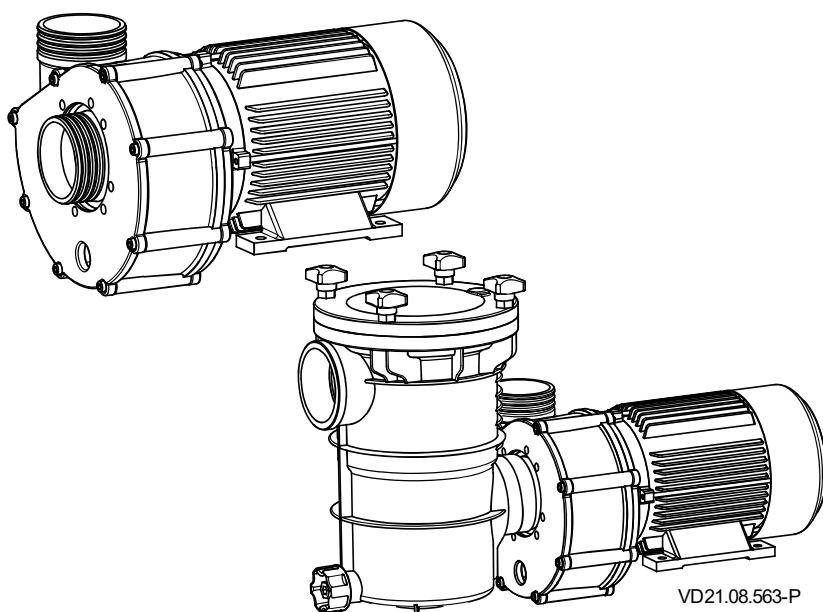


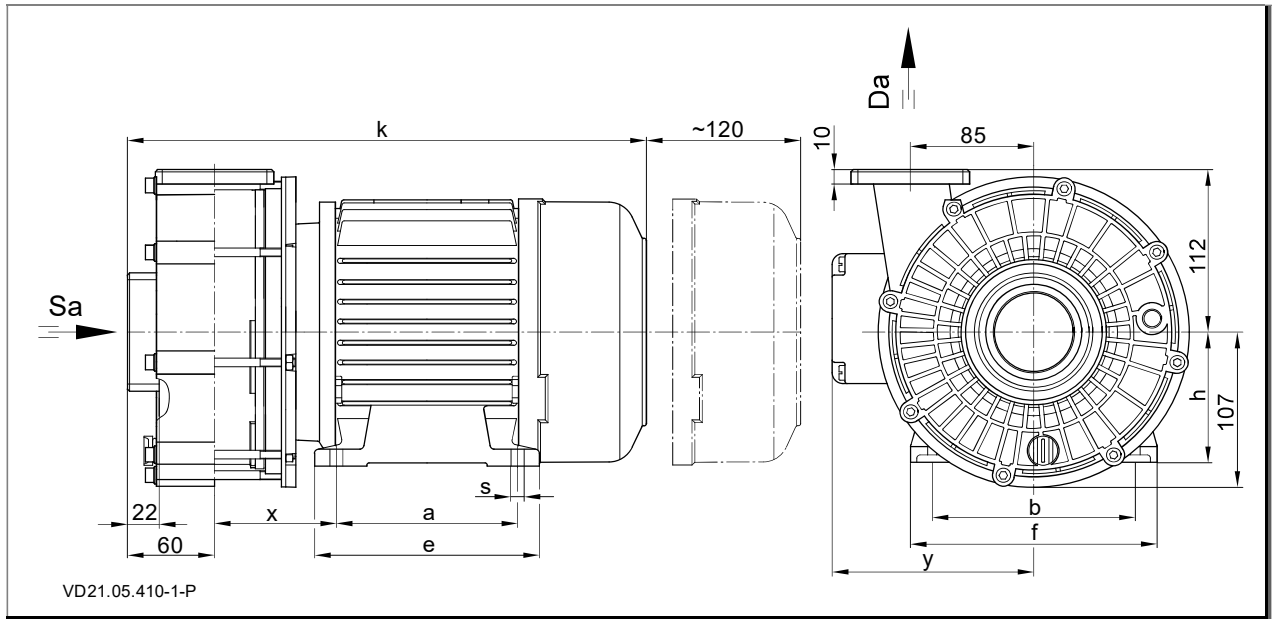
|    |                           |
|----|---------------------------|
| DE | Pumpendatenblatt          |
| EN | <b>Pump data sheet</b>    |
| FR | Fiche technique pompe     |
| NL | Pompgegevens              |
| IT | Documentazione pompa      |
| ES | Ficha técnica de la bomba |

**BADU® 21, BADU® 21-AK**  
**BADU® FA 21**

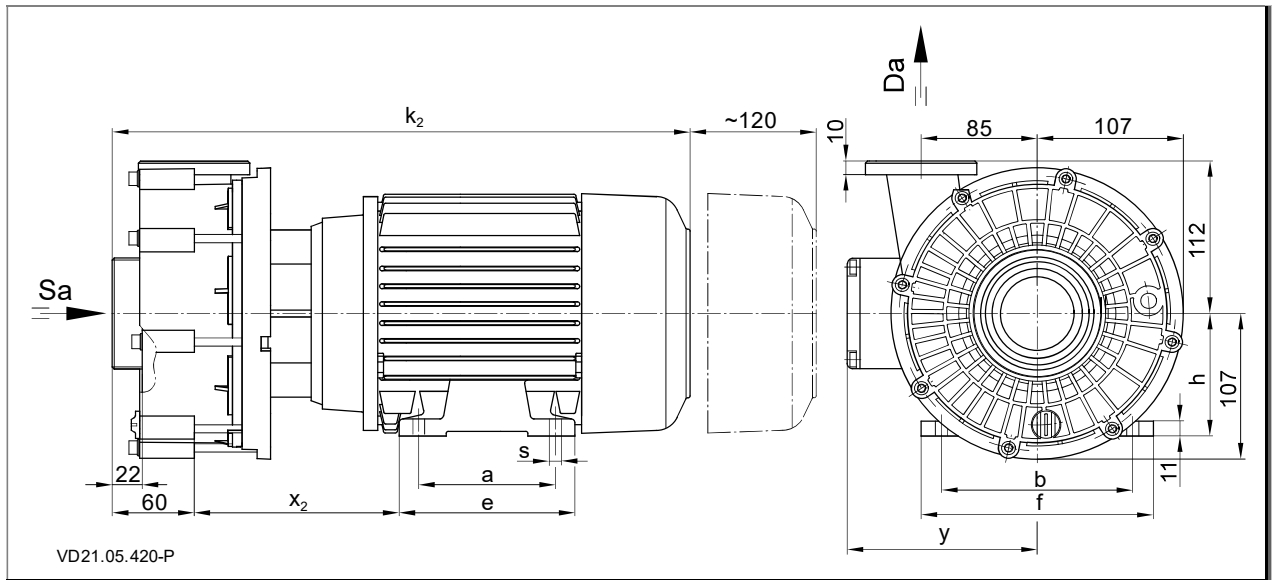


VD21.08.563-P

# **BADU 21-50, BADU 21-60**

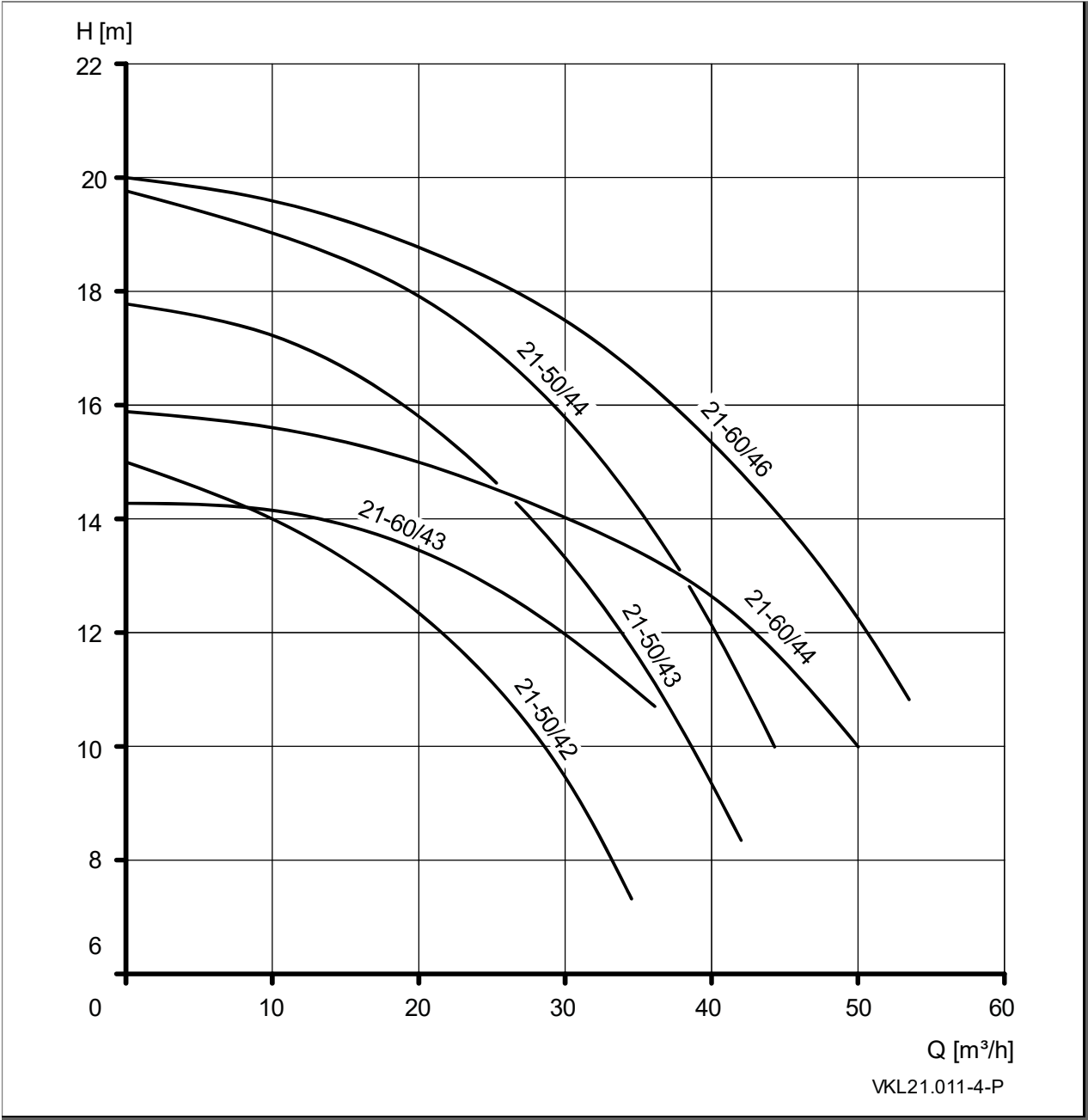


# **BADU 21-50-AK, BADU 21-60-AK**



|                     |    | a   | b   | e   | f   | h   | s  | x   | x <sub>2</sub> | y   | k   | k <sub>2</sub> |
|---------------------|----|-----|-----|-----|-----|-----|----|-----|----------------|-----|-----|----------------|
| BADU 21-50/42 G/-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 135            | 139 | 358 | 408            |
| BADU 21-50/42 G/-AK | 3~ | 100 | 125 | 125 | 16  | 80  | 9  | 94  | 144            | 125 | 333 | 383            |
| BADU 21-50/43 G/-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 135            | 139 | 358 | 408            |
| BADU 21-50/43 G/-AK | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 382 | 427            |
| BADU 21-50/44 G/-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 373 | 423            |
| BADU 21-50/44 G/-AK | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 407 | 457            |
| BADU 21-60/43 G/-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 135            | 139 | 358 | 408            |
| BADU 21-60/43 G/-AK | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 382 | 427            |
| BADU 21-60/44 G/-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 373 | 423            |
| BADU 21-60/44 G/-AK | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 407 | 457            |
| BADU 21-60/46 G/-AK | 1~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 154 | 427 | 477            |
| BADU 21-60/46 G/-AK | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 407 | 457            |

**BADU 21-50, BADU 21-60**  
**BADU 21-50-AK, BADU 21-60-AK**



| TD 50 Hz             | Sa [G] | Da [G] | d-Saug [mm] | d-Druck [mm] |
|----------------------|--------|--------|-------------|--------------|
| BADU 21-50/42 G /-AK | 2 ¾    | 2 ¾    | 90          | 75           |
| BADU 21-50/43 G /-AK | 2 ¾    | 2 ¾    | 90          | 75           |
| BADU 21-50/44 G /-AK | 2 ¾    | 2 ¾    | 90          | 75           |

#### 1~ 230 V

| TD 50 Hz             | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] | Lpa <sup>(1m)</sup> [dB(A)] | Lwa [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|----------------------|---------------------|---------------------|-------|-----------------------------|-------------|--------|-----------|---------|
| BADU 21-50/42 G /-AK | 1,63                | 1,10                | 7,20  | 67,2                        | 75          | 17,5   | 19,5      | o/o     |
| BADU 21-50/43 G /-AK | 2,27                | 1,60                | 10,0  | 66,7                        | 75          | 17,5   | 19,5      | o/o     |
| BADU 21-50/44 G /-AK | 2,90                | 2,20                | 13,0  | 70,9                        | 79          | 17,2   | 19,2      | o/o     |

#### 3~ 400/230 V

| TD 50 Hz             | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ 400/230 V | Lpa <sup>(1m)</sup> [dB(A)] | Lwa [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|----------------------|---------------------|---------------------|------------------------|-----------------------------|-------------|--------|-----------|---------|
| BADU 21-50/42 G /-AK | 1,33                | 1,10                | 2,40/4,15              | 65,7                        | 74          | 14,6   | 16,6      | o/o     |
| BADU 21-50/43 G /-AK | 1,90                | 1,60                | 3,30/5,70              | 70,7                        | 79          | 17,9   | 19,9      | o/o     |
| BADU 21-50/44 G /-AK | 2,55                | 2,20                | 4,60/8,00              | 72,4                        | 80          | 22,9   | 24,9      | o/o     |

| TD 50 Hz             | H <sub>max.</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI [bar max.] |
|----------------------|-----------------------|----|--------|--------------------|----|------|------------------------|--------|------------------|
| BADU 21-50/42 G /-AK | 15,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-50/43 G /-AK | 18,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-50/44 G /-AK | 20,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |

| TD 50 Hz             | Sa [G] | Da [G] | d-Saug<br>[mm] | d-Druck<br>[mm] |
|----------------------|--------|--------|----------------|-----------------|
| BADU 21-60/43 G /-AK | 2 ¾    | 2 ¾    | 90             | 75              |
| BADU 21-60/44 G /-AK | 2 ¾    | 2 ¾    | 90             | 75              |
| BADU 21-60/46 G /-AK | 2 ¾    | 2 ¾    | 90             | 75              |

#### 1~ 230 V

| TD 50 Hz             | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] | L <sub>pa</sub> <sup>(1m)</sup><br>[dB(A)] | L <sub>wa</sub><br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|----------------------|---------------------|---------------------|-------|--------------------------------------------|----------------------------|--------|-----------|---------|
| BADU 21-60/43 G /-AK | 2,27                | 1,60                | 10,0  | 67,2                                       | 75                         | 17,5   | 19,5      | o/o     |
| BADU 21-60/44 G /-AK | 2,90                | 2,20                | 13,0  | 67,6                                       | 76                         | 17,2   | 19,2      | o/o     |
| BADU 21-60/46 G /-AK | 3,90                | 3,00                | 17,0  | 77,6                                       | 85                         | 27,8   | 19,8      | o/o     |

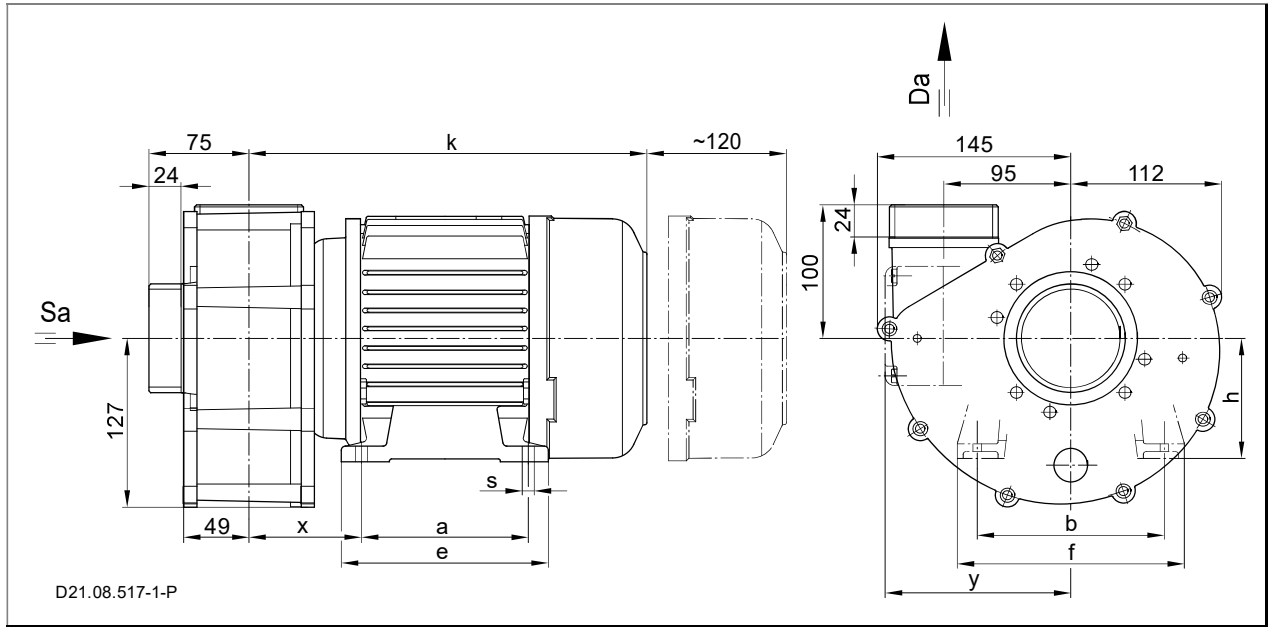
#### 3~ 400/230 V

| TD 50 Hz             | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ<br>400/230 V | L <sub>pa</sub> <sup>(1m)</sup><br>[dB(A)] | L <sub>wa</sub><br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|----------------------|---------------------|---------------------|---------------------------|--------------------------------------------|----------------------------|--------|-----------|---------|
| BADU 21-60/43 G /-AK | 1,90                | 1,60                | 3,30/5,70                 | 68,7                                       | 77                         | 17,9   | 19,9      | o/o     |
| BADU 21-60/44 G /-AK | 2,55                | 2,20                | 4,60/8,00                 | 70,9                                       | 79                         | 22,9   | 24,9      | o/o     |
| BADU 21-60/46 G /-AK | 3,45                | 3,00                | 6,20/10,7                 | 78,5                                       | 87                         | 25,9   | 27,9      | o/o     |

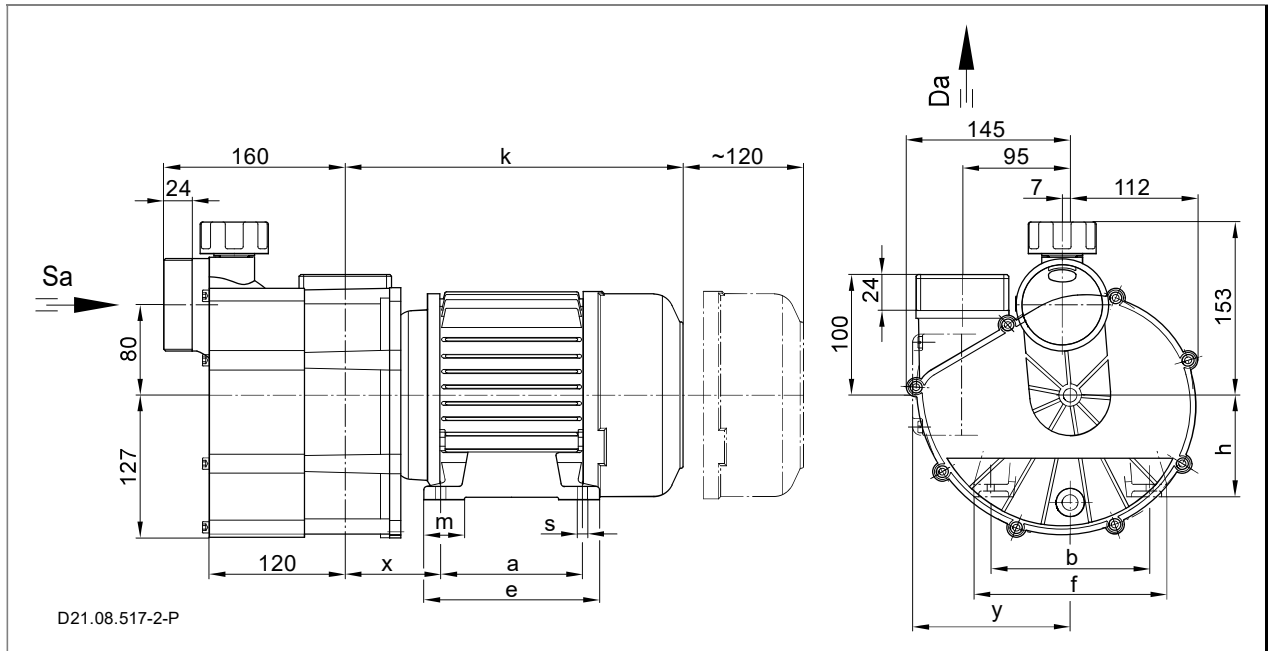
| TD 50 Hz             | H <sub>max.</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI<br>[bar max.] |
|----------------------|-----------------------|----|--------|--------------------|----|------|------------------------|--------|---------------------|
| BADU 21-60/43 G /-AK | 14,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU 21-60/44 G /-AK | 16,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU 21-60/46 G /-AK | 20,5                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |

**BADU 21-80**

Normalsaugend | **Non-self-priming** | À amorçage normal | Normaalzuigende | Aspirazione normale | Aspiración normal | Normaalisti imevä | Normalsugande | Vanlig pumpe | Normalsugende | Нормальное всасывание | Normál szívó | S běžným Sáním | Normalnie zasysająca | Normal emişli

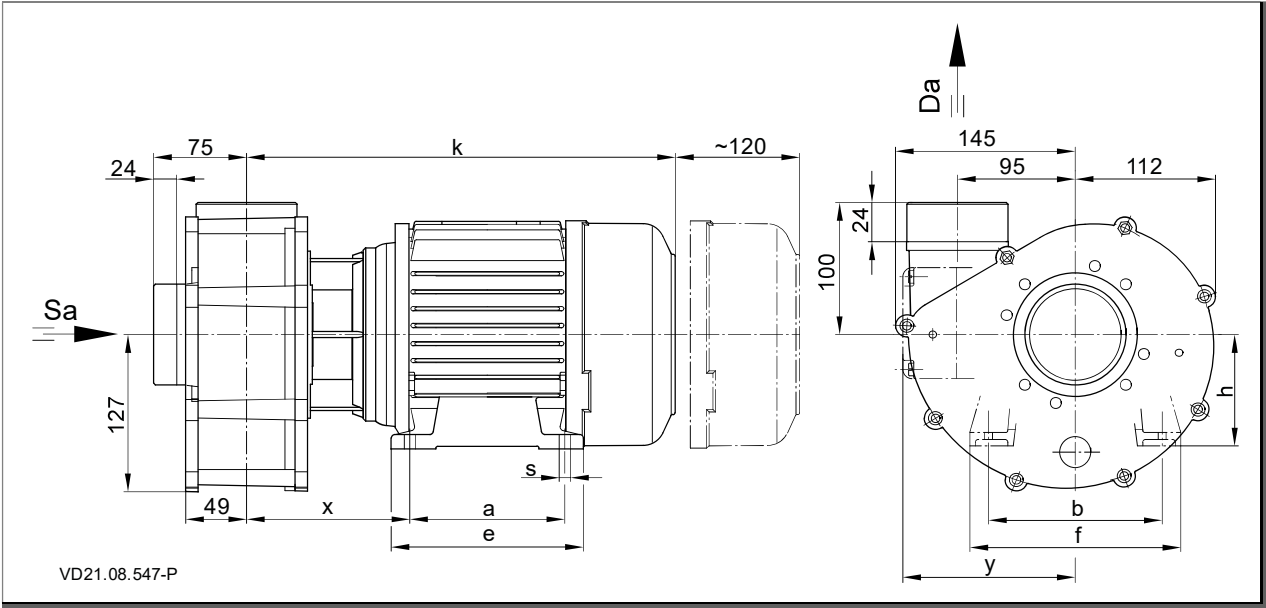
**BADU 21-80**

Selbstansaugend | **Self-priming** | Auto-amorçant | Zelfaanzuigend | Autoadescante | Auto-aspirante | Self-priming | Auto-amorçant | Zelfaanzuigend | Autoadescante | Auto-aspirante | Самовсасывание | Önszívó | Samonasávaci | Samozasysająca | Kendinden emişli



|                  |    | a   | b   | e   | f   | h   | s  | x   | y   | k   |
|------------------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| BADU 21-80/31 RG | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 139 | 298 |
| BADU 21-80/31 RG | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 322 |
| BADU 21-80/32 RG | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 139 | 313 |
| BADU 21-80/32 RG | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 347 |
| BADU 21-80/32 G  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 347 |
| BADU 21-80/33 G  | 1~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 154 | 367 |
| BADU 21-80/33 G  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 347 |
| BADU 21-80/34 G  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 155 | 364 |

**BADU 21-80-AK**



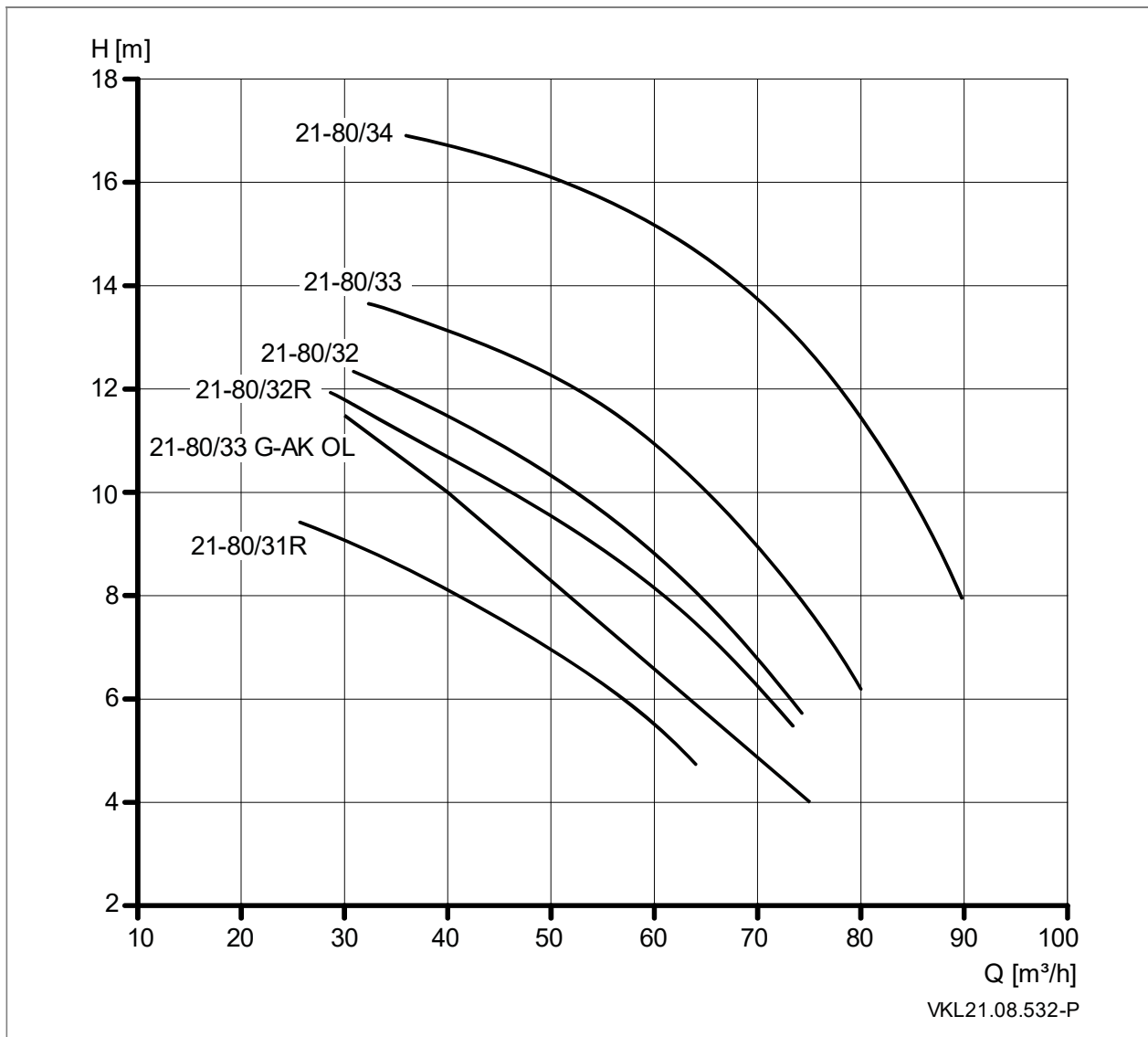
|                       |    | a   | b   | e   | f   | h   | s  | x   | y   | k   |
|-----------------------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| BADU 21-80/31 RG-AK   | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 135 | 139 | 348 |
| BADU 21-80/31 RG-AK   | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 150 | 139 | 372 |
| BADU 21-80/32 RG-AK   | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 150 | 139 | 363 |
| BADU 21-80/32 RG-AK   | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 155 | 397 |
| BADU 21-80/32 G-AK    | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 155 | 397 |
| BADU 21-80/33 G-AK    | 1~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 154 | 417 |
| BADU 21-80/33 G-AK    | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 155 | 397 |
| BADU 21-80/33 G-AK OL | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 155 | 397 |
| BADU 21-80/34 G-AK    | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 157 | 155 | 414 |

**BADU 21-80**

Normalsaugend | **Non-self-priming** | À amorçage normal | Normaalzuigende | Aspirazione normale | Aspiración normal | Normaalisti imevä | Normalsugande | Vanlig pumpe | Normalsugende | Нормальное всасывание | Normál szívó | S běžným Sáním | Normalnie zasysająca | Normal emişli

**BADU 21-80**

Selbstansaugend | **Self-priming** | Auto-amorçant | Zelfaanzuigend | Autoadescante | Auto-aspirante | Self-priming | Auto-amorçant | Zelfaanzuigend | Autoadescante | Auto-aspirante | Самовсасывание | Önszívó | Samonasávaci | Samozasysająca | Kendinden emişli

**BADU 21-80-AK**



| TD 50 Hz              | Sa [G] | Da [G] | d-Saug [mm] | d-Druck [mm] |
|-----------------------|--------|--------|-------------|--------------|
| BADU 21-80/31 RG /-AK | 2 ¾    | 2 ¾    | 110         | 110          |
| BADU 21-80/32 G /-AK  | 2 ¾    | 2 ¾    | 110         | 110          |
| BADU 21-80/32 RG /-AK | 2 ¾    | 2 ¾    | 110         | 110          |

#### 1~ 230 V

| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] | Lpa (1m) [dB(A)] | Lwa [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|-------|------------------|-------------|--------|-----------|---------|
| BADU 21-80/31 RG /-AK | 2,27                | 1,60                | 10,0  | 68,9             | 77,0        | 19,0   | 21,0      | o/o     |
| BADU 21-80/32 G /-AK  | -                   | -                   | -     | -                | -           | -      | -         | -       |
| BADU 21-80/32 RG /-AK | 2,90                | 2,20                | 13,0  | 71,8             | 80,0        | 19,0   | 21,0      | o/o     |

#### 3~ 400/230 V

| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ 400/230 V | Lpa (1m) [dB(A)] | Lwa [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|------------------------|------------------|-------------|--------|-----------|---------|
| BADU 21-80/31 RG /-AK | 1,90                | 1,60                | 3,30/5,70              | 70,4             | 78          | 21,0   | 23,0      | o/o     |
| BADU 21-80/32 G /-AK  | 2,55                | 2,60                | 5,50/9,50              | 74,4             | 82          | 26,0   | 28,0      | o/o     |
| BADU 21-80/32 RG /-AK | 3,00                | 2,20                | 4,60/8,00              | 73,7             | 82          | 26,0   | 28,0      | o/o     |

#### 3~ 690/400 V

| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ 690/400 V | Lpa (1m) [dB(A)] | Lwa [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|------------------------|------------------|-------------|--------|-----------|---------|
| BADU 21-80/31 RG /-AK | -                   | -                   | -                      | -                | -           | -      | -         | -       |
| BADU 21-80/32 G /-AK  | -                   | -                   | -                      | -                | -           | -      | -         | -       |
| BADU 21-80/32 RG /-AK | -                   | -                   | -                      | -                | -           | -      | -         | -       |

| TD 50 Hz              | H <sub>max.</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI [bar max.] |
|-----------------------|-----------------------|----|--------|--------------------|----|------|------------------------|--------|------------------|
| BADU 21-80/31 RG /-AK | 9,50                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-80/32 G /-AK  | 12,2                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-80/32 RG /-AK | 11,8                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |

| TD 50 Hz              | Sa [G] | Da [G] | d-Saug<br>[mm] | d-Druck<br>[mm] |
|-----------------------|--------|--------|----------------|-----------------|
| BADU 21-80/33 G /-AK  | 2 ¾    | 2 ¾    | 140            | 110             |
| BADU 21-80/33 G-AK OL | 2 ¾    | 2 ¾    | 140            | 110             |
| BADU 21-80/34 G /-AK  | 2 ¾    | ¾      | 140            | 110             |

### 1~ 230 V

| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A]  | Lpa <sup>(1m)</sup><br>[dB(A)] | Lwa<br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|--------|--------------------------------|----------------|--------|-----------|---------|
| BADU 21-80/33 G /-AK  | 3,90                | 3,00                | 17,0** | 75,2                           | 83,0           | 31,0   | 33,0      | o/o     |
| BADU 21-80/33 G-AK OL | -                   | -                   | -      | -                              | -              | -      | -         | -       |
| BADU 21-80/34 G /-AK  | -                   | -                   | -      | -                              | -              | -      | -         | -       |

### 3~ 400/230 V

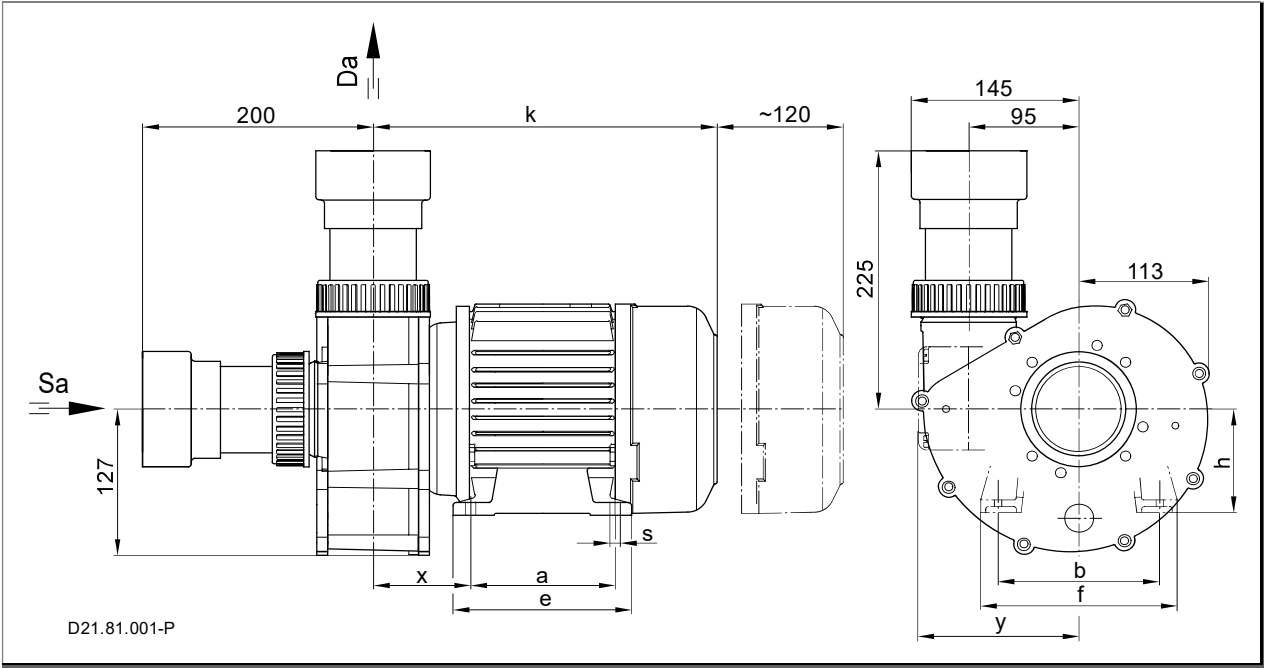
| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ<br>400/230 V | Lpa <sup>(1m)</sup><br>[dB(A)] | Lwa<br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|---------------------------|--------------------------------|----------------|--------|-----------|---------|
| BADU 21-80/33 G /-AK  | 3,45                | 3,00                | 6,20/10,7                 | 75,9                           | 84             | 30,0   | 32,0      | o/o     |
| BADU 21-80/33 G-AK OL | 3,45                | 3,00                | 6,20/10,7                 | 75,9                           | 84             | 30,0   | 32,0      | o/o     |
| BADU 21-80/34 G /-AK  | -                   | -                   | -                         | -                              | -              | -      | -         | o/o     |

### 3~ 690/400 V

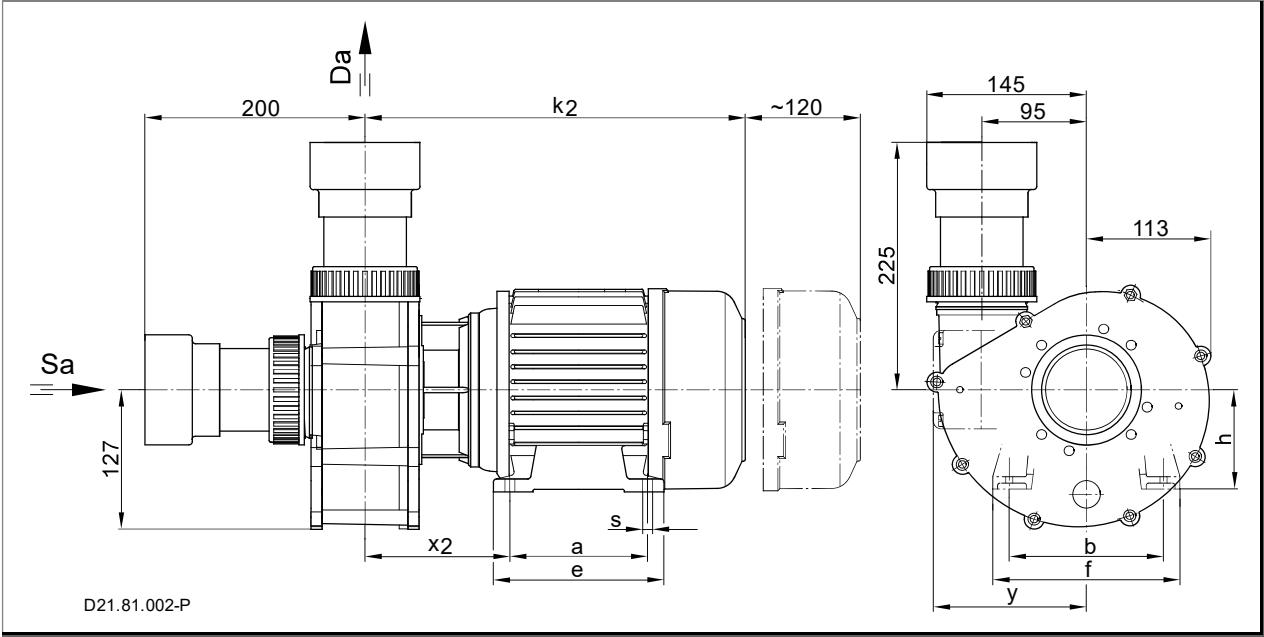
| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ<br>690/400 V | Lpa <sup>(1m)</sup><br>[dB(A)] | Lwa<br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|---------------------------|--------------------------------|----------------|--------|-----------|---------|
| BADU 21-80/33 G /-AK  | -                   | -                   | -                         | -                              | -              | -      | -         | -       |
| BADU 21-80/33 G-AK OL | -                   | -                   | -                         | -                              | -              | -      | -         | -       |
| BADU 21-80/34 G /-AK  | 4,55                | 4,00                | 4,60/7,90                 | 78,7                           | 87             | 31,0   | 33,0      | o/o     |

| TD 50 Hz              | H <sub>max.</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI<br>[bar max.] |
|-----------------------|-----------------------|----|--------|--------------------|----|------|------------------------|--------|---------------------|
| BADU 21-80/33 G /-AK  | 13,5                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU 21-80/33 G-AK OL | 15,5                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU 21-80/34 G /-AK  | 17,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5                 |

**BADU 21-81**

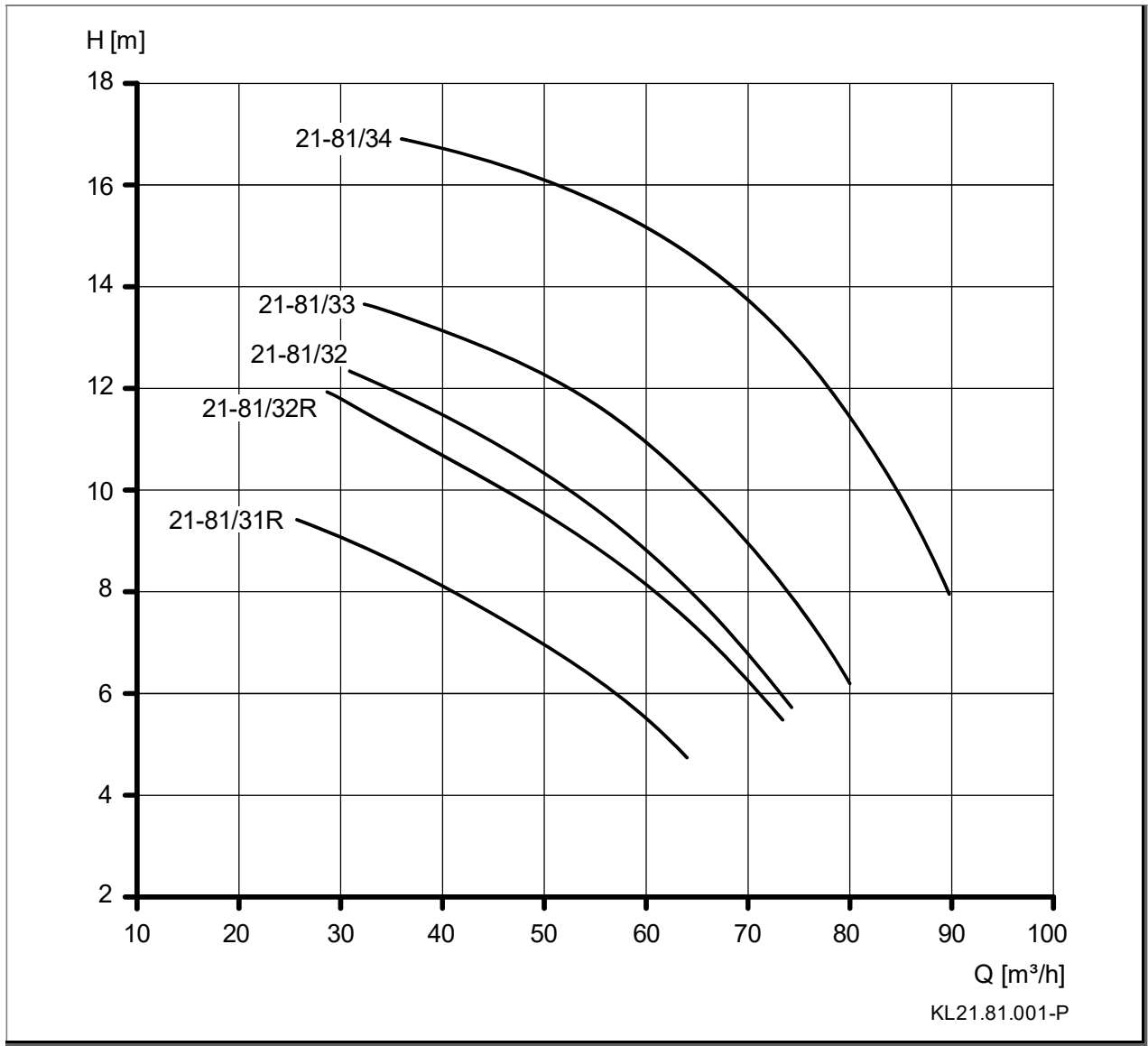


**BADU 21-81-AK**



|                       |    | a   | b   | e   | f   | h   | s  | x   | x <sub>2</sub> | y   | k   | k <sub>2</sub> |
|-----------------------|----|-----|-----|-----|-----|-----|----|-----|----------------|-----|-----|----------------|
| BADU 21-81/31R G /-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 85  | 135            | 139 | 298 | 348            |
| BADU 21-81/31R G /-AK | 3~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 322 | 372            |
| BADU 21-81/32R G /-AK | 1~ | 125 | 140 | 155 | 170 | 90  | 9  | 100 | 150            | 139 | 313 | 363            |
| BADU 21-81/32R G /-AK | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 347 | 397            |
| BADU 21-81/32 G /-AK  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 347 | 397            |
| BADU 21-81/33 G /-AK  | 1~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 154 | 367 | 417            |
| BADU 21-81/33 G /-AK  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 347 | 397            |
| BADU 21-81/34 G /-AK  | 3~ | 140 | 160 | 176 | 195 | 100 | 12 | 107 | 157            | 155 | 364 | 414            |

**BADU 21-81**  
**BADU 21-81-AK**



| TD 50 Hz              | Sa [mm] | Da [mm] | d-Saug [mm] | d-Druck [mm] |
|-----------------------|---------|---------|-------------|--------------|
| BADU 21-81/31 RG /-AK | 90      | 90      | 110         | 110          |
| BADU 21-81/32 G /-AK  | 90      | 90      | 110         | 110          |
| BADU 21-81/32 RG /-AK | 90      | 90      | 110         | 110          |
| BADU 21-81/33 G /-AK  | 90      | 90      | 140         | 110          |
| BADU 21-81/34 G /-AK  | 90      | 90      | 140         | 110          |

### 1~ 230 V

| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] | L <sub>pa</sub> (1m) [dB(A)] | L <sub>wa</sub> [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|-------|------------------------------|-------------------------|--------|-----------|---------|
| BADU 21-81/31 RG /-AK | 2,27                | 1,60                | 10,0  | 68,9                         | 77                      | 19,0   | 21,0      | o/o     |
| BADU 21-81/32 G /-AK  | -                   | -                   | -     | -                            | -                       | -      | -         | o/o     |
| BADU 21-81/32 RG /-AK | 2,90                | 2,20                | 13,0  | 71,8                         | 80                      | 19,0   | 21,0      | o/o     |
| BADU 21-81/33 G /-AK  | 3,90                | 3,00                | 17,0* | 75,2                         | 83                      | 31,0   | 33,0      | o/o     |
| BADU 21-81/34 G /-AK  | -                   | -                   | -     | -                            | -                       | -      | -         | -       |

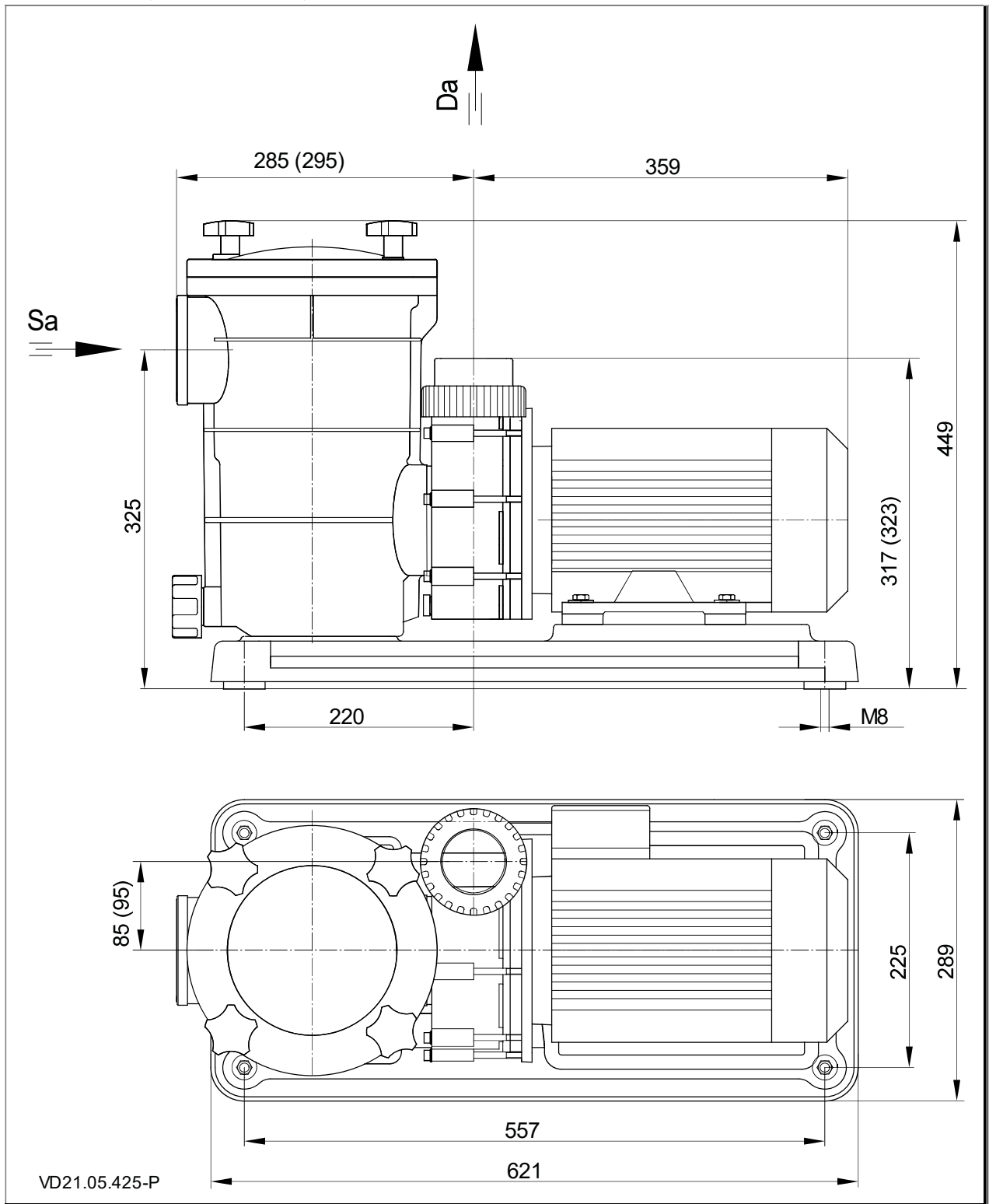
### 3~ 400/230 V

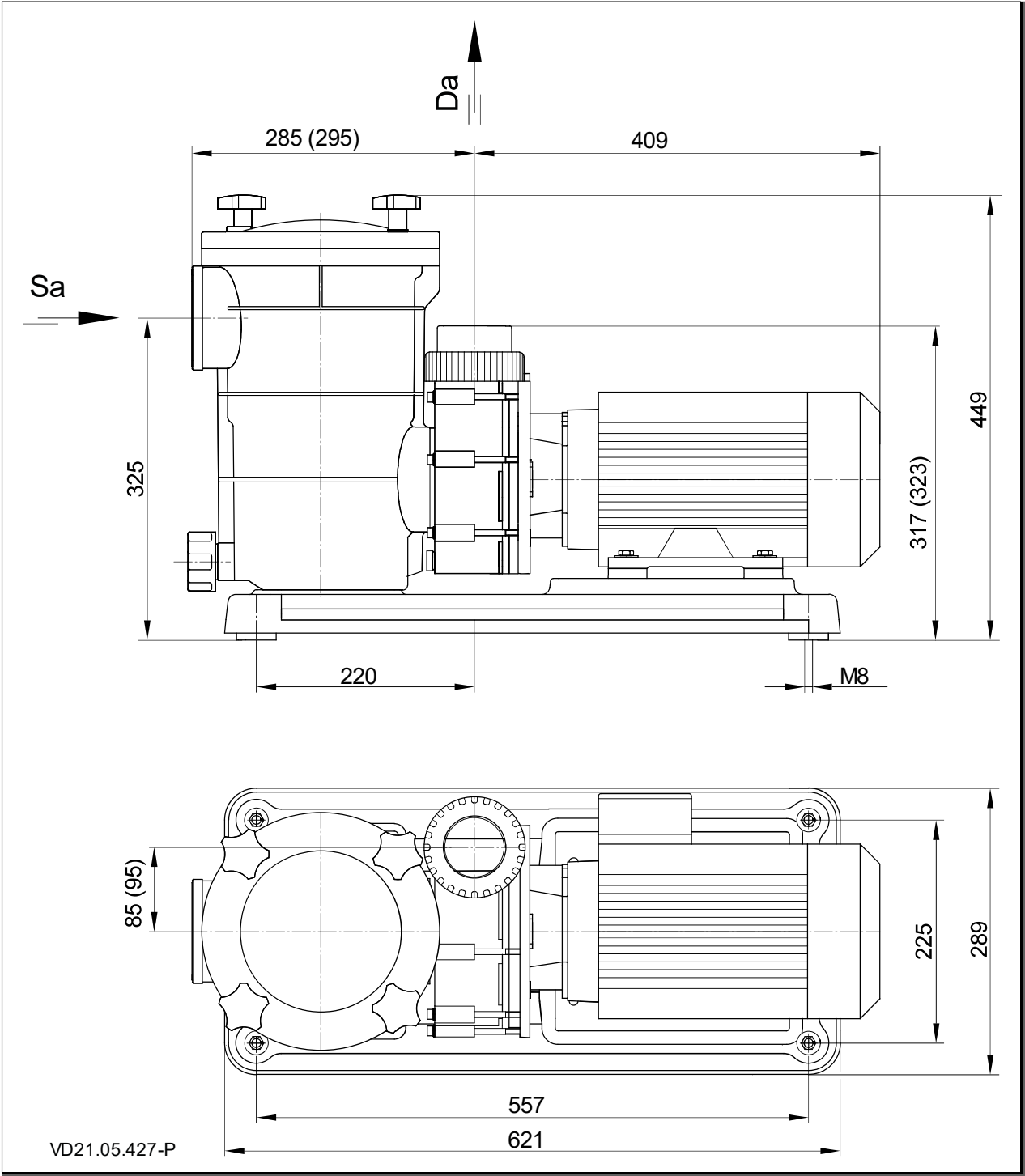
| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ 400/230 V | L <sub>pa</sub> (1m) [dB(A)] | L <sub>wa</sub> [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|------------------------|------------------------------|-------------------------|--------|-----------|---------|
| BADU 21-81/31 RG /-AK | 1,90                | 1,60                | 3,30/5,70              | 70,4                         | 78                      | 21,0   | 23,0      | o/o     |
| BADU 21-81/32 G /-AK  | 2,55                | 2,60                | 5,50/9,50              | 74,4                         | 82                      | 26,0   | 28,0      | o/o     |
| BADU 21-81/32 RG /-AK | 3,00                | 2,20                | 4,60/8,00              | 73,7                         | 82                      | 26,0   | 28,0      | o/o     |
| BADU 21-81/33 G /-AK  | 3,45                | 3,00                | 6,20/10,7              | 75,9                         | 84                      | 30,0   | 32,0      | o/o     |
| BADU 21-81/34 G /-AK  | -                   | -                   | -                      | -                            | -                       | -      | -         | -       |

### 3~ 690/400 V

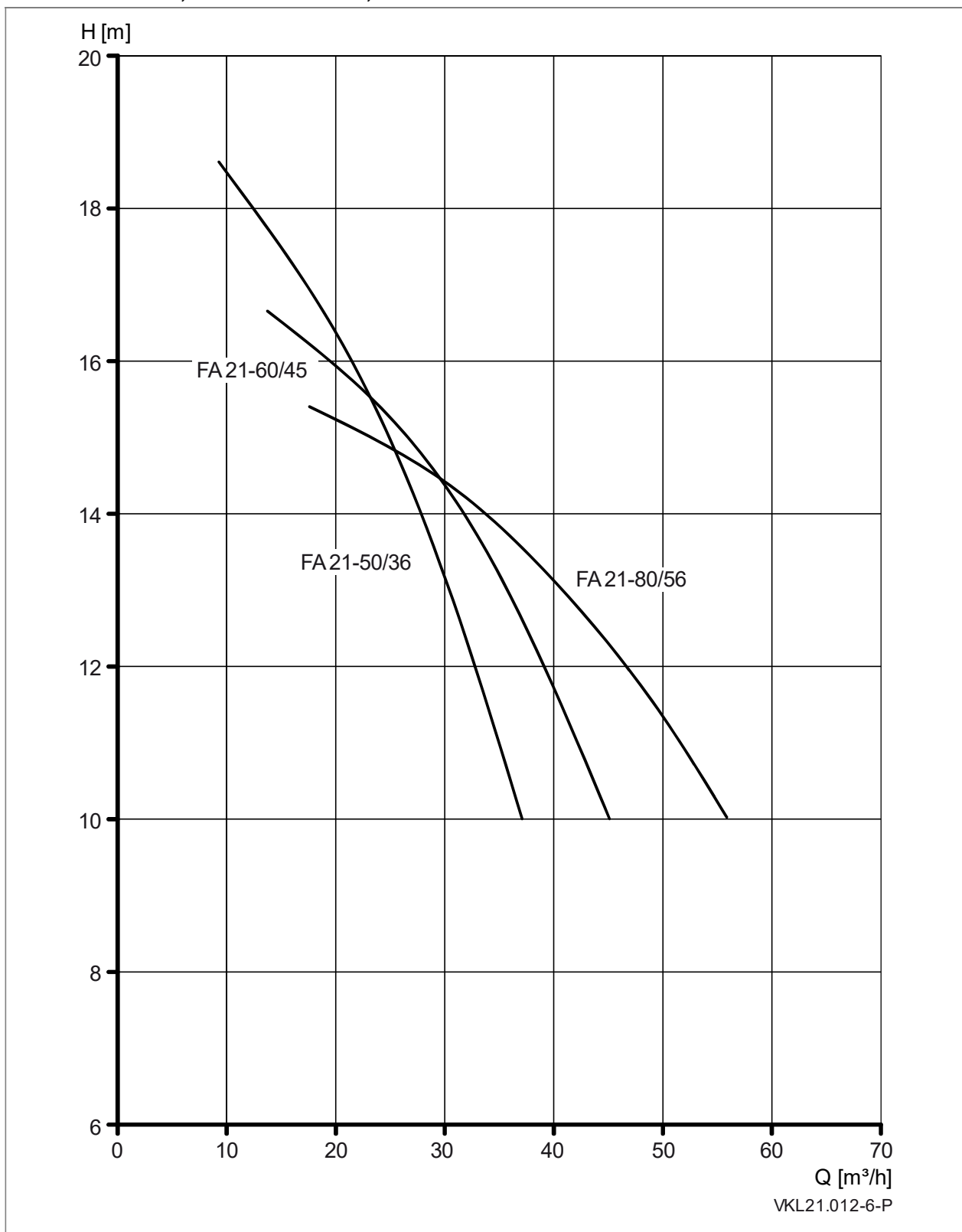
| TD 50 Hz              | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ 690/400 V | L <sub>pa</sub> (1m) [dB(A)] | L <sub>wa</sub> [dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|-----------------------|---------------------|---------------------|------------------------|------------------------------|-------------------------|--------|-----------|---------|
| BADU 21-81/31 RG /-AK | -                   | -                   | -                      | -                            | -                       | -      | -         | -       |
| BADU 21-81/32 G /-AK  | -                   | -                   | -                      | -                            | -                       | -      | -         | -       |
| BADU 21-81/32 RG /-AK | -                   | -                   | -                      | -                            | -                       | -      | -         | -       |
| BADU 21-81/33 G /-AK  | -                   | -                   | -                      | -                            | -                       | -      | -         | -       |
| BADU 21-81/34 G /-AK  | 4,55                | 4,00                | 4,60/7,90              | 78,7                         | 87                      | 31,0   | 33,0      | O/O     |

| TD 50 Hz              | H <sub>max.</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI [bar max.] |
|-----------------------|-----------------------|----|--------|--------------------|----|------|------------------------|--------|------------------|
| BADU 21-81/31 RG /-AK | 9,50                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-81/32 G /-AK  | 12,2                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-81/32 RG /-AK | 11,8                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-81/33 G /-AK  | 13,5                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |
| BADU 21-81/34 G /-AK  | 17,0                  | o  | -      | 3                  | 55 | F    | 2850                   | 40(60) | 2,5              |





**BADU FA 21-50, BADU FA 21-60, BADU FA 21-80**  
**BADU FA 21-50-AK, BADU FA 21-60-AK, BADU FA 21-80-AK**





| TD 50 Hz             | Sa [G] | Da [G] | d-Saug<br>[mm] | d-Druck<br>[mm] |
|----------------------|--------|--------|----------------|-----------------|
| BADU FA 21-50/36/-AK | 3      | 63     | 90             | 90              |
| BADU FA 21-60/45/-AK | 3      | 63     | 90             | 90              |
| BADU FA 21-80/56/-AK | 3      | 75/90  | 110            | 110             |

### 3~ 400/230 V

| TD 50 Hz             | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | I [A] 3~ Y/Δ<br>400/230 V | L <sub>pa</sub> <sup>(1m)</sup><br>[dB(A)] | L <sub>wa</sub><br>[dB(A)] | m [kg] | m-AK [kg] | WSK/PTC |
|----------------------|---------------------|---------------------|---------------------------|--------------------------------------------|----------------------------|--------|-----------|---------|
| BADU FA 21-50/36/-AK | 2,55                | 2,20                | 4,60/8,00                 | 73,6                                       | 82                         | 28,5   | 30,5      | o/o     |
| BADU FA 21-60/45/-AK | 3,00                | 2,60                | 5,50/9,50                 | -                                          | -                          | 23,0   | 25,5      | o/o     |
| BADU FA 21-80/56/-AK | 3,45                | 3,00                | 6,20/10,7                 | -                                          | -                          | 31,5   | 33,5      | o/o     |

| TD 50 Hz             | H <sub>max</sub> [m] | SP | Hs [m] | H <sub>z</sub> [m] | IP | W-KI | n [min <sup>-1</sup> ] | T [°C] | P-GHI<br>[bar max.] |
|----------------------|----------------------|----|--------|--------------------|----|------|------------------------|--------|---------------------|
| BADU FA 21-50/36/-AK | 19,0                 | o  | -      | -                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU FA 21-60/45/-AK | 17,0                 | o  | -      | -                  | 55 | F    | 2850                   | 40(60) | 2,5                 |
| BADU FA 21-80/56/-AK | 15,5                 | o  | -      | -                  | 55 | F    | 2850                   | 40(60) | 2,5                 |

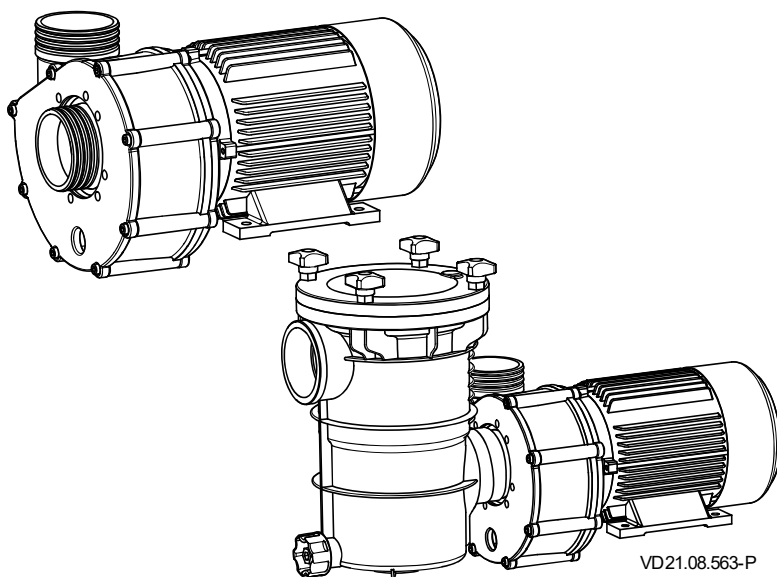
## EN Pump data sheet

### Related Documentation

The additional information compiled in this data sheet must be kept together with the original operation manual for "Non-self-priming and self-priming pumps with/without plastic lanterns" and must be accessible to the relevant personnel at all times.

**BADU® 21, BADU® 21-AK**

**BADU® FA 21**



| Glossary                        |                                                                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TD                              | Technical data                                                                                                                                                                                                     |
| Sa                              | Inlet connection                                                                                                                                                                                                   |
| Da                              | Outlet connection                                                                                                                                                                                                  |
| d-Saug                          | Recommended diameter of the suction line up to 5 m                                                                                                                                                                 |
| d-Druck                         | Recommended diameter of the pressure line up to 5 m                                                                                                                                                                |
| max. L                          | Maximum length of the pump                                                                                                                                                                                         |
| D                               | Density                                                                                                                                                                                                            |
| P <sub>1</sub>                  | Power input                                                                                                                                                                                                        |
| P <sub>2</sub>                  | Power output                                                                                                                                                                                                       |
| I                               | Rated current                                                                                                                                                                                                      |
| L <sub>pa</sub> (1 m)           | Sound pressure level at 1 m measured in accordance with DIN 45635                                                                                                                                                  |
| L <sub>wa</sub>                 | Acoustic capacity                                                                                                                                                                                                  |
| m                               | Weight                                                                                                                                                                                                             |
| WSK                             | Built-in or external overload switch                                                                                                                                                                               |
| PTC                             | PTC resistor                                                                                                                                                                                                       |
| H <sub>max.</sub>               | Total dynamic head                                                                                                                                                                                                 |
| SP                              | Self-priming                                                                                                                                                                                                       |
| H <sub>s</sub> ; H <sub>z</sub> | Geodetic head between water level and pump                                                                                                                                                                         |
| H <sub>s</sub>                  | Total suction head                                                                                                                                                                                                 |
| H <sub>z</sub>                  | Total dynamic head with flooded suction                                                                                                                                                                            |
| IP                              | Type of motor enclosure                                                                                                                                                                                            |
| W-KI                            | Class of insulation                                                                                                                                                                                                |
| n                               | Motor speed                                                                                                                                                                                                        |
| P-GHI                           | 2.5 bar max. casing pressure/system pressure                                                                                                                                                                       |
| T                               | Water temperature                                                                                                                                                                                                  |
| ●                               | Yes                                                                                                                                                                                                                |
| ○                               | No                                                                                                                                                                                                                 |
| T/°C                            | Clarification of the max. water temperature 40 °C (60 °C): 40 °C = the max. water temperature allowed according to the GS approval. (60 °C) = the pump is designed to withstand a max. water temperature of 60 °C. |
| 1~/3~                           | Suitable for continuous operation at<br>1~ 220 - 240 V ± 5%<br>3~ Y/Δ 380 - 420 V/220 - 240 V ± 5%<br>3~ Y/Δ 660 - 725 V/380 - 420 V ± 5%<br>For standard voltage in accordance with DIN IEC 60038; DIN EN 60034   |

For special voltages and/or the 60 Hz version, the performance data can be taken from the pump name plate. If the values in these instructions are different to the values on the type plate, the values on the type plate must be used. With some special types or motors there is no GS approval – GS approval on pump name plate where applicable.

#### **BADU 21-50, BADU 21-60**

##### **BADU 21-50-AK, BADU 21-60-AK**

Also available with G 2½/2 or Ø 52/52 mm (BADU 21-50) or Ø 72/52 mm (BADU 21-60) socket connections.

For the BADU 21-50/42 G, 3~ the terminal box is positioned on top.

#### **BADU 21-80**

##### **BADU 21-80-AK**

Pumps are also available with 82 mm socket connections.

Startup current is approx. 82 A

#### **BADU 21-81**

##### **BADU 21-81-AK**

Startup current is approx. 82 A