

Bombas circuladoras de rotor húmedo para calefacción

# UPS Series 200 (50Hz)



Las bombas circuladoras Grundfos tipo UPS y UPSD están diseñadas para la circulación de líquidos poco densos, limpios, no agresivos ni explosivos, sin partículas sólidas, fibras o aceite mineral en sistemas de calefacción y sistemas de refrigeración y aire acondicionado. En sistemas de agua caliente sanitaria se recomienda utilizar bombas de bronce.

### Gama adaptada

Cada bomba circuladora posee 3 velocidades de funcionamiento que permite elegir la curva que mejor se adapte a las necesidades del sistema.

Las bombas serie 200 ofrecen una amplia gama de resultados gracias a los más de 100 modelos disponibles tanto en versión monofásica (1x230V) como en versión trifásica (3x230V y 3x400V).

### Seguridad

Las bombas dobles permiten tener una bomba en reserva en caso de fallo. Además gracias al accesorio opcional módulo relé permite definir el modo de funcionamiento:

En alternancia, las bombas funcionan alternativamente en reserva y en servicio. Funcionamiento en reserva, en el que las bombas funcionan constantemente como bomba de servicio mientras que la otra se encuentra en reserva y como bomba sencilla que funcionan independientemente.

El módulo relé permite además, tanto en las bombas dobles como sencillas, la conexión directa de la bomba a un interruptor externo de red y un dispositivo externo para indicación de funcionamiento o fallo. La bomba se conecta directamente a la red, ya que incorpora protección contra sobrecarga en las 3 velocidades.

## UPS Series 200



## CARACTERÍSTICAS / CONSTRUCCIONES

Las bombas UPS y UPSD son del tipo rotor encapsulado, es decir, la bomba y el motor forman un conjunto sin cierre de eje y con solo dos juntas para el sellado. Los cojinetes están lubricados por el líquido bombeado. Estas bombas se caracterizan por:

- Cojinetes radiales en cerámica.
- Cojinete de empuje en carbono.
- Camisa del rotor, soporte del cojinete y revestimiento del rotor en acero inoxidable.
- Carcasa de la bomba en fundición o bronce.
- Estator con interruptor de sobrecarga térmica incorporado.
- Motor con 3 velocidades.
- Temperatura del líquido:
  - Durante breves períodos: +140°C
  - Constantemente de -10°C a +120°C
- Grado de protección IP44.
- Clase aislamiento H y F según modelos.
- Presión máxima de trabajo 10 bares.

La bomba no necesita protección externa si lleva incorporado el módulo de protección.

Las bombas sencillas y dobles pueden suministrarse con un módulo estándar en la caja de conexiones. El módulo estándar se conecta al suministro de red mediante un contactor exterior.

Dependiendo de la versión de fundición y de la aplicación de la bomba, la temperatura máxima del líquido puede estar limitada por las normativas locales.



### UPS 32-30 F 220, UPSD 32-30 F 220

#### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.05	1.3

#### Electrical data

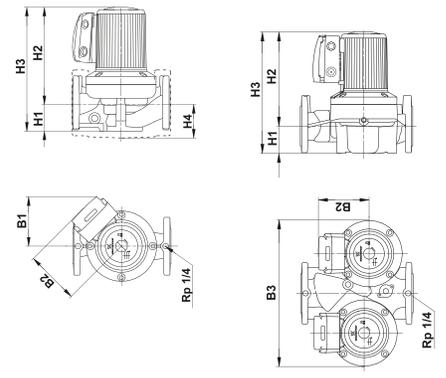
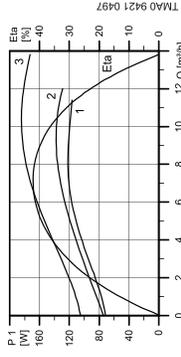
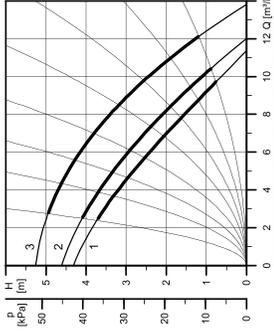
	$P_{max}$ [W]	$P_{min}$ [W]	I/I1	Cos $\phi$
<b>3 x 230 V</b>				
Speed 1	60	35	0.26	0.58
Speed 2	70	40	0.31	0.56
Speed 3	115	85	0.87	0.33
<b>3 x 400-415 V</b>				
Speed 1	60	35	0.15	0.58
Speed 2	70	40	0.18	0.56
Speed 3	115	85	0.50	0.33

Series 200 is also available for 1 x 230-240 V.

Single-head pumps are available with bronze housing, type B.

#### Energy labelling

Pump type	Energy class
UPS 32-30 F 220	3 x 230 V
UPSD 32-30 F 220	3 x 400-415 V
	D
	E
	E



TMA0 9419 0497

TMA0 0701 3601

#### Dimensions and weights

Pump type	PN	L1	L2	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship vol.	
UPS 32-30 F 220	6/10 220	-	110	135	141	-	75	75	-	80	110	110	88	245	312	104	32	76	90/100	140	14/19	M12	16.0	17.4	0.026
UPSD 32-30 F 220	6/10 220	103	52	-	141	360	180	180	100	200	-	-	68	242	310	-	32	76	90/100	140	14/19	M12	30.6	32.4	0.044

\*Weights of bronze versions are approx. 10 % higher.

### UPS 32-60 F 220, UPSD 32-60 F 220

#### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.2	1.5

#### Electrical data

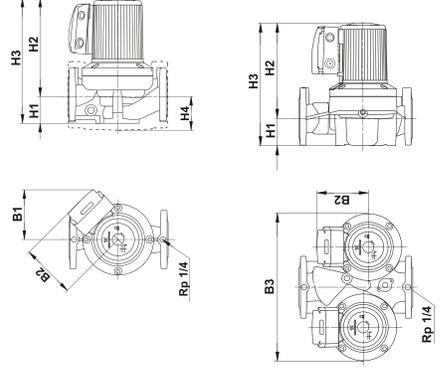
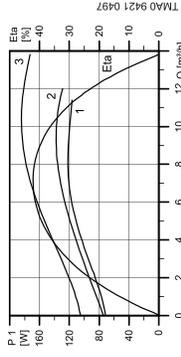
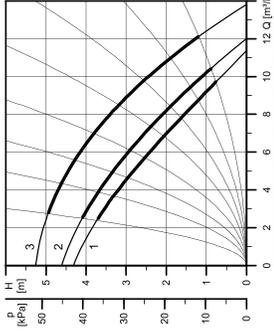
	$P_{max}$ [W]	$P_{min}$ [W]	I/I1	Cos $\phi$
<b>3 x 230 V</b>				
Speed 1	120	70	0.37	0.82
Speed 2	140	75	0.40	0.88
Speed 3	185	105	0.68	0.66
<b>3 x 400-415 V</b>				
Speed 1	120	70	0.21	0.82
Speed 2	140	75	0.23	0.88
Speed 3	185	105	0.39	0.68

Series 200 is also available for 1 x 230-240 V.

Single-head pumps are available with bronze housing, type B.

#### Energy labelling

Pump type	Energy class
UPS 32-60 F 220	3 x 230 V
UPSD 32-60 F 220	3 x 400-415 V
	C
	C
	C



TMA0 9421 0497

TMA0 0701 3601

#### Dimensions and weights

Pump type	PN	L1	L2	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship vol.	
UPS 32-60 F 220	6/10 220	-	110	135	141	-	75	75	-	80	110	110	88	242	310	103	32	76	90/100	140	14/19	M12	16.1	17.5	0.026
UPSD 32-60 F 220	6/10 220	103	52	-	141	360	180	180	100	200	-	-	68	242	310	-	32	76	90/100	140	14/19	M12	31.6	33.3	0.044

\*Weights of bronze versions are approx. 10 % higher.



## UPS 40-60/4 F 250

### Inlet pressure

$t_{in}$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.05	1.3

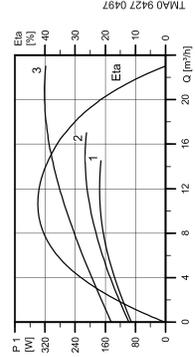
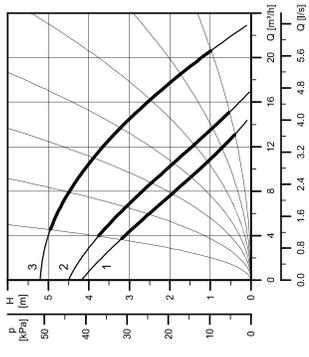
### Electrical data

	$P_{max}$ [W]			$I_{1/1}$ [A]			Cos $\phi$
	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	
3 x 230 V	175	90	100	0.66	0.79	0.82	
3 x 400-415 V	175	90	100	0.32	0.79	0.82	
Speed 1	175	90	100	0.38	0.82	0.82	
Speed 2	175	90	100	0.66	0.70	0.70	
Speed 3	320	145	0.66	0.70			

Series 200 is also available for 1 x 230-240 V  
Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 40-60/4 F 250	3 x 230 V C



TMA0 9427 0497

## UPS 40-30 F 254

### Inlet pressure

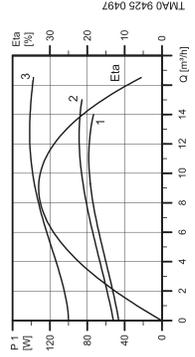
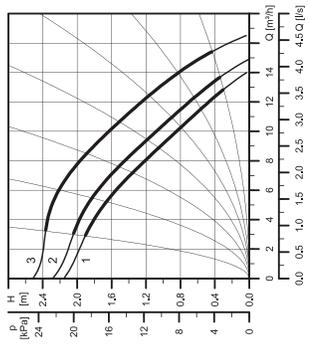
$t_{in}$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.15	1.45

### Electrical data

	$P_{max}$ [W]			$I_{1/1}$ [A]			Cos $\phi$
	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	
3 x 400-415 V	80	45	100	0.17	0.68	0.65	
Speed 1	80	50	0.52	0.39			
Speed 2	140	100	0.52	0.39			

### Energy labelling

Pump type	Energy class
UPS 40-30 F 254	3 x 400-415 V D



TMA0 9425 0497

## UPS 40-60/4 F 250

### Inlet pressure

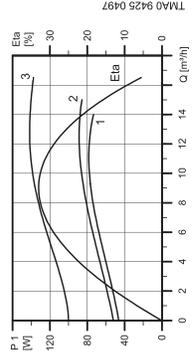
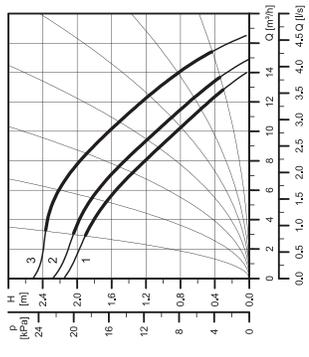
$t_{in}$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.15	1.45

### Electrical data

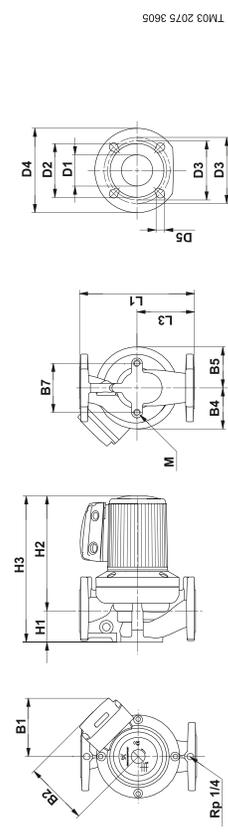
	$P_{max}$ [W]			$I_{1/1}$ [A]			Cos $\phi$
	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	
3 x 400-415 V	80	45	100	0.17	0.68	0.65	
Speed 1	80	50	0.52	0.39			
Speed 2	140	100	0.52	0.39			

### Energy labelling

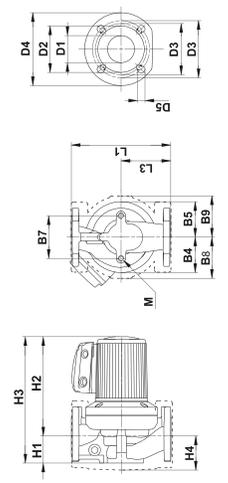
Pump type	Energy class
UPS 40-60/4 F 250	3 x 400-415 V D



TMA0 9425 0497



TM03 2075 3605



TM02 0701 3601

### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
		[mm]																				Weights [kg]*			
																						Net	Gross	[m³]	
UPS 40-30 F 254	6/10 254	-	127	135	141	-	85	75	-	120	118	110	68	249	317	-	40	84	100/110	150	14/19	M12	18.8	20.1	0.027
UPS 40-60/4 F 250	6/10 250	-	125	135	141	-	100	100	-	120	134	134	75	231	306	115	40	84	100/110	150	14/19	M12	20.8	22.4	0.034

\*Weights of bronze versions are approx. 10 % higher.

## UPS 40-60/2 F 220

### Inlet pressure

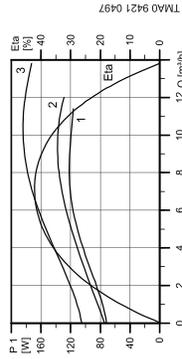
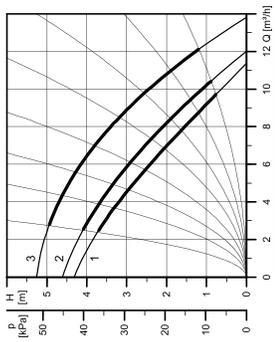
$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.15	0.45	1.75

### Electrical data

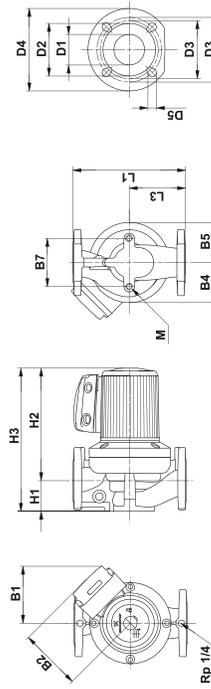
	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1 [A]	Cos $\phi$
Speed 1	120	70	0.21	0.82
Speed 2	140	75	0.23	0.88
Speed 3	185	105	0.39	0.68

### Energy labelling

Pump type	Energy class
UPS 40-60/2 F 220	3 x 400-415 V C



TMA03 9421 0497



TM03 2075 3605

### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 40-60/2 F 220	6/10 220	-	110	135	141	-	75	75	-	80	-	68	242	310	-	40	84	100/110	150	14/19	M12	18.3	19.6	0.027	

## UPS 40-60/2 F 250, UPSD 40-60/2 F 250

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.15	0.45	1.75

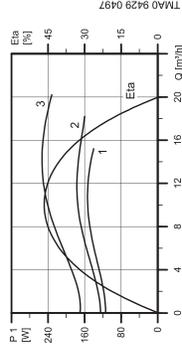
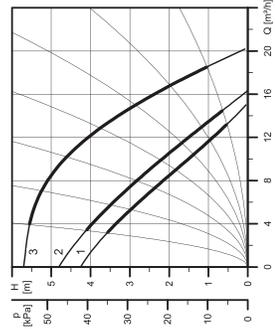
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1 [A]	Cos $\phi$
Speed 1	155	115	0.43	0.89
Speed 2	175	125	0.50	0.87
Speed 3	250	170	0.80	0.78

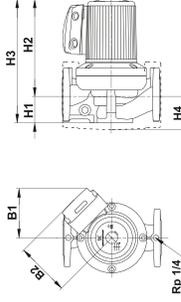
### Energy labelling

Pump type	Energy class
UPS 40-60/2 F 250	3 x 230 V C
UPSD 40-60/2 F 250	D

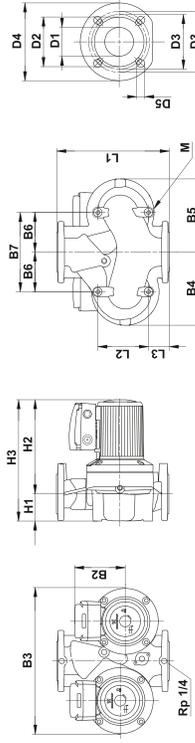
Series 200 is also available for 1 x 230-240 V Single-head pumps are available with bronze housing, type B.



TMA03 9429 0497



TM02 0701 3601



TM02 0703 3601

### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 40-60/2 F 250	6/10 250	-	125	135	141	-	75	75	-	80	110	110	68	248	316	103	40	84	100/110	150	14/19	M12	16.6	17.9	0.026
UPSD 40-60/2 F 250	6/10 250	125	145	-	141	360	180	180	100	200	-	-	68	246	314	-	40	84	100/110	150	14/19	M12	32.6	35.6	0.044

\*Weights of bronze versions are approx. 10 % higher.

## UPS 40-120 F 250, UPSD 40-120 F 250

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.1	0.4	1.7

### Electrical data

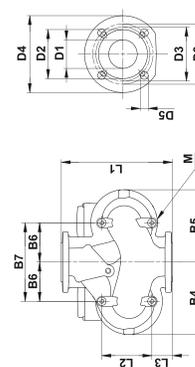
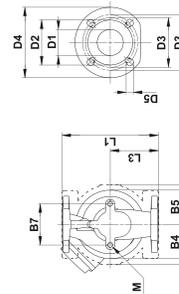
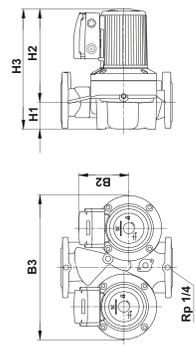
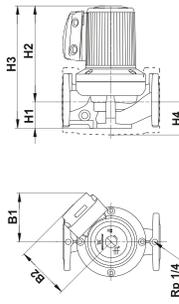
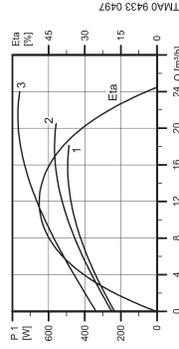
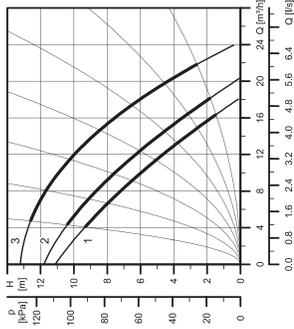
Speed	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	Cos
<b>3 x 230 V</b>				
Speed 1	290	175	0.85	0.85
Speed 2	330	190	0.87	0.85
Speed 3	460	260	1.60	0.72
<b>3 x 400-415 V</b>				
Speed 1	290	175	0.49	0.85
Speed 2	330	190	0.56	0.85
Speed 3	460	260	0.92	0.72

Series 200 is also available for 1 x 230-240 V

Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
3 x 230 V	3 x 400-415 V
UPS 40-120 F 250	C
UPSD 40-120 F 250	D



### Dimensions and weights

Pump type	PN	Dimensions [mm]					Weights [kg]		Ship. vol. [m <sup>3</sup> ]															
		L1	L2	L3	B1	B2	B3	B4		B5	M	Net Gross												
UPS 40-120 F 250	6/10 250	-	125	135	141	-	75	75	-	80	110	68	246	314	103	40	84	100/110	150	14/19	M12	17.7	19.2	0.026
UPSD 40-120 F 250	6/10 250	125	45	-	141	360	180	180	100	200	-	68	246	313	-	40	84	100/110	150	14/19	M12	33.0	37.7	0.044

\*Weights of bronze versions are approx. 10 % higher.

## UPS 40-180 F 250

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.4	0.7	1.95

### Electrical data

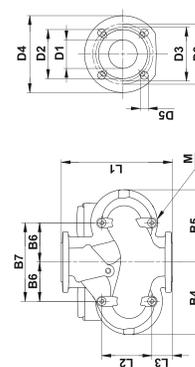
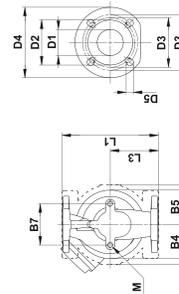
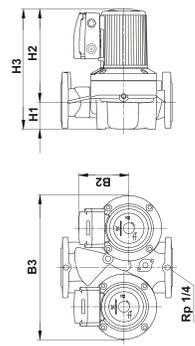
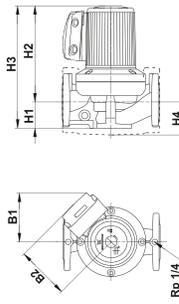
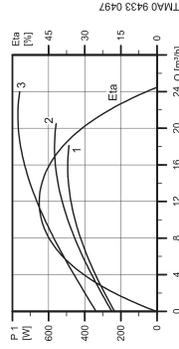
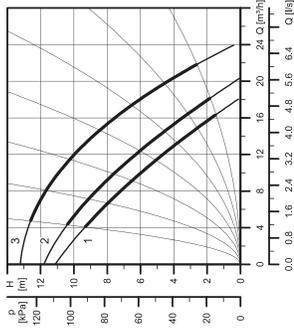
Speed	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	Cos
<b>3 x 230 V</b>				
Speed 1	490	235	1.43	0.86
Speed 2	570	250	1.63	0.86
Speed 3	770	350	2.26	0.85
<b>3 x 400-415 V</b>				
Speed 1	490	235	0.82	0.86
Speed 2	570	250	0.94	0.86
Speed 3	770	350	1.30	0.85

Series 200 is also available for 1 x 230-240 V

Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
3 x 230 V	3 x 400-415 V
UPS 40-180 F 250	C



### Dimensions and weights

Pump type	PN	Dimensions [mm]					Weights [kg]		Ship. vol. [m <sup>3</sup> ]																
		L1	L2	L3	B1	B2	B3	B4		B5	M	Net Gross													
UPS 40-180 F 250	6/10 250	-	125	145	169	-	100	100	-	80	134	134	66	240	308	106	40	84	100/110	150	14/19	M12	21.4	22.8	0.034

\*Weights of bronze versions are approx. 10 % higher.

## UPS 40-185 F 250

### Inlet pressure

$t_m$ [°C]	70	90	120
$H_{min}$ [bar]	0,55	0,90	1,8

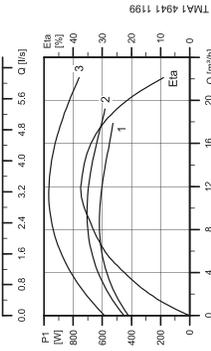
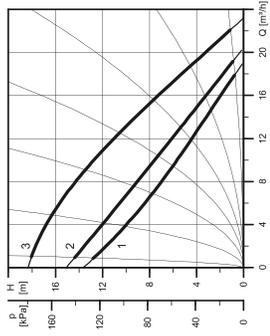
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I/I <sub>1</sub>	Cos $\phi$
Speed 1	620	415	1,04	0,86
Speed 2	705	450	1,18	0,86
Speed 3	975	580	1,30	0,78

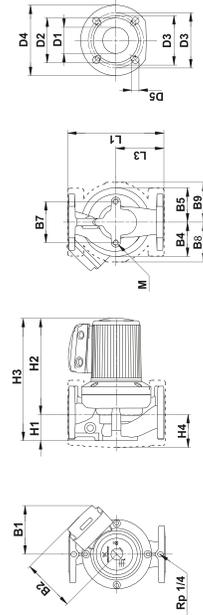
Series 200 is also available for 1 x 230-240 V

### Energy labelling

Pump type	Energy class
UPS 40-185 F 250	3 x 230 V C 3 x 400-415 V C



TMA1 4941 1199



TMA2 0701 3801

### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 40-185 F 250	6/10 250	-	125	142	135	-	100	102	-	96	-	67	243	310	-	42	88	100/110	150	147/19	M12	19,7	21,4	0,034	

## UPS 50-30 F 280, UPSD 50-30 F 280

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1,85	1,0	2,15

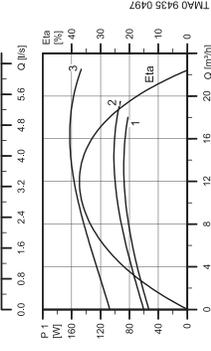
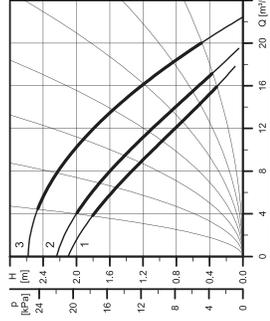
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I/I <sub>1</sub>	Cos $\phi$
Speed 1	90	55	0,37	0,62
Speed 2	100	60	0,38	0,66
Speed 3	160	105	0,90	0,44

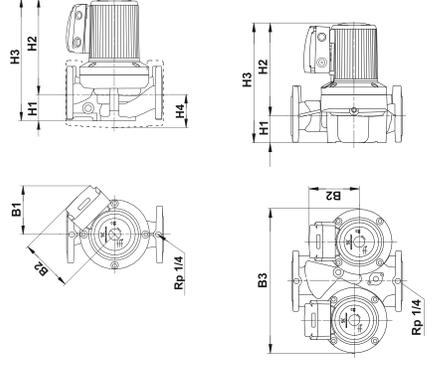
Series 200 is also available for 1 x 230-240 V.

### Energy labelling

Pump type	Energy class
UPS 50-30 F 280	3 x 230 V C 3 x 400-415 V C
UPSD 50-30 F 280	D



TMA0 9435 0497



TMA2 0701 3801

TMA2 0703 3801

### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 50-30 F 280	6/10 280	-	140	135	141	-	90	75	-	120	122	111	82	251	333	123	50	99	110/125	165	147/19	M12	20,7	22,3	0,054
UPSD 50-30 F 280	6/10 280	125	60	-	141	360	190	185	100	200	-	90	251	341	-	50	99	110/125	165	147/19	M12	37,0	40,1	0,061	

\*Weights of bronze versions are approx. 10 % higher.

**UPS 50-60/4 F 280, UPSD 50-60/4 F 280**

**Inlet pressure**

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.15	1.45

**Electrical data**

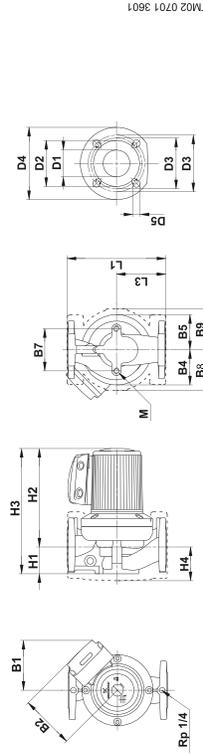
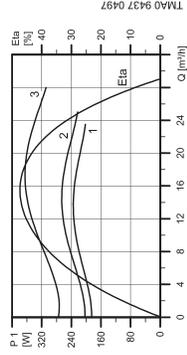
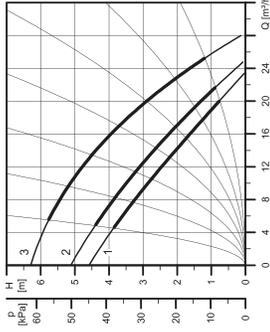
	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	I1/I1	Cos
<b>3 x 230 V</b>					
Speed 1	240	130	0.75	0.81	
Speed 2	290	140	0.87	0.84	
Speed 3	430	220	1.60	0.67	
<b>3 x 400-415 V</b>					
Speed 1	240	130	0.43	0.81	
Speed 2	290	140	0.50	0.84	
Speed 3	430	220	0.92	0.67	

Series 200 is also available for 1 x 230-240 V

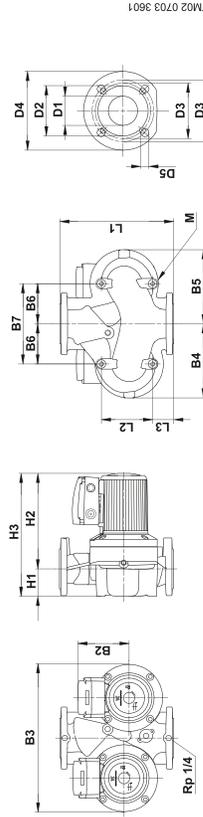
Single-head pumps are available with bronze housing, type B.

**Energy labelling**

Pump type	Energy class
UPS 50-60/4 F 280	3 x 400-415 V C
UPSD 50-60/4 F 280	D



TMA0 0701 9601



TMA0 0703 9601

**Dimensions and weights**

Pump type	PN	Dimensions [mm]										Weights [kg]		Ship. vol. [m³]	Net Gross [m³]									
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9			H1	H2	H3	H4	D1	D2	D3	D4	D5
UPS 50-60/4 F 280	6/10 280	-	140	135	141	-	110	100	-	120	135	82	236	318	120	50	99	110/125	165	14/19	M12	23.1	24.4	0.034
UPSD 50-60/4 F 280	6/10 280 126 60	-	169	450	225	120	240	-	82	236	318	-	50	102	125	165	14/19	M12	48.0	51.0	0.061			

\*Weights of bronze versions are approx. 10% higher.

**Inlet pressure**

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.35	1.65

**Electrical data**

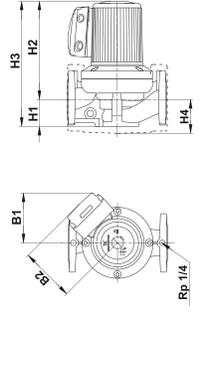
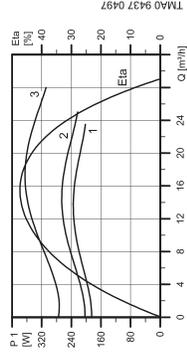
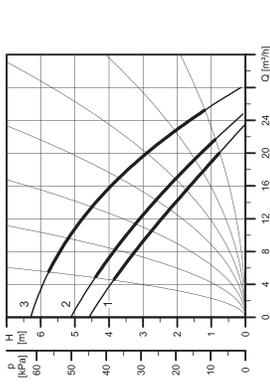
	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	I1/I1	Cos
<b>3 x 230 V</b>					
Speed 1	235	185	0.66	0.87	
Speed 2	270	205	0.78	0.87	
Speed 3	360	270	1.29	0.70	
<b>3 x 400-415 V</b>					
Speed 1	235	185	0.39	0.87	
Speed 2	270	205	0.45	0.87	
Speed 3	360	270	0.74	0.70	

Series 200 is also available for 1 x 230-240 V

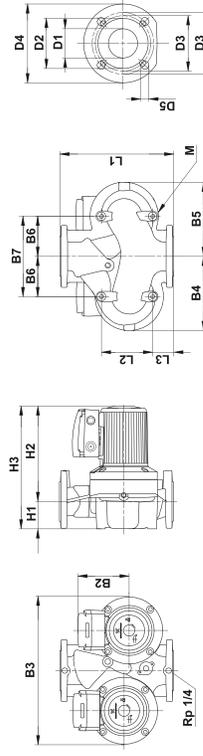
Single-head pumps are available with bronze housing, type B.

**Energy labelling**

Pump type	Energy class
UPS 50-60/2 F 280	3 x 230 V C
UPSD 50-60/2 F 280	D



TMA0 0701 9601



TMA0 0703 9601

**Dimensions and weights**

Pump type	PN	Dimensions [mm]										Weights [kg]		Ship. vol. [m³]	Net Gross [m³]										
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9			H1	H2	H3	H4	D1	D2	D3	D4	D5	M
UPS 50-60/2 F 280	6/10 280	-	140	135	141	-	90	75	-	120	122	111	75	263	328	123	50	99	110/125	165	14/19	M12	27.7	28.3	0.043
UPSD 50-60/2 F 280	6/10 280 125 60	-	141	370	190	100	200	-	75	254	329	-	50	99	125	165	14/19	M12	38.7	41.1	0.061				

\*Weights of bronze versions are approx. 10% higher.

## UPS 50-60/2 F 300

### Inlet pressure

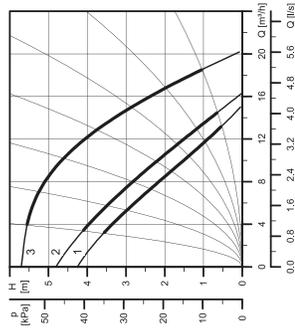
$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.05	0.35	1.65

### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I/I1	Cos
Speed 1	155	115	0.25	0.69
Speed 2	175	125	0.29	0.67
Speed 3	250	170	0.46	0.78

### Energy labelling

Pump type	Energy class
UPS 50-60/2 F 300	3 x 400-415 V
	C



TMA04 9429 0497

## UPS 50-120 F 280, UPSD 50-120 F 280

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.4	0.7	1.95

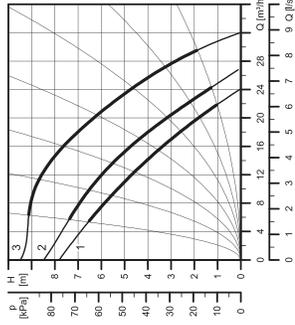
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I/I1	Cos
Speed 1	450	280	1.43	0.79
Speed 2	530	300	1.63	0.81
Speed 3	720	380	2.26	0.80

### Energy labelling

Pump type	Energy class
UPS 50-120 F 280	3 x 400-415 V
UPSD 50-120 F 280	C
	C

Series 200 is also available for 1 x 230-240 V.  
Single-head pumps are available with bronze housing, type B.

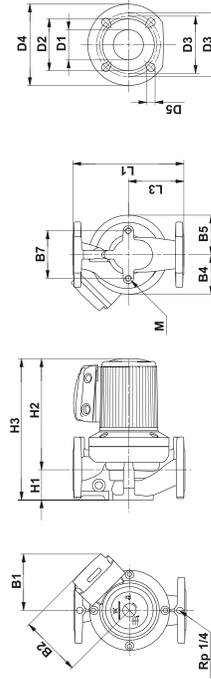


TMA04 9439 0497

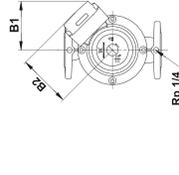
### Dimensions and weights

Pump type	Dimensions [mm]											Weights [kg]*		Ship. vol. [m³]										
	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9		H1	H2	H3	H4	D1	D2	D3	D4	D5	M
UPS 50-60/2 F 300	6/10 300	-	150	135	141	-	75	75	-	80	-	-	68	248	316	-	50	99	125	110/165	14/19	M12 21.8	23.4	0.034
UPSD 50-60/2 F 300	6/10 280	-	140	145	169	-	100	100	-	120	135	135	75	232	307	116	50	99	125	110/165	14/19	M12 24.3	25.4	0.034

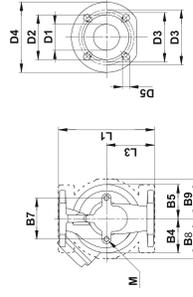
\*Weights of bronze versions are approx. 10 % higher.



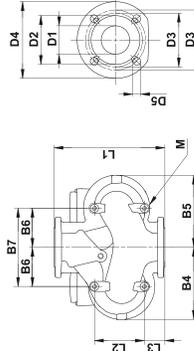
TM03 2075 3605



TM02 0701 3601



TM02 0703 3601



## UPS 50-180 F 280, UPSD 50-180 F 280

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.35	0.65	1.9

### Electrical data

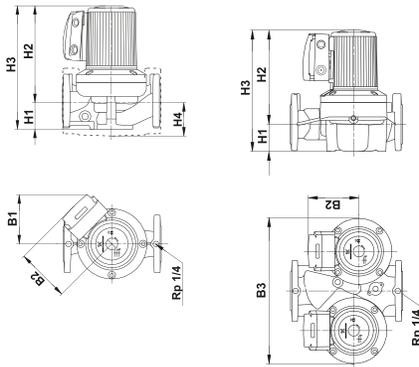
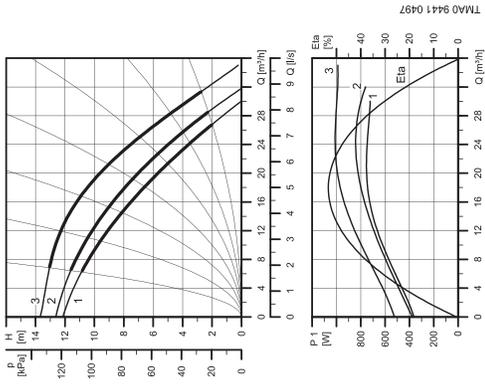
	$P_{max}$ [W]	$P_{min}$ [W]	$I1/1$ [A]	$I1/1$ [A]	$\cos$
3 x 230 V	Speed 1 760	360	2.17	0.88	
	Speed 2 850	380	2.43	0.88	
	Speed 3 1000	520	3.48	0.72	
3 x 400-415 V	Speed 1 760	360	1.25	0.88	
	Speed 2 850	380	1.40	0.88	
	Speed 3 1000	520	2.00	0.72	

Series 200 is also available for 1 x 230-240 V

Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 50-180 F 280	3 x 230 V C
UPSD 50-180 F 280	3 x 400-415 V C



### Dimensions and weights

Pump type	PN	Dimensions [mm]					Weights [kg]																		
		L1	L2	L3	B1	B2	B3	B4	B5	Ship. vol. [m³]															
UPS 50-180 F 280	6/10 280	-	140	145	169	-	100	100	120	135	135	75	276	351	116	50	99	125	150	185	141/19	M12	25.6	26.9	0.043
UPSD 50-180 F 280	6/10 280	126	60	-	169	450	225	225	120	240	-	75	276	351	-	50	99	125	150	185	141/19	M12	51.5	58.4	0.125

\* Weights of bronze versions are approx. 10 % higher.

## UPS 50-185 F 280

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1.85	1.0	2.15

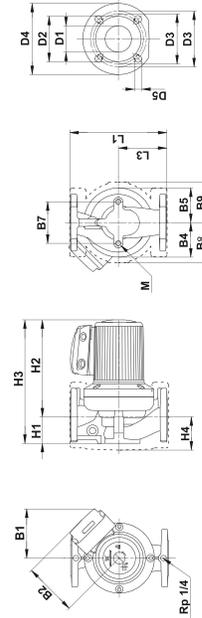
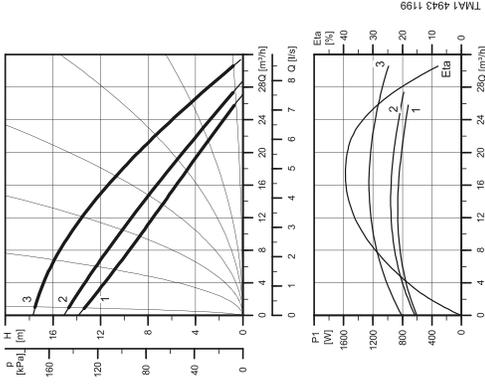
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	$I1/1$ [A]	$I1/1$ [A]	$\cos$
3 x 400-415 V	Speed 1 1150	710	5.60	0.89	
	Speed 2 1240	770	6.05	0.89	
	Speed 3 1290	810	6.00	0.93	

Series 200 is also available for 1 x 230-240 V

### Energy labelling

Pump type	Energy class
UPS 50-185 F 280	3 x 400-415 V D



### Dimensions and weights

Pump type	PN	Dimensions [mm]										Weights [kg]													
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net	Gross	Ship. vol. [m³]
UPS 50-185 F 280	6/10 280	-	140	145	165	-	91	104	-	96	-	75	274	349	-	50	99	110	125	165	141/19	M12	25.6	26.9	0.043

## UPS 65-30 F 340, UPSD 65-30 F 340

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.4	0.7	1.95

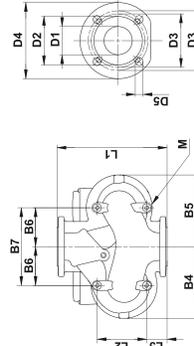
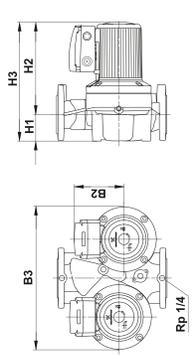
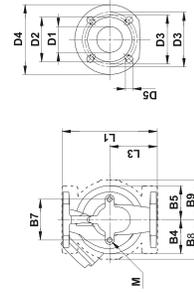
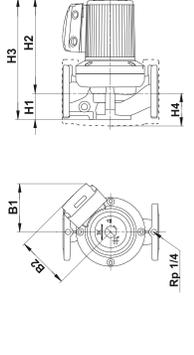
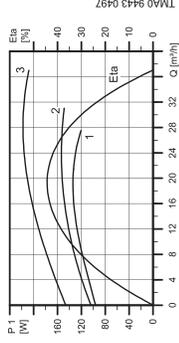
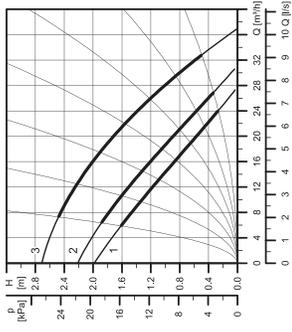
### Electrical data

	Speed	$P_{max}$ [kW]	$P_{min}$ [W]	I <sub>1/1</sub> [A]	I <sub>1/1</sub> [A]	Cos $\phi_1$
3 x 230 V	Speed 1	135	95	0.42	0.81	0.80
	Speed 2	155	105	0.49	0.80	0.60
	Speed 3	215	145	0.90	0.60	0.61
3 x 400-415 V	Speed 1	135	95	0.24	0.61	0.80
	Speed 2	155	105	0.28	0.60	0.80
	Speed 3	215	145	0.52	0.60	0.80

Series 200 is also available for 1 x 230-240 V  
Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 65-30 F 340	3 x 230 V C
UPSD 65-30 F 340	3 x 400-415 V D



### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 65-30 F 340	6/10 340	-	170	145	169	-	125	100	-	160	156	140	97	244	341	145	65	118	130/145	185	141/19	M16	29.3	31.2	0.065
UPSD 65-30 F 340	6/10 340	153	63	-	169	470	230	240	120	240	-	-	97	243	340	-	65	118	130/145	185	141/19	M12	56.5	65.1	0.125

\* Weights of bronze versions are approx. 10 % higher.

## UPS 65-60/4 F 340, UPSD 65-60/4 F 340

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0.55	0.85	2.1

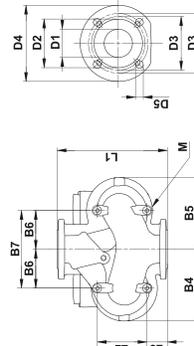
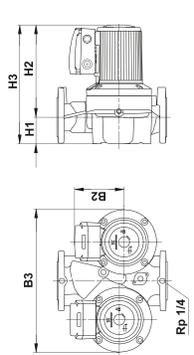
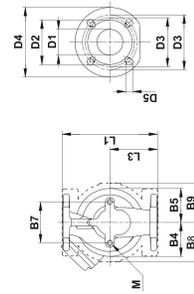
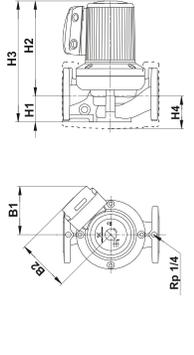
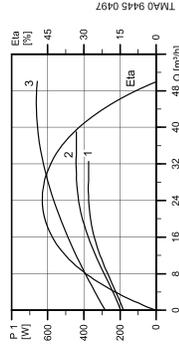
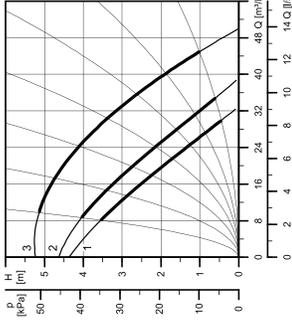
### Electrical data

	Speed	$P_{max}$ [kW]	$P_{min}$ [W]	I <sub>1/1</sub> [A]	I <sub>1/1</sub> [A]	Cos $\phi_1$
3 x 230 V	Speed 1	380	185	1.18	0.81	0.79
	Speed 2	440	200	1.39	0.79	0.71
	Speed 3	660	290	2.35	0.71	0.81
3 x 400-415 V	Speed 1	380	185	0.68	0.81	0.79
	Speed 2	440	200	0.80	0.79	0.71
	Speed 3	660	290	1.35	0.71	0.71

Series 200 is also available for 1 x 230-240 V  
Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 65-60/4 F 340	3 x 230 V C
UPSD 65-60/4 F 340	3 x 400-415 V D



### Dimensions and weights

Pump type	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	Ship. vol.
UPS 65-60/4 F 340	6/10 340	-	170	145	169	-	125	100	-	160	156	140	97	288	385	145	65	118	130/145	185	141/19	M16	32.5	34.5	0.055
UPSD 65-60/4 F 340	6/10 340	153	63	-	169	470	240	230	120	240	-	-	97	288	385	-	65	118	130/145	185	141/19	M12	63.0	69.9	0.125

\* Weights of bronze versions are approx. 10 % higher.



## UPS 65-120 F 280

### Inlet pressure

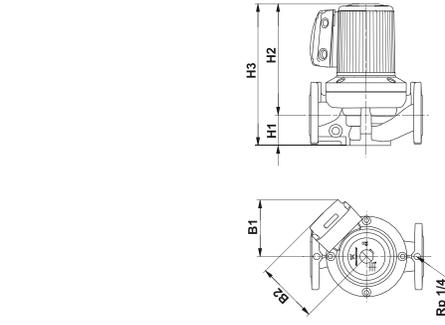
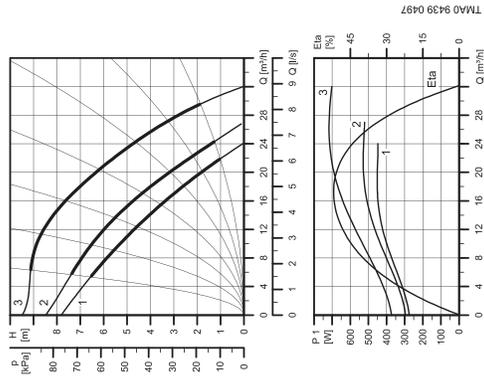
$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0,9	1,2	2,45

### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I1/I	Cos
Speed 1	450	280	0,82	0,79
Speed 2	530	300	0,94	0,81
Speed 3	720	380	1,30	0,80

### Energy labelling

Pump type	Energy class
UPS 65-120 F 280	3 x 400-415 V C



TMA0 2075 3605

### Dimensions and weights

Pump type	PN	Dimensions [mm]					Weights [kg]		Shipp. vol.														
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net	Gross
UPS 65-120 F 280	6/10 280	-	140	145	169	-	100	100	-	75	236	311	-	65	118	130/185	14/19	M12	25,6	27,1	0,043		

## UPS 65-120 F 340, UPSD 65-120 F 340

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	0,9	1,2	2,45

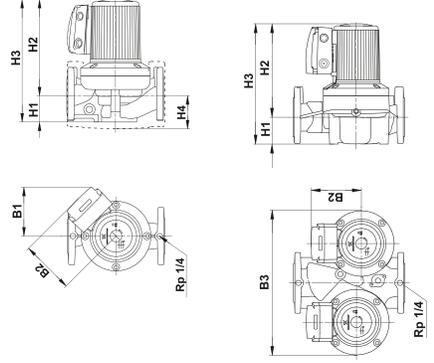
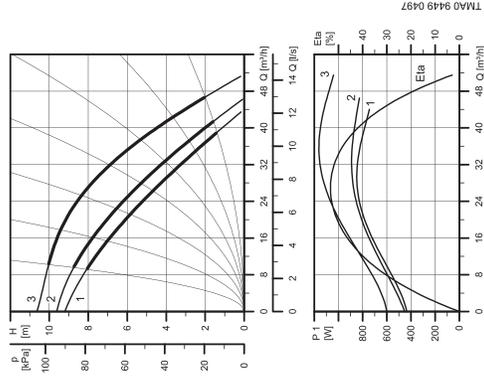
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I1/I	Cos
Speed 1	850	440	2,35	0,91
Speed 2	900	460	2,52	0,90
Speed 3	1150	600	3,74	0,77

### Energy labelling

Pump type	Energy class
UPS 65-120 F 340	3 x 230 V C
UPSD 65-120 F 340	C

Series 200 is also available for 1 x 230-240 V  
Single-head pumps are available with bronze housing, type B.



TMA0 0701 3601

TMA0 0703 3601

### Dimensions and weights

Pump type	PN	Dimensions [mm]											Weights [kg]		Shipp. vol.										
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	D1	D2	D3	D4	D5	M	Net	Gross		
UPS 65-120 F 340	6/10 340	-	170	145	169	-	100	100	-	120	140	140	140	82	285	367	127	65	118	130/185	14/19	M12	27,4	28,8	0,043
UPSD 65-120 F 340	6/10 340	153	63	-	169	450	225	225	120	240	-	-	82	286	368	-	65	118	130/185	14/19	M12	53,0	60,0	0,125	

\* Weights of bronze versions are approx. 10 % higher.



## UPS 80-30 F 360, UPSD 80-30 F 360

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1.15	1.45	2.7

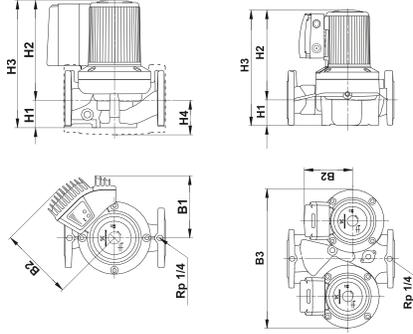
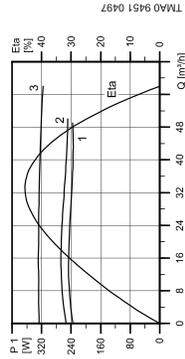
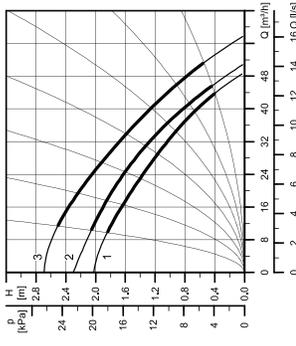
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I1/I	Cos $\phi$
Speed 1	240	230	0.87	0.69
Speed 2	260	250	1.01	0.65
Speed 3	330	320	2.00	0.41
Speed 1	240	230	0.50	0.69
Speed 2	260	250	0.58	0.65
Speed 3	330	320	1.15	0.41

Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 80-30 F 360	3 x 230 V
UPSD 80-30 F 360	3 x 400-415 V
	D
	D



TM02 0697 3601

TM02 0815 3601

### Dimensions and weights

Pump type	PN	Dimensions [mm]											Weights [kg]			Ship. vol.											
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2		H3	H4	D1	D2	D3	D4	D5	M	Net	Gross	
UPS 80-30 F 360	6	360	-	180	145	169	-	130	100	-	160	168	145	107	316	423	160	80	132	150	200	4x19	M16	38.0	39.9	0.055	
UPS 80-30 F 360	10	360	-	180	145	169	-	130	100	-	160	168	145	107	316	423	160	80	132	150	200	4x19	M16	38.0	39.9	0.055	
UPSD 80-30 F 360	6	360	173	53	-	169	470	240	230	120	240	-	-	107	316	423	-	-	80	132	150	200	4x19	M12	71.0	78.8	0.200
UPSD 80-30 F 360	10	360	173	53	-	169	470	240	230	120	240	-	-	107	316	423	-	-	80	132	150	200	4x19	M12	71.0	78.8	0.200

\*Weights of bronze versions are approx. 10 % higher.

## UPS 80-60 F 360, UPSD 80-60 F 360

### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1.2	1.5	2.75

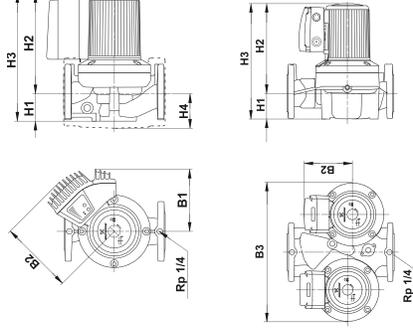
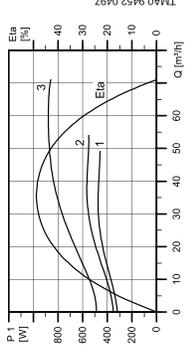
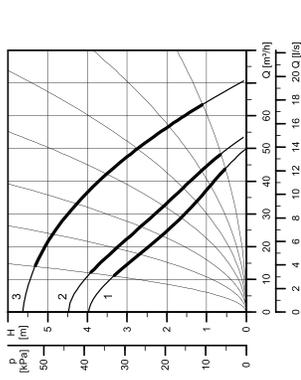
### Electrical data

	$P_{max}$ [W]	$P_{min}$ [W]	I1/I	Cos $\phi$
Speed 1	470	320	1.46	0.81
Speed 2	570	350	1.74	0.82
Speed 3	880	490	3.13	0.71
Speed 1	470	320	0.84	0.81
Speed 2	570	350	1.00	0.82
Speed 3	880	490	1.80	0.71

Single-head pumps are available with bronze housing, type B.

### Energy labelling

Pump type	Energy class
UPS 80-60 F 360	3 x 230 V
UPSD 80-60 F 360	3 x 400-415 V
	C
	D
	D



TM02 0697 3601

TM02 0815 3601

### Dimensions and weights

Pump type	PN	Dimensions [mm]											Weights [kg]			Ship. vol.											
		L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1	H2		H3	H4	D1	D2	D3	D4	D5	M	Net	Gross	
UPS 80-60 F 360	6	360	-	180	145	169	-	135	100	-	160	165	145	107	295	402	160	80	132	150	200	4x19	M16	37.3	39.2	0.055	
UPS 80-60 F 360	10	360	-	180	145	169	-	135	100	-	160	165	145	107	295	402	160	80	132	150	200	4x19	M16	37.0	39.0	0.055	
UPSD 80-60 F 360	6	360	173	53	-	169	490	250	240	120	240	-	-	107	294	401	-	-	80	132	150	200	4x19	M12	73.0	80.7	0.200
UPSD 80-60 F 360	10	360	173	53	-	169	490	250	240	120	240	-	-	107	294	401	-	-	80	132	150	200	4x19	M12	73.0	80.7	0.200

\*Weights of bronze versions are approx. 10 % higher.

### UPS 80-120 F 360, UPSD 80-120 F 360

#### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1,6	1,9	3,15

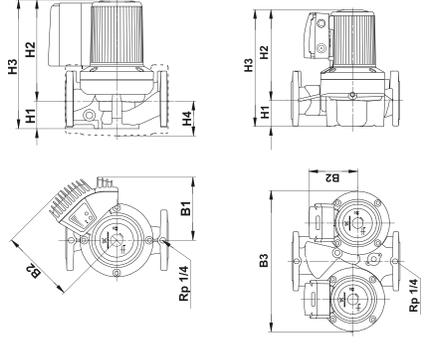
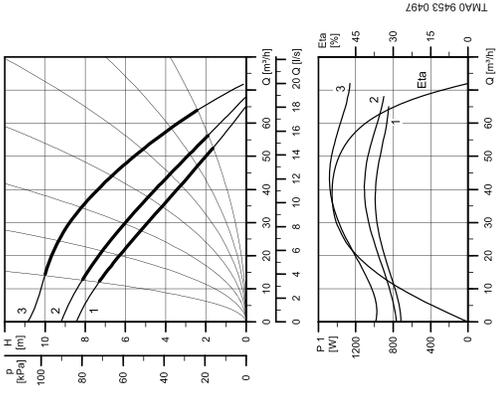
#### Electrical data

Speed	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	Cos $\phi$
<b>3 x 230 V</b>				
Speed 1	1000	710	2,87	0,87
Speed 2	1100	760	3,13	0,88
Speed 3	1500	960	4,78	0,79
<b>3 x 400-415 V</b>				
Speed 1	1000	710	1,65	0,87
Speed 2	1100	760	1,80	0,88
Speed 3	1500	960	2,75	0,79

Single-head pumps are available with bronze housing, type B.

#### Energy labelling

Pump type	Energy class
UPS 80-120 F 360	C
UPSD 80-120 F 360	C



TMA02 0697 3601

TMA02 0815 3601

#### Dimensions and weights

Pump type	Dimensions [mm]											Weights [kg]*			Ship. vol. [m <sup>3</sup> ]											
	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1		H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	
UPS 80-120 F 360	6	360	-	180	145	169	-	125	100	-	160	165	145	97	297	394	160	80	132	150	200	4x19	M16	36,7	38,6	0,055
UPS 80-120 F 360	10	450	-	180	145	169	-	125	100	-	160	165	145	97	297	394	160	80	132	160	200	8x19	M16	36,7	38,6	0,055
UPSD 80-120 F 360	6	360	173	53	-	169	460	235	225	120	240	-	-	97	294	391	-	80	132	150	200	4x19	M12	75,5	83,2	0,200
UPSD 80-120 F 360	10	450	173	53	-	169	460	235	225	120	240	-	-	97	294	391	-	80	132	160	200	8x19	M12	75,5	83,2	0,200

\*Weights of bronze versions are approx. 10 % higher.

### UPS 100-30 F 450, UPSD 100-30 F 450

#### Inlet pressure

$t_m$ [°C]	75	90	120
$H_{min}$ [bar]	1,05	1,35	2,6

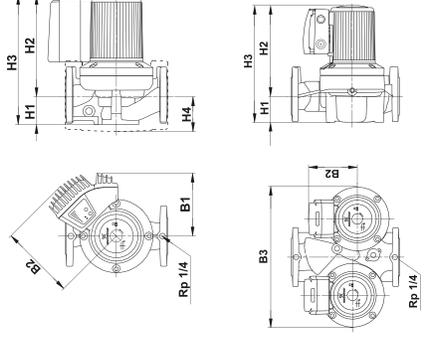
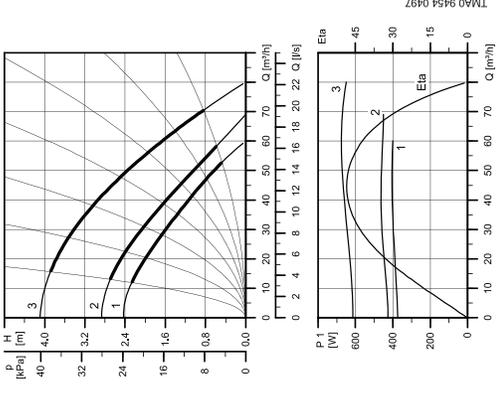
#### Electrical data

Speed	$P_{max}$ [W]	$P_{min}$ [W]	I1/I1	Cos $\phi$
<b>3 x 230 V</b>				
Speed 1	410	380	1,25	0,82
Speed 2	460	430	1,46	0,79
Speed 3	670	610	2,70	0,62
<b>3 x 400-415 V</b>				
Speed 1	410	380	0,72	0,82
Speed 2	460	430	0,84	0,79
Speed 3	670	610	1,55	0,62

Single-head pumps are available with bronze housing, type B.

#### Energy labelling

Pump type	Energy class
UPS 100-30 F 450	D
UPSD 100-30 F 450	D



TMA02 0697 3601

TMA02 0815 3601

#### Dimensions and weights

Pump type	Dimensions [mm]											Weights [kg]*			Ship. vol. [m <sup>3</sup> ]											
	PN	L1	L2	L3	B1	B2	B3	B4	B5	B6	B7	B8	B9	H1		H2	H3	H4	D1	D2	D3	D4	D5	M	Net Gross	
UPS 100-30 F 450	6	450	-	225	145	169	-	175	120	-	200	226	174	122	316	438	186	100	156	170	220	8x19	M16	46,5	49,0	0,087
UPS 100-30 F 450	10	450	-	225	145	169	-	175	120	-	200	226	174	122	316	438	186	100	156	180	220	8x19	M16	46,5	49,0	0,087
UPSD 100-30 F 450	6	450	221	83	-	169	595	280	315	140	280	-	-	122	316	438	-	100	156	170	220	8x19	M16	97,4	105,1	0,200
UPSD 100-30 F 450	10	450	221	83	-	169	595	280	315	140	280	-	-	122	316	438	-	100	156	180	220	8x19	M16	97,4	105,1	0,200

\*Weights of bronze versions are approx. 10 % higher.



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