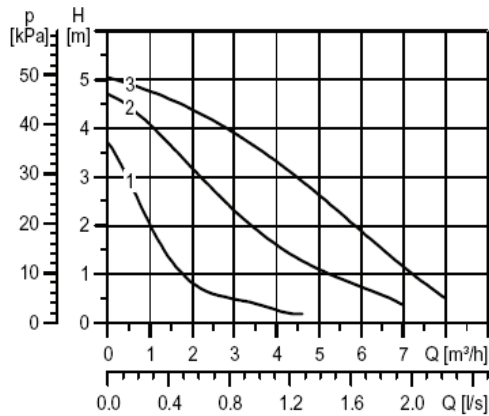
TM04 2809 3408 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 32-100 180)

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 25-100	180	47	150	90	68	1 1/2	6.3	6.8	0.012

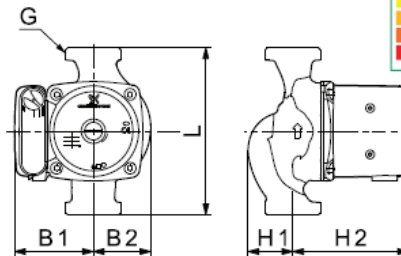
## UPS 32-55

1 x 230 V, 50 Hz



TM04 3760 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	65	0.32



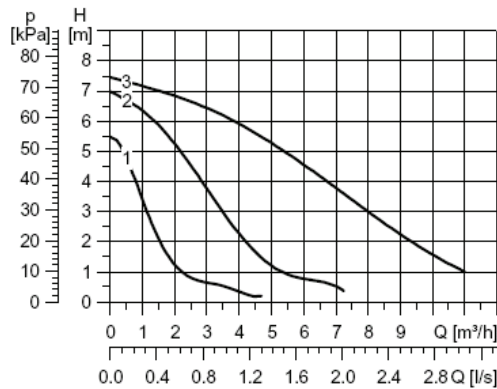
TM04 3847 5108 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 32-55 (N)	180	48	125	85	62	2	4.6	4.9	0.008

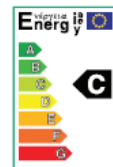
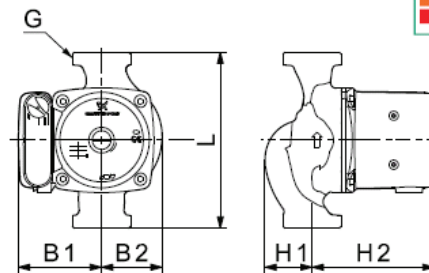
## UPS 32-80

1 x 230 V, 50 Hz



TM04 3761 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	220	0.98
2	200	0.90
1	135	0.60



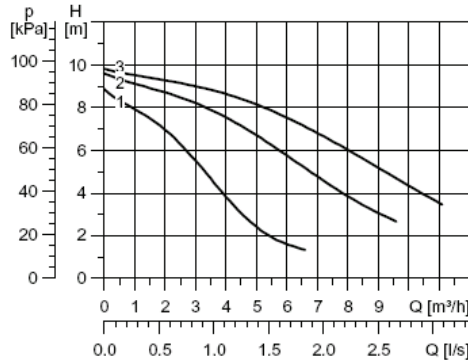
TM04 3847 5108 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 32-80 (N)	180	48	125	85	62	2	4.6	4.9	0.008

## UPS 32-100

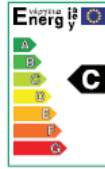
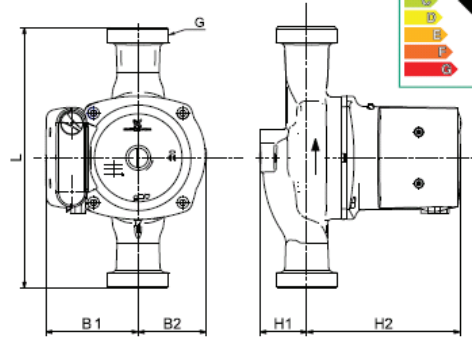
1 x 230 V, 50 Hz



TM04 3614 4708

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	345	1.52
2	340	1.50
1	280	1.30

The pump has a built-in thermal switch and requires no additional motor protection.



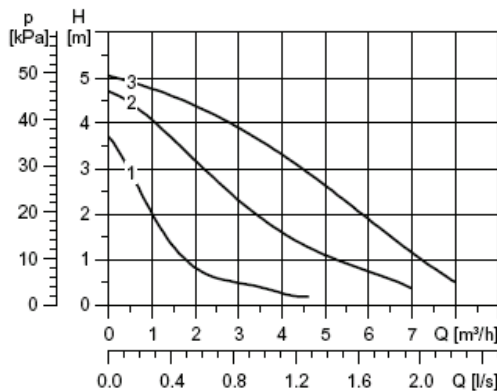
TM04 2809 3408 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 32-100 180)

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m³]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 32-100 (N)	180	47	150	90	68	2	6.4	7.0	0.012

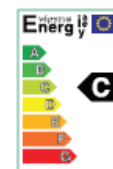
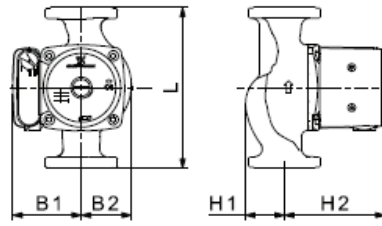
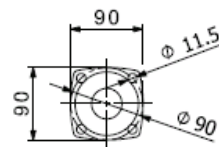
## UPS 36-50 F

1 x 230 V, 50 Hz



TM04 3760 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32



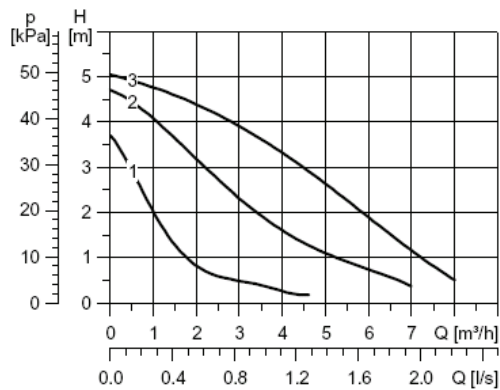
TM04 3843 0109 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)

Pump type	Dimensions [mm]						Weights [kg]		Ship. vol. [m³]
	L	H1	H2	B1	B2	G	Net	Gross	
UPS 36-50 F	200	48	125	85	62	-	5.7	6.0	0.010

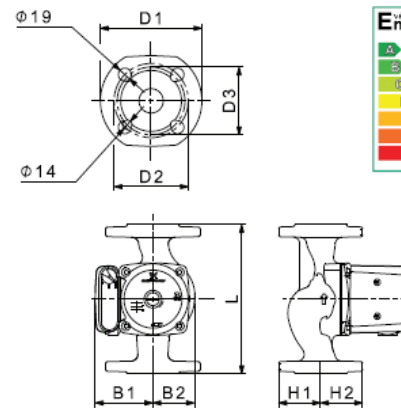
## UPS 40-50 F

1 x 230 V, 50 Hz



TM04 3760 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32



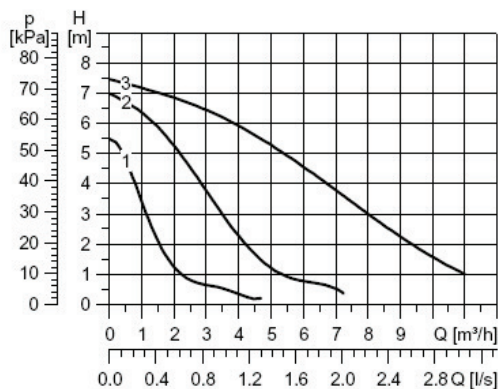
TM04 6005 4609 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 40-50 F 250)

Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	D1	D2	D3	H1	H2	B1	B2	G	Net	Gross	
UPS 40-50 F (N)	250	150	110	100	67	125	85	62	-	8.0	8.4	0.011

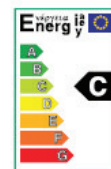
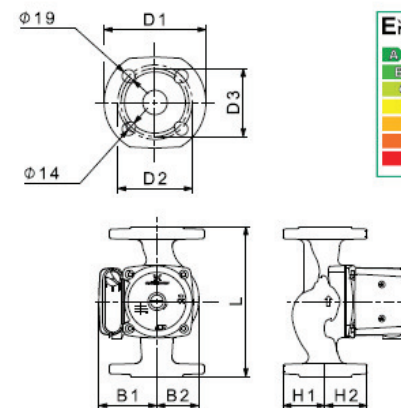
## UPS 40-80 F

1 x 230 V, 50 Hz



TM04 3761 2409

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	220	0.98
2	200	0.90
1	135	0.60



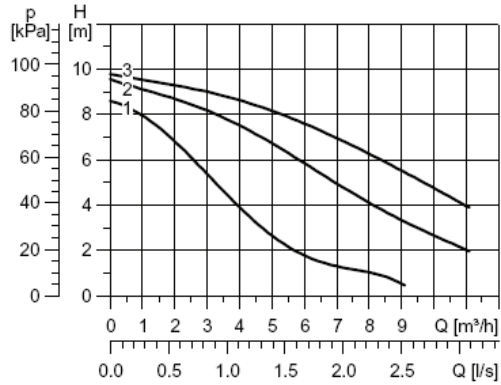
TM04 6005 4609 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 40-80 F 250)

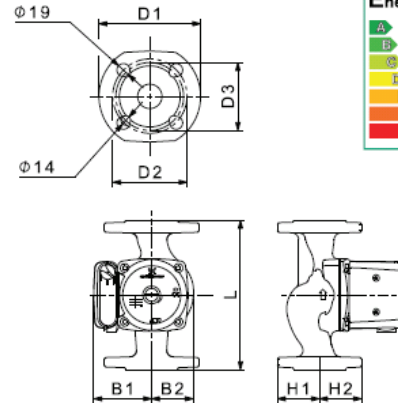
Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m <sup>3</sup> ]
	L	D1	D2	D3	H1	H2	B1	B2	G	Net	Gross	
UPS 40-80 F (N)	250	150	110	100	67	125	85	62	-	8.1	8.5	0.011

## UPS 40-100 F

1 x 230 V, 50 Hz



TM04 3616 4708



TM04 6006 4609 - TM03 0670 0705

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	345	1.52
2	340	1.50
1	280	1.30

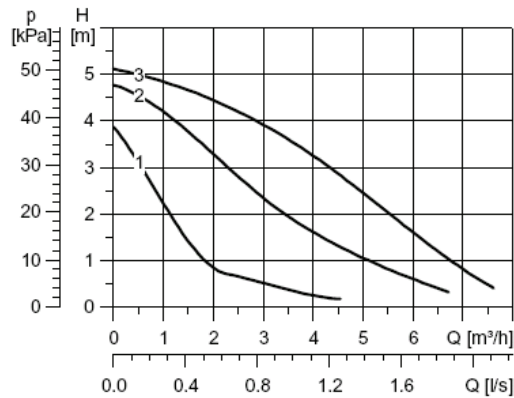
The pump has a built-in thermal switch and requires no additional motor protection.

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)  
 Also available with: Stainless-steel pump housing, type N (only UPS 40-100 F 250)

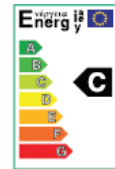
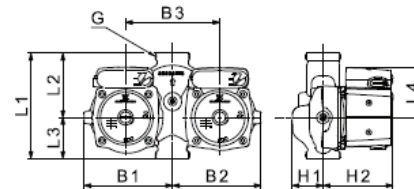
Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m³]
	L	D1	D2	D3	H1	H2	B1	B2	G	Net	Gross	
UPS 40-100 F (N)	250	150	110	100	62	150	90	68	-	9.6	10.4	0.016

## UPSD 32-50

1 x 230 V, 50 Hz



Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32



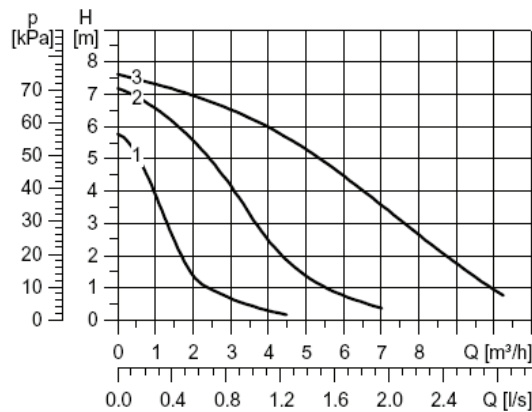
TM04 3841 5108 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)

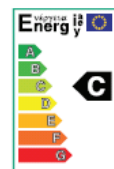
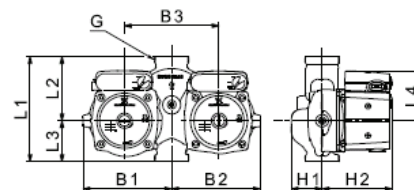
Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m <sup>3</sup> ]	
	L1	L2	L3	L4	H1	H2	B1	B2	B3	G	Net		Gross
UPSD 32-50	180	110	70	85	53	120	166	152	162	2	10.7	11.1	0.018

## UPSD 32-80

1 x 230 V, 50 Hz



Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32



TM04 3841 5108 - TM03 0870 0705

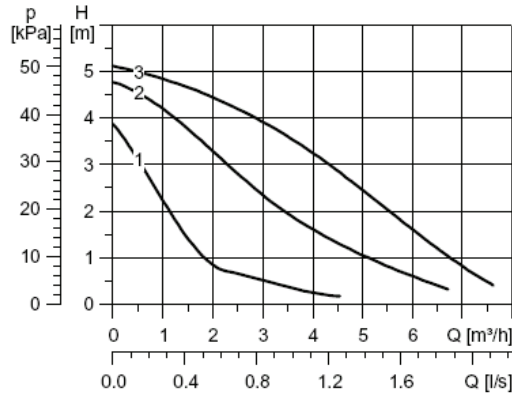
Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)

Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m <sup>3</sup> ]	
	L1	L2	L3	L4	H1	H2	B1	B2	B3	G	Net		Gross
UPSD 32-80	180	110	70	85	53	120	166	152	162	2	10.8	11.3	0.015

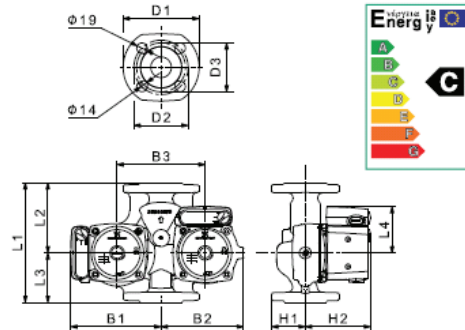


## UPSD 40-50 F

1 x 230 V, 50 Hz



TM04 3793 0000



TM04 6006 4609 - TM03 0870 0705

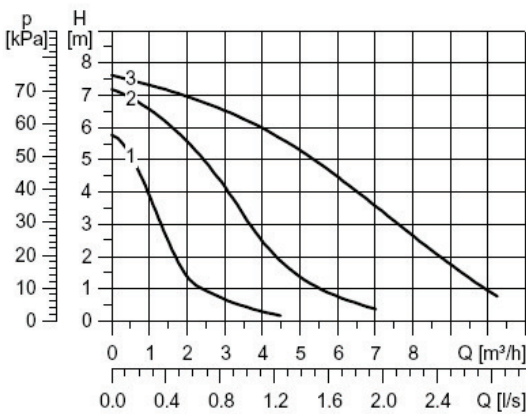
Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32

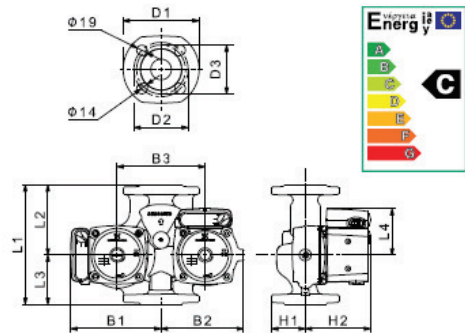
Pump type	Dimensions [mm]													Weights [kg]		Ship. vol. [m³]
	L1	D1	D2	D3	L2	L3	L4	H1	H2	B1	B2	B3	G	Net	Gross	
UPSD 40-50 F	250	150	110	100	129	121	85	67	120	166	152	162	-	14.1	14.8	0.021

## UPSD 40-80 F

1 x 230 V, 50 Hz



TM04 3794 0000



TM04 6006 4609 - TM03 0870 0705

Connections: See *Pipe connections* on page 51  
 System pressure: Max. 10 bar  
 Liquid temperature: -25 °C to +110 °C (TF 110)

Speed	P <sub>1</sub> [W]	I <sub>1/1</sub> [A]
3	105	0.46
2	100	0.44
1	75	0.32

Pump type	Dimensions [mm]													Weights [kg]		Ship. vol. [m³]
	L1	D1	D2	D3	L2	L3	L4	H1	H2	B1	B2	B3	G	Net	Gross	
UPSD 40-80 F	250	150	110	100	129	121	85	67	120	166	152	162	-	14.2	14.8	0.021

## PUMP CONNECTIONS & FITTINGS

### Screwed Connections

Pump Model	Pump Product Code	Pressure Rating (Bar)	Pump Connection	Union Connection BSPF	Union Product Code
UPS 15-50	96281426	10	1½" BSPM	1" 1½"	529922 529821
UPS 15-60	96281478				
UPS 25-120	52588336				
UPS 25-55	95906404				
UPS 25-80	95906429				
UPS 25-100	95906480				
UPS 32-55	95906409	10	2" BSPM	1½"	509922
UPS 32-80	95906442				
UPS 32-100	95906500				
UPSD 32-50	95906413	10	2" BSPM	1½"	509922
UPSD 32-80	95906455				

Fittings are not included in the box with circulators, and must be ordered separately.

### Flanged Connections

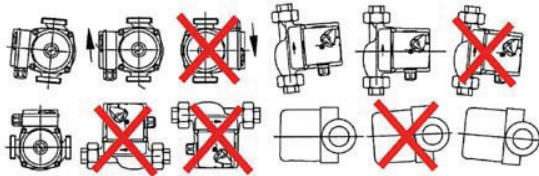
Pump Model	Pump Product Code	Pressure Rating (Bar)	Pump Connection	Pipe Connection BSPF	Flange Product Code
UPS36-50F	95906419	6	Square Flange	1½" 1½" 2"	509903 509904 509905
UPS 40-50F UPS 40-80F UPS 40-100F	95906420 95906463 95906486	10(4) *	Flanged to BS4504 6/11 NB 40mm	1½" 2" Special	539701 91200212
UPSD 40-50F UPSD 40-80F UPSD 40-100F	95906424 95906464 95906487	10(4) *	Flanged to BS4504 6/11 NB 40mm	1½" 2" Special	539701 91200212

\* 4 bar rated when used with special 2" Flange.

## Installation/Specification

### GENERAL

It is preferable to install Grundfos circulators in a vertical pipe pumping upwards. This position ensures that the pump shaft is horizontal, which reduces the thrust bearing load and ensures positive air purging from both the rotor chamber and impeller housing. Pumping downwards in a vertical pipe is not recommended, as this may lead to air locking of the pump, with resultant loss of performance.



Where pumps can only be installed in horizontal pipe work, it is imperative that the pump shaft is horizontal, or slightly higher at the vent plug end. The shaft must not fall below the horizontal plane, even by a few degrees, as this causes premature wear of the top bearing and shaft. Pumps must never be installed with the shaft in a vertical plane, as this may lead to dry running of the top bearing, noise and possible pump failure.

### SITING THE PUMP

- To avoid sediment do not fit the pump in the lowest part of the system.
- Fit isolating valves either side of the pump.
- To prevent noise avoid sharp bends either side of the pump.
- Position the motor away from heat sources, and allow access for removing the pump head from base and terminal box from the head.
- Always try to ensure that the terminal box is not adjacent to hot surfaces. Ensure pump speed switch is accessible on UPS models.
- In open-vented systems position the pump so that it neither pumps over into the feed and expansion tank nor causes air to be drawn down the vent pipe. Generally, this means fitting the pump in the flow pipe with the vent on the inlet side of the pump.
- In systems where all the flow can be stopped while the pump is running, e.g. in systems fitted with thermostatic radiator valves, a bypass should be fitted between flow and return pipes, to ensure water flow through the boiler and pump at all times. Approximately 7.5% of maximum pump capacity.
- Ensure that the pump is not stressed by the pipe work and that the pipe work is properly supported either side of the pump, if necessary use proprietary mounting brackets.

### OPERATING CONDITIONS

UPS 25 and UPS 32 are rated for a maximum system pressure of 10 bar (145psi). All UP/UPS 40 models are suitable for a maximum system pressure of 10 bars (145psi) except those models fitted with 2" BSPF counter flanges which have a 4 bar rating (58psi). Model UPS 36-50F is 6 bar rated.

Water temperature range: -25°C to +110°C, except for UPS 15-50 and UPS 15-60 models which are +2°C to +110°C.

The minimum inlet pressure for all models should be 0.5m at 82°C, 2.8m at 90°C and 11.0m at 110°C to avoid cavitation and to ensure quiet running of the pump. The minimum inlet pressure must be available at the pump inlet during operation to ensure satisfactory bearing life and to avoid cavitation.

### MATERIAL SPECIFICATION

Component	Material	Grade
Pump housing:	Cast Iron	EN-GJL-150/200
Stator housing:	Aluminium alloy	ALSi10Cu2
Shaft:	Ceramic	
Split cone:	Stainless steel	304
Impeller:	Composite	PP 30% GF
Neck ring:	Stainless steel	304
Rotor can:	Stainless steel	304
Rotor cladding:	Stainless steel	304
'O'rings:	Rubber	EPDM
Radial bearing:	Ceramic	
Thrust bearing:	Carbon	

### MOTOR DATA

Standard voltages:	240V Single Phase 50Hz
Motor enclosure class:	IP44
Winding insulation:	Class H on all models.

Single phase motors are protected by either thermal or impedance protection. No external protection is required.

### FLOW ADJUSTMENT

UPS/UPSD models are fitted with a three speed selector switch on the terminal box.

### PIPE CONNECTIONS

Grundfos circulators are not supplied with unions in the pump box. Please order these separately if required.