



**Franklin Electric**

# VS 4" SERIES 50 HZ

SUBMERSIBLE BOREHOLE PUMPS

**NEW**





|  |           |
|--|-----------|
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NOTES: Franklin Electric reserves the right to amend specification without prior notice.  
 For the most up-to-date product information, visit [franklinwater.eu](http://franklinwater.eu).



## VS4" Submersible borehole pumps

- Designed to operate efficiently with encapsulated and oil-filled submersible motors / NEMA Standard motor adapter

\* For more information consult the product catalog of Submersible motors

- The hydraulic design enhances overall efficiency thus reducing energy consumption and making the pumping systems more cost effective
- Suitable for chemically and mechanically non aggressive liquids
- Flow: up to 24 m<sup>3</sup>/h at 50 Hz
- Head: up to 350 m at 50 Hz

### MOTOR OPTIONS



- Cooling shroud (available on request)
- Different cable lengths for motors
- Sacrificial anode for motors
- Control panel and inverter

✓ **Compact and reliable**

✓ **Suited to operate in horizontal or vertical position**

**Stainless-steel built-in check valve**

to protect the pump against water hammer risk

**Floating impellers**

to grant a better performance and longer life for the pump against abrasion (VS1-2-3-4-6-8)

**Impellers & bearing housing**

POM (VS 1-2-3-4-6-8)  
Polycarbonate (VS 10-15)

**Name plate**

laser marked

**Screw-mounted coupling**



Water Distribution



Irrigation  
Sprinklers  
Water treatment plants



Turf and landscape  
Greenhouses and nurseries



Fire-fighting equipment



Pressure boosting



Residential and farm wells  
and drainage



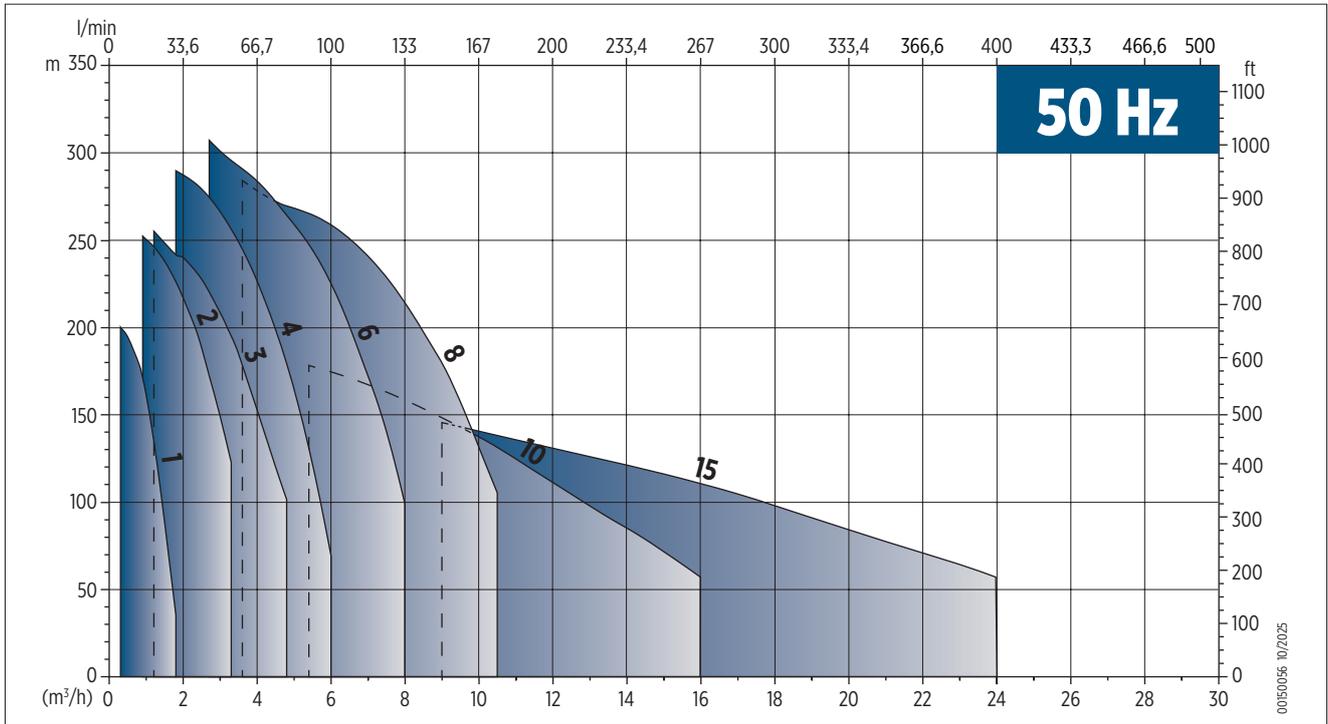
Water supply to and from  
tanks, reservoir and wells



Fountains

# VS 4" Submersible borehole pumps

## FAMILY CURVES



## PRODUCT IDENTIFICATION CODE

VS 2 / 12 - Y - R14 - M4 - 50 D P

- VS: Pump model
- 2: Flow [m<sup>3</sup>/h] / Model
- 12: Stages
- Y: Construction material versions: Stainless Steel + Noryl® or Polycarbonate
- R14: Type and dimension of threaded connection: "R14" (1 1/4 BSP), "R20" (2" BSP)
- M4: Motor bracket dimension: "M4" (4)
- 50: Frequency: "50" (50 Hz)
- D: DOL or Star/Delta: "D" (DOL, 1 cable guard)
- P: Rubber part material: "P" (NBR)

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# VS 4" Submersible borehole pumps

## GENERAL FEATURES

| Model                              | 1   | 2        | 3       | 4      | 6        | 8        | 10         | 15       |
|------------------------------------|---|----------|---------|--------|----------|----------|------------|----------|
| Number of stages                   | 6-26  | 5-36     | 5-38    | 4-44   | 7-56     | 5-56     | 5-32       | 8-25     |
| Impeller Type                      | Radial  |          |         |        |          |          | Semi axial |          |
| Maximum liquid temperature         | 40°C  |          |         |        |          |          |            |          |
| Application range [m³/h]:          | 0,3-1,6   | 0,9-3,3  | 1,2-4,8 | 1,8-6  | 2,7-8    | 3,6-10,5 | 5,4-16     | 9,0-24,0 |
| Motor power range [kW]             | 0,37-1,1  | 0,37-2,2 | 0,37-3  | 0,37-4 | 0,75-5,5 | 0,75-7,5 | 1,1-7,5    | 2,2-7,5  |
| Max head at minimum flow [m]       | 200   | 255      | 253     | 290    | 306      | 283      | 178        | 128      |
| Shutoff [m]                        | 209   | 256      | 268     | 310    | 351      | 339      | 194        | 154      |
| Hydraulic connections (Dimensions) | 1"1/4 BSP   |          |         |        | 2" BSP   |          |            |          |
| Maximum allowable amount of sand   | 100 g/m³  |          |         |        |          |          |            |          |
| Rotation                           | Counter clockwise when looking into the discharge |          |         |        |          |          |            |          |
| Operation                          | Vertical/Horizontal                               |          |         |        |          |          |            |          |

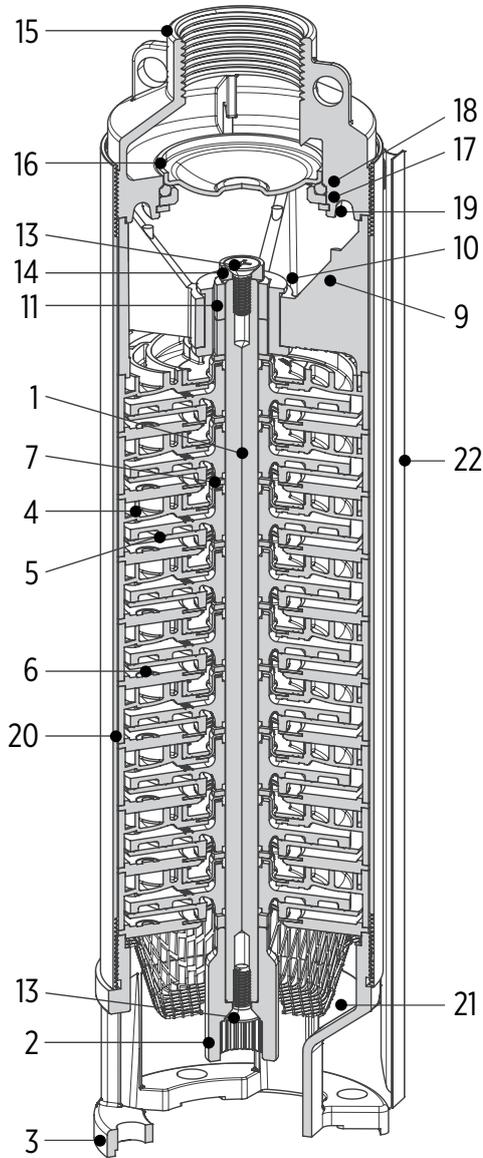
## PUMP RATING PLATE

|   |                               |
|---|-------------------------------|
|  <b>Franklin Electric</b>  |                               |
| <b>SUBMERSIBLE PUMP</b>   |                               |
| MODEL<br><b>A</b>   | Serial Num.<br><b>B</b>       |
| Stage<br><b>C</b>   | <b>D</b> Hz                   |
| Q min <b>E</b> m³/h   | H max <b>F</b> m              |
| Q max <b>G</b> m³/h   | H min <b>H</b> m              |
| Rpm <b>I</b> r/min  | Dia. <b>J</b>                 |
| Weight <b>K</b> kg  | Power <b>L</b> kW <b>M</b> Hp |
| Manu.Da. <b>N</b>   | Outlet <b>O</b>               |
| Imported by<br>Franklin Electric S.r.l.<br>Via Asolo, 7 36031 Dueville (VI) - ITALY P.IVA IT 00558130241  |                               |
| MEI ≥ <b>P</b>  |                               |
|    |                               |

- a. Model
- b. Serial number
- c. Number of stages
- d. Frequency [Hz]
- e. Min. flow rate
- f. Max. head
- g. Max. flow rate
- h. Min. head
- i. rpm
- j. Pump diameter (4")
- k. Weight [kg]
- l. Power [kW]
- m. Power [HP]
- n. Year of production
- o. Discharge connection (1" 1/4 or 2")
- p. Minimum Efficiency Index (MEI) (If complying)

# VS 4" Submersible borehole pumps

VS1



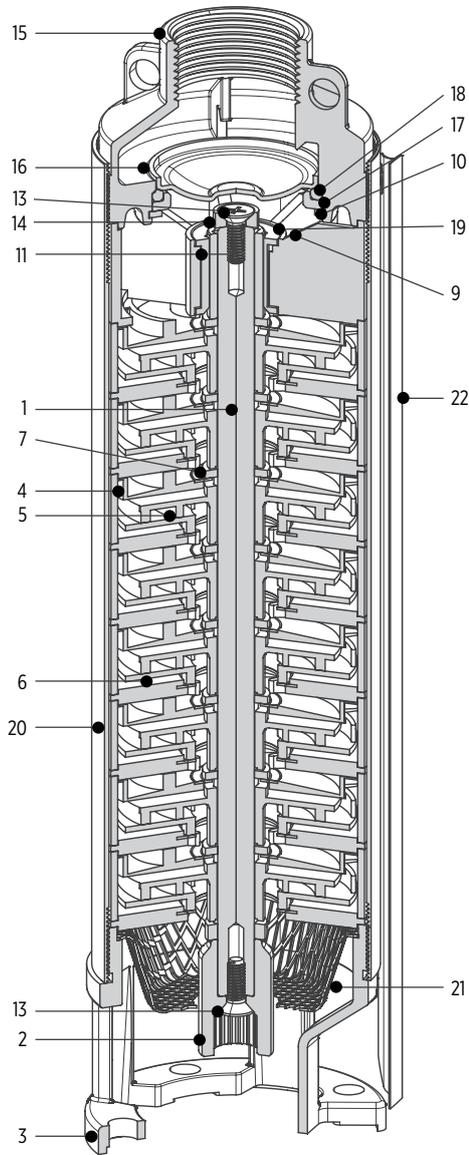
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| Ref. No. | Parts description **  | Material                  | Reference standard |        |
|----------|-----------------------|---------------------------|--------------------|--------|
|          |                       |                           | ANSI               | EN     |
| 1        | Shaft                 | Stainless Steel           | AISI 304           | 1.4301 |
| 2        | Coupling              | Stainless Steel           | AISI 304           | 1.4301 |
| 3        | Motor support         | Stainless Steel           | AISI 304           | 1.4301 |
| 4        | Diffuser              | Noryl® * (VS 1)           | -                  | -      |
| 5        | Impeller              | POM (VS 1-2-3-4-6-8)      | -                  | -      |
| 6        | Diffuser Cover        | Noryl® * (VS 1)           | -                  | -      |
| 7        | Sealing gasket        | Phenolic composite (VS 1) | -                  | -      |
| 9        | Bearing housing       | Noryl® * (VS 1)           | -                  | -      |
| 10       | Bearing bushing       | Rubber                    | -                  | -      |
| 11       | Bearing               | Ceramic (VS 1)            | -                  | -      |
| 13       | Screw                 | Stainless Steel           | AISI 316           | 1.4401 |
| 14       | Washer                | Stainless Steel           | AISI 316           | 1.4401 |
| 15       | Discharge             | Stainless Steel           | AISI 304           | 1.4301 |
| 16       | Check valve disc      | Stainless Steel           | AISI 304           | 1.4301 |
| 17       | Check valve ring      | Stainless Steel           | AISI 304           | 1.4301 |
| 18       | Check valve O-ring    | Rubber                    | -                  | -      |
| 19       | Check valve snap ring | Stainless Steel           | AISI 420           | 1.4021 |
| 20       | Shell                 | Stainless Steel           | AISI 304           | 1.4301 |
| 21       | Strainer              | Stainless Steel           | AISI 304           | 1.4301 |
| 22       | Cable guard           | Stainless Steel           | AISI 304           | 1.4301 |

\* Noryl® is a Registered Trademark of G.E.

# Parts and material

VS 2-3-4-6-8

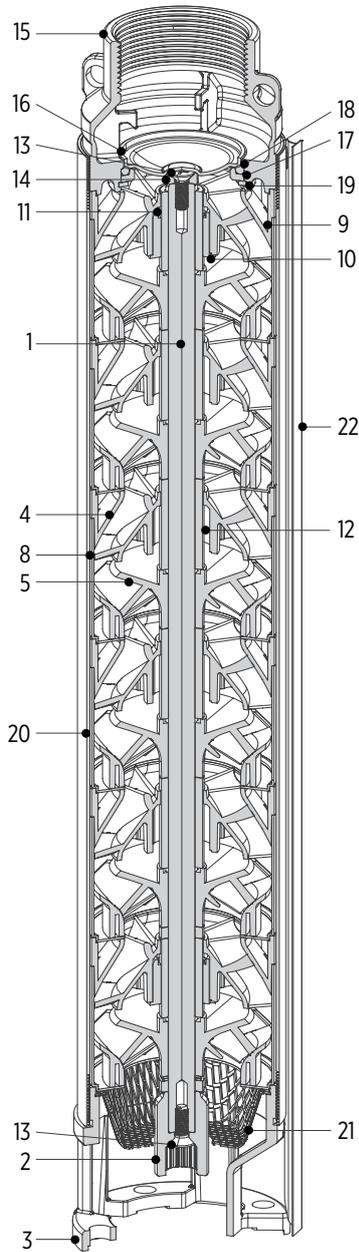


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| Ref. No. | Parts description **  | Material                             | Reference standard |        |
|----------|-----------------------|--------------------------------------|--------------------|--------|
|          |                       |                                      | ANSI               | EN     |
| 1        | Shaft                 | Stainless Steel                      | AISI 304           | 1.4301 |
| 2        | Coupling              | Stainless Steel                      | AISI 304           | 1.4301 |
| 3        | Motor support         | Stainless Steel                      | AISI 304           | 1.4301 |
| 4        | Diffuser              | Polycarbonate (VS 2-3-4-6-8)         | -                  | -      |
| 5        | Impeller              | POM (VS 1-2-3-4-6-8)                 | -                  | -      |
| 6        | Diffuser Cover        | Polycarbonate (VS 2-3-4-6-8)         | -                  | -      |
| 7        | Sealing gasket        | Rubber (VS 2-3-4-6-8)                | -                  | -      |
| 9        | Bearing housing       | Polycarbonate (VS 2-3-4-6-8-10-15)   | -                  | -      |
| 10       | Bearing bushing       | Rubber                               | -                  | -      |
| 11       | Bearing               | Stainless Steel (VS 2-3-4-6-8-10-15) | AISI 316           | 1.4401 |
| 13       | Screw                 | Stainless Steel                      | AISI 316           | 1.4401 |
| 14       | Washer                | Stainless Steel                      | AISI 316           | 1.4401 |
| 15       | Discharge             | Stainless Steel                      | AISI 304           | 1.4301 |
| 16       | Check valve disc      | Stainless Steel                      | AISI 304           | 1.4301 |
| 17       | Check valve ring      | Stainless Steel                      | AISI 304           | 1.4301 |
| 18       | Check valve O-ring    | Rubber                               | -                  | -      |
| 19       | Check valve snap ring | Stainless Steel                      | AISI 420           | 1.4021 |
| 20       | Shell                 | Stainless Steel                      | AISI 304           | 1.4301 |
| 21       | Strainer              | Stainless Steel                      | AISI 304           | 1.4301 |
| 22       | Cable guard           | Stainless Steel                      | AISI 304           | 1.4301 |

# Parts and material

## VS 10-15



00131591/0025

| Ref. No. | Ref. No.              | Material                             | Reference standard |        |
|----------|-----------------------|--------------------------------------|--------------------|--------|
|          |                       |                                      | ANSI               | EN     |
| 1        | Shaft                 | Stainless Steel                      | AISI 304           | 1.4301 |
| 2        | Coupling              | Stainless Steel                      | AISI 304           | 1.4301 |
| 3        | Motor support         | Stainless Steel                      | AISI 304           | 1.4301 |
| 4        | Diffuser              | Noryl® * (VS 10-15)                  | -                  | -      |
| 5        | Impeller              | Polycarbonate (VS 10-15)             | -                  | -      |
| 8        | Body                  | Stainless Steel                      | AISI 304           | 1.4301 |
| 9        | Bearing housing       | Polycarbonate (VS 2-3-4-6-8-10-15)   | -                  | -      |
| 10       | Bearing bushing       | Rubber                               | -                  | -      |
| 11       | Bearing               | Stainless Steel (VS 2-3-4-6-8-10-15) | AISI 316           | 1.4401 |
| 12       | Spacer                | Polycarbonate                        | -                  | -      |
| 13       | Screw                 | Stainless Steel                      | AISI 316           | 1.4401 |
| 14       | Washer                | Stainless Steel                      | AISI 316           | 1.4401 |
| 15       | Discharge             | Stainless Steel                      | AISI 304           | 1.4301 |
| 16       | Check valve disc      | Stainless Steel                      | AISI 304           | 1.4301 |
| 17       | Check valve ring      | Stainless Steel                      | AISI 304           | 1.4301 |
| 18       | Check valve O-ring    | Rubber                               | -                  | -      |
| 19       | Check valve snap ring | Stainless Steel                      | AISI 420           | 1.4021 |
| 20       | Shell                 | Stainless Steel                      | AISI 304           | 1.4301 |
| 21       | Strainer              | Stainless Steel                      | AISI 304           | 1.4301 |
| 22       | Cable guard           | Stainless Steel                      | AISI 304           | 1.4301 |

\* Noryl® is a Registered Trademark of G.E.

# Hydraulic performance 2850 rpm - 50 Hz

## VS 1

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |      |     |      |     |     |      |     |
|----------------------|-------------|------|---|-----|-----|-----|-----|------|-----|------|-----|-----|------|-----|
|                      |             |      | m <sup>3</sup> /h 0                       | 0,3 | 0,4 | 0,5 | 0,6 | 0,7  | 0,9 | 1    | 1,2 | 1,5 | 1,6  | 1,8 |
|                      | [kW]        | [HP] | l/min 0                                   | 5   | 6,7 | 8,4 | 10  | 11,7 | 15  | 16,8 | 20  | 25  | 26,8 | 30  |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |      |     |      |     |     |      |     |
| VS1/06-Y-R14-M4-50DP | 0,37        | 0,5  | 49  | 45  | 44  | 43  | 42  | 41   | 37  | 35   | 29  | 19  | 15   | 7   |
| VS1/09-Y-R14-M4-50DP | 0,37        | 0,5  | 73  | 68  | 67  | 66  | 64  | 62   | 57  | 54   | 45  | 29  | 23   | 11  |
| VS1/13-Y-R14-M4-50DP | 0,55        | 0,75 | 105                                       | 99  | 98  | 96  | 94  | 91   | 84  | 79   | 66  | 43  | 34   | 17  |
| VS1/17-Y-R14-M4-50DP | 0,75        | 1    | 137                                       | 130 | 128 | 126 | 123 | 120  | 110 | 104  | 87  | 56  | 45   | 22  |
| VS1/26-Y-R14-M4-50DP | 1,1         | 1,5  | 209                                       | 200 | 197 | 194 | 190 | 185  | 170 | 160  | 135 | 87  | 69   | 34  |

Application range

## VS 2

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |      |     |     |     |     |
|----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
|                      |             |      | m <sup>3</sup> /h 0                       | 0,9 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 2,6  | 2,8 | 3   | 3,3 | 3,5 |
|                      | [kW]        | [HP] | l/min 0                                   | 15  | 20  | 25  | 30  | 35  | 40  | 43,6 | 47  | 50  | 55  | 59  |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |      |     |     |     |     |
| VS2/05-Y-R14-M4-50DP | 0,37        | 0,5  | 36  | 34  | 33  | 32  | 31  | 29  | 26  | 24   | 22  | 20  | 17  | 14  |
| VS2/06-Y-R14-M4-50DP | 0,37        | 0,5  | 43  | 41  | 40  | 39  | 37  | 35  | 32  | 30   | 27  | 24  | 20  | 17  |
| VS2/09-Y-R14-M4-50DP | 0,55        | 0,75 | 65  | 63  | 61  | 59  | 56  | 53  | 49  | 46   | 42  | 37  | 30  | 25  |
| VS2/12-Y-R14-M4-50DP | 0,75        | 1    | 86  | 84  | 82  | 79  | 75  | 71  | 65  | 61   | 56  | 50  | 40  | 34  |
| VS2/18-Y-R14-M4-50DP | 1,1         | 1,5  | 129                                       | 126 | 123 | 119 | 114 | 107 | 98  | 91   | 83  | 75  | 62  | 54  |
| VS2/25-Y-R14-M4-50DP | 1,5         | 2    | 177                                       | 174 | 169 | 163 | 155 | 145 | 133 | 123  | 113 | 102 | 84  | 73  |
| VS2/36-Y-R14-M4-50DP | 2,2         | 3    | 256                                       | 255 | 246 | 237 | 226 | 212 | 194 | 180  | 165 | 149 | 122 | 104 |

Application range

## VS 3

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |     |     |     |     |     |
|----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                      |             |      | m <sup>3</sup> /h 0                       | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 2,8 | 3   | 3,3 | 3,6 | 4,2 | 4,8 |
|                      | [kW]        | [HP] | l/min 0                                   | 20  | 25  | 30  | 35  | 40  | 47  | 50  | 55  | 60  | 70  | 80  |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |     |     |     |     |     |
| VS3/05-Y-R14-M4-50DP | 0,37        | 0,5  | 30  | 28  | 27  | 27  | 26  | 25  | 23  | 22  | 21  | 20  | 16  | 12  |
| VS3/07-Y-R14-M4-50DP | 0,55        | 0,75 | 52  | 47  | 47  | 46  | 44  | 43  | 41  | 39  | 37  | 34  | 27  | 19  |
| VS3/10-Y-R14-M4-50DP | 0,75        | 1    | 74  | 67  | 66  | 65  | 63  | 61  | 58  | 56  | 52  | 48  | 38  | 26  |
| VS3/14-Y-R14-M4-50DP | 1,1         | 1,5  | 102                                       | 94  | 92  | 90  | 88  | 85  | 81  | 78  | 73  | 67  | 53  | 37  |
| VS3/20-Y-R14-M4-50DP | 1,5         | 2    | 145                                       | 134 | 132 | 128 | 125 | 121 | 115 | 111 | 104 | 96  | 76  | 52  |
| VS3/28-Y-R14-M4-50DP | 2,2         | 3    | 200                                       | 187 | 184 | 180 | 175 | 169 | 160 | 154 | 144 | 133 | 105 | 74  |
| VS3/38-Y-R14-M4-50DP | 3           | 4    | 268                                       | 253 | 249 | 244 | 238 | 230 | 217 | 208 | 195 | 179 | 141 | 101 |

Application range

# Hydraulic performance 2850 rpm - 50 Hz

## VS 4

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |      |     |     |     |     |
|----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
|                      |             |      | m <sup>3</sup> /h 0                       | 1,8 | 2,5 | 2,7 | 3   | 3,3 | 3,6 | 4    | 4,2 | 4,8 | 5,5 | 6   |
|                      | [kW]        | [HP] | l/min 0                                   | 30  | 42  | 45  | 50  | 55  | 60  | 66,7 | 70  | 80  | 92  | 100 |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |      |     |     |     |     |
| VS4/04-Y-R14-M4-50DP | 0,37        | 0,5  | 30  | 27  | 26  | 25  | 25  | 24  | 23  | 21   | 20  | 17  | 12  | 6   |
| VS4/07-Y-R14-M4-50DP | 0,55        | 0,75 | 51  | 46  | 45  | 44  | 43  | 41  | 39  | 36   | 35  | 29  | 19  | 11  |
| VS4/09-Y-R14-M4-50DP | 0,75        | 1    | 65  | 60  | 57  | 56  | 55  | 53  | 50  | 47   | 44  | 37  | 25  | 14  |
| VS4/13-Y-R14-M4-50DP | 1,1         | 1,5  | 92  | 85  | 82  | 80  | 78  | 75  | 71  | 66   | 63  | 52  | 35  | 20  |
| VS4/18-Y-R14-M4-50DP | 1,5         | 2    | 128                                       | 119 | 114 | 112 | 109 | 105 | 100 | 92   | 88  | 73  | 49  | 27  |
| VS4/26-Y-R14-M4-50DP | 2,2         | 3    | 183                                       | 171 | 165 | 162 | 157 | 151 | 144 | 133  | 127 | 105 | 71  | 39  |
| VS4/34-Y-R14-M4-50DP | 3           | 4    | 240                                       | 225 | 216 | 213 | 206 | 199 | 190 | 176  | 168 | 138 | 92  | 52  |
| VS4/42-Y-R14-M4-50DP | 3,7         | 5    | 295                                       | 277 | 266 | 262 | 254 | 245 | 234 | 216  | 206 | 170 | 115 | 65  |
| VS4/44-Y-R14-M4-50DP | 4           | 5,5  | 310                                       | 290 | 279 | 274 | 266 | 256 | 245 | 226  | 216 | 178 | 121 | 68  |

Application range

## VS 6

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |       |     |     |     |     |
|----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|
|                      |             |      | m <sup>3</sup> /h 0                       | 2,7 | 3,4 | 4,2 | 4,8 | 5,5 | 6   | 6,5   | 7   | 7,2 | 7,5 | 8   |
|                      | [kW]        | [HP] | l/min 0                                   | 45  | 57  | 70  | 80  | 92  | 100 | 108,4 | 117 | 120 | 125 | 133 |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |       |     |     |     |     |
| VS6/07-Y-R20-M4-50DP | 0,75        | 1    | 43  | 37  | 36  | 35  | 33  | 30  | 28  | 25    | 22  | 20  | 17  | 11  |
| VS6/11-Y-R20-M4-50DP | 1,1         | 1,5  | 69  | 59  | 56  | 54  | 51  | 46  | 43  | 38    | 33  | 31  | 27  | 19  |
| VS6/15-Y-R20-M4-50DP | 1,5         | 2    | 94  | 80  | 76  | 73  | 68  | 63  | 58  | 52    | 45  | 42  | 38  | 28  |
| VS6/22-Y-R20-M4-50DP | 2,2         | 3    | 138                                       | 118 | 113 | 109 | 102 | 93  | 86  | 78    | 68  | 64  | 57  | 41  |
| VS6/30-Y-R20-M4-50DP | 3           | 4    | 186                                       | 160 | 153 | 148 | 139 | 127 | 118 | 106   | 92  | 87  | 77  | 55  |
| VS6/38-Y-R20-M4-50DP | 3,7         | 5    | 235                                       | 204 | 195 | 188 | 176 | 162 | 149 | 134   | 116 | 109 | 96  | 69  |
| VS6/42-Y-R20-M4-50DP | 4           | 5,5  | 261                                       | 227 | 217 | 209 | 196 | 180 | 166 | 148   | 129 | 120 | 106 | 75  |
| VS6/56-Y-R20-M4-50DP | 5,5         | 7,5  | 351                                       | 306 | 294 | 284 | 265 | 243 | 224 | 201   | 173 | 160 | 140 | 99  |

Application range

## VS 8

| Pump model           | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |     |     |     |     |      |
|----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                      |             |      | m <sup>3</sup> /h 0                       | 3,6 | 4,5 | 5,4 | 6   | 7   | 7,5 | 8   | 8,4 | 9   | 10  | 10,5 |
|                      | [kW]        | [HP] | l/min 0                                   | 60  | 75  | 90  | 100 | 117 | 125 | 133 | 140 | 150 | 167 | 175  |
|                      |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |     |     |     |     |      |
| VS8/05-Y-R20-M4-50DP | 0,75        | 1    | 31  | 25  | 24  | 23  | 22  | 20  | 19  | 18  | 17  | 15  | 12  | 9    |
| VS8/08-Y-R20-M4-50DP | 1,1         | 1,5  | 50  | 40  | 38  | 37  | 36  | 33  | 32  | 30  | 28  | 26  | 20  | 16   |
| VS8/12-Y-R20-M4-50DP | 1,5         | 2    | 69  | 55  | 53  | 51  | 50  | 47  | 44  | 41  | 39  | 36  | 28  | 23   |
| VS8/18-Y-R20-M4-50DP | 2,2         | 3    | 110                                       | 90  | 87  | 84  | 82  | 77  | 73  | 68  | 65  | 59  | 47  | 38   |
| VS8/24-Y-R20-M4-50DP | 3           | 4    | 146                                       | 119 | 114 | 110 | 108 | 101 | 96  | 89  | 84  | 77  | 60  | 49   |
| VS8/31-Y-R20-M4-50DP | 4           | 5,5  | 191                                       | 155 | 149 | 144 | 140 | 132 | 125 | 117 | 110 | 101 | 79  | 64   |
| VS8/45-Y-R20-M4-50DP | 5,5         | 7,5  | 277                                       | 224 | 215 | 208 | 203 | 190 | 181 | 169 | 160 | 146 | 115 | 94   |
| VS8/56-Y-R20-M4-50DP | 7,5         | 10   | 339                                       | 283 | 273 | 264 | 257 | 241 | 228 | 212 | 199 | 178 | 132 | 105  |

Application range

# Hydraulic performance 2850 rpm - 50 Hz

## VS10

| Pump model            | Rated power |      | Q = Delivery                              |     |     |     |     |     |     |     |     |     |       |     |
|-----------------------|-------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
|                       |             |      | m <sup>3</sup> /h 0                       | 5,4 | 7,5 | 8   | 8,4 | 9   | 9,6 | 10  | 11  | 12  | 14    | 16  |
|                       | [kW]        | [HP] | l/min 0                                   | 90  | 125 | 133 | 140 | 150 | 160 | 167 | 183 | 200 | 233,4 | 267 |
|                       |             |      | H = Total meters head of water column [m] |     |     |     |     |     |     |     |     |     |       |     |
| VS10/05-Y-R20-M4-50DP | 1,1         | 1,5  | 31  | 28  | 25  | 24  | 23  | 22  | 21  | 20  | 18  | 14  | 11    | 8   |
| VS10/07-Y-R20-M4-50DP | 1,5         | 2    | 43  | 38  | 34  | 33  | 32  | 31  | 29  | 28  | 25  | 20  | 15    | 10  |
| VS10/11-Y-R20-M4-50DP | 2,2         | 3    | 66  | 59  | 53  | 51  | 50  | 48  | 45  | 43  | 39  | 32  | 24    | 16  |
| VS10/14-Y-R20-M4-50DP | 3           | 4    | 84  | 74  | 67  | 65  | 63  | 60  | 57  | 55  | 49  | 40  | 31    | 22  |
| VS10/18-Y-R20-M4-50DP | 4           | 5,5  | 108                                       | 97  | 87  | 84  | 82  | 78  | 74  | 71  | 64  | 52  | 40    | 28  |
| VS10/25-Y-R20-M4-50DP | 5,5         | 7,5  | 149                                       | 136 | 125 | 119 | 114 | 108 | 102 | 99  | 89  | 73  | 56    | 39  |
| VS10/32-Y-R20-M4-50DP | 7,5         | 10   | 194                                       | 178 | 163 | 158 | 154 | 148 | 141 | 137 | 124 | 104 | 84    | 64  |

 Application range

## VS 15

| Pump model            | Rated power |      | Q = Delivery                              |     |     |     |     |     |      |     |     |     |     |     |
|-----------------------|-------------|------|---|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
|                       |             |      | m <sup>3</sup> /h 0                       | 9   | 10  | 11  | 12  | 13  | 14,5 | 15  | 16  | 17  | 19  | 24  |
|                       | [kW]        | [HP] | l/min 0                                   | 150 | 167 | 183 | 200 | 217 | 242  | 250 | 267 | 283 | 317 | 400 |
|                       |             |      | H = Total meters head of water column [m] |     |     |     |     |     |      |     |     |     |     |     |
| VS15/08-Y-R20-M4-50DP | 2,2         | 3    | 46  | 37  | 35  | 33  | 32  | 31  | 28   | 28  | 26  | 24  | 21  | 10  |
| VS15/10-Y-R20-M4-50DP | 3           | 4    | 59  | 47  | 45  | 43  | 42  | 40  | 37   | 36  | 34  | 32  | 28  | 15  |
| VS15/13-Y-R20-M4-50DP | 4           | 5,5  | 77  | 63  | 61  | 58  | 56  | 54  | 50   | 49  | 47  | 44  | 38  | 21  |
| VS15/19-Y-R20-M4-50DP | 5,5         | 7,5  | 114                                       | 95  | 92  | 89  | 85  | 82  | 77   | 75  | 71  | 67  | 59  | 34  |
| VS15/25-Y-R20-M4-50DP | 7,5         | 10   | 154                                       | 128 | 124 | 120 | 115 | 111 | 104  | 102 | 97  | 92  | 80  | 49  |

 Application range



# Technical data and performance curves

The pumps are according to EU regulation No 547/2012  
For more information please consult our website [franklinwater.eu](http://franklinwater.eu)

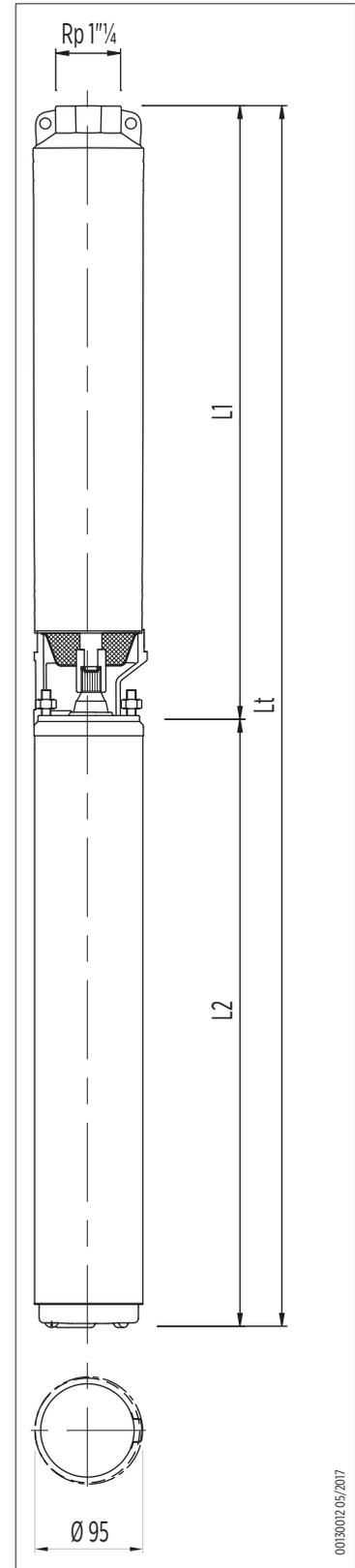
# VS 1 - Technical data

## PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor type |      |      | Dimensions [mm] |       |       |        | Weight [kg] |      |       |      |       |       |
|----------------------|------------|------|------|-----------------|-------|-------|--------|-------------|------|-------|------|-------|-------|
|                      | Type       | [kW] | [HP] | L1              | L2    |       | Lt     |             | Pump | Motor |      | Total |       |
|                      |            |      |      |                 | 1 -   | 3 -   | 1 -    | 3 -         |      | 1 -   | 3 -  |       |       |
| VS1/06-Y-R14-M4-50DP | CT4        | 0,37 | 0,5  | 307             | 251,1 | 237,2 | 558,1  | 544,2       | 2,7  | 7,2   | 5,58 | 9,9   | 8,28  |
| VS1/09-Y-R14-M4-50DP | CT4        | 0,37 | 0,5  | 369             | 251,1 | 237,2 | 620,1  | 606,2       | 3,2  | 7,2   | 5,58 | 10,4  | 8,78  |
| VS1/13-Y-R14-M4-50DP | CT4        | 0,55 | 0,75 | 453             | 276,2 | 251,1 | 729,2  | 704,1       | 3,9  | 8,35  | 6,4  | 12,25 | 10,3  |
| VS1/17-Y-R14-M4-50DP | CT4        | 0,75 | 1    | 536             | 297,2 | 271,2 | 833,2  | 807,2       | 4,7  | 9,3   | 7,25 | 14    | 11,95 |
| VS1/26-Y-R14-M4-50DP | CT4        | 1,1  | 1,5  | 776             | 321,2 | 297,2 | 1097,2 | 1073,2      | 6,6  | 10,45 | 8,55 | 17,05 | 15,15 |

## PUMPS WITH OIL-FILLED MOTOR

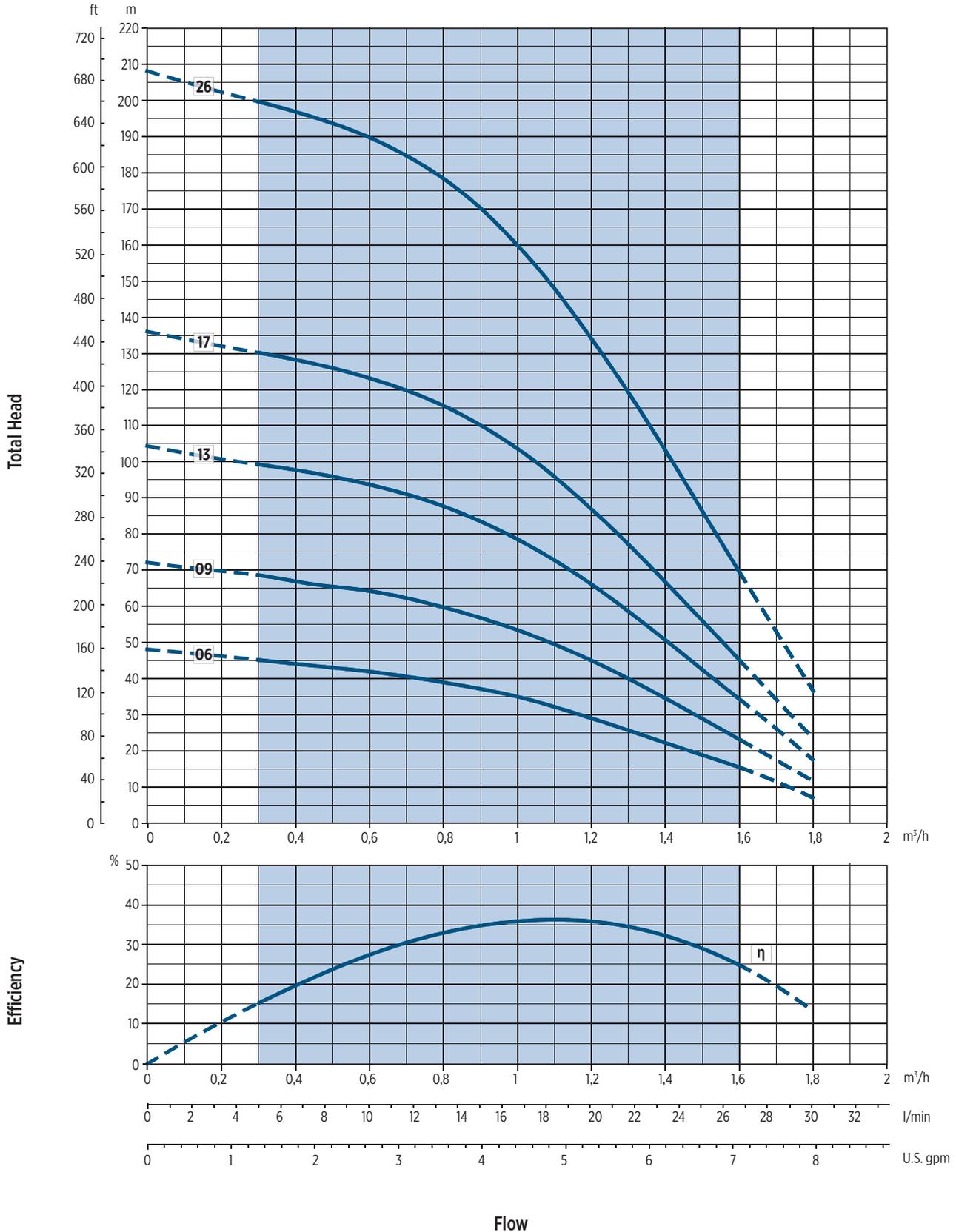
| Pump model           | Motor type |      |      | Dimensions [mm] |     |     |      | Weight [kg] |      |       |     |       |      |
|----------------------|------------|------|------|-----------------|-----|-----|------|-------------|------|-------|-----|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |     | Lt   |             | Pump | Motor |     | Total |      |
|                      |            |      |      |                 | 1 - | 3 - | 1 -  | 3 -         |      | 1 -   | 3 - |       |      |
| VS1/06-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 307             | 326 | 326 | 633  | 633         | 2,7  | 7,1   | 7,1 | 9,8   | 9,8  |
| VS1/09-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 369             | 326 | 326 | 695  | 695         | 3,2  | 7,1   | 7,1 | 10,3  | 10,3 |
| VS1/13-Y-R14-M4-50DP | NBS4       | 0,55 | 0,75 | 453             | 335 | 335 | 788  | 788         | 3,9  | 7,5   | 7,5 | 11,4  | 11,4 |
| VS1/17-Y-R14-M4-50DP | NBS4       | 0,75 | 1    | 536             | 356 | 345 | 892  | 881         | 4,7  | 8,5   | 7,9 | 13,2  | 12,6 |
| VS1/26-Y-R14-M4-50DP | NBS4       | 1,1  | 1,5  | 776             | 380 | 367 | 1156 | 1143        | 6,6  | 9,6   | 8,9 | 16,2  | 15,5 |



00130012.05/2017

# VS 1 - Performance curves 2850 rpm - 50 Hz

MEI ≥ 0,40



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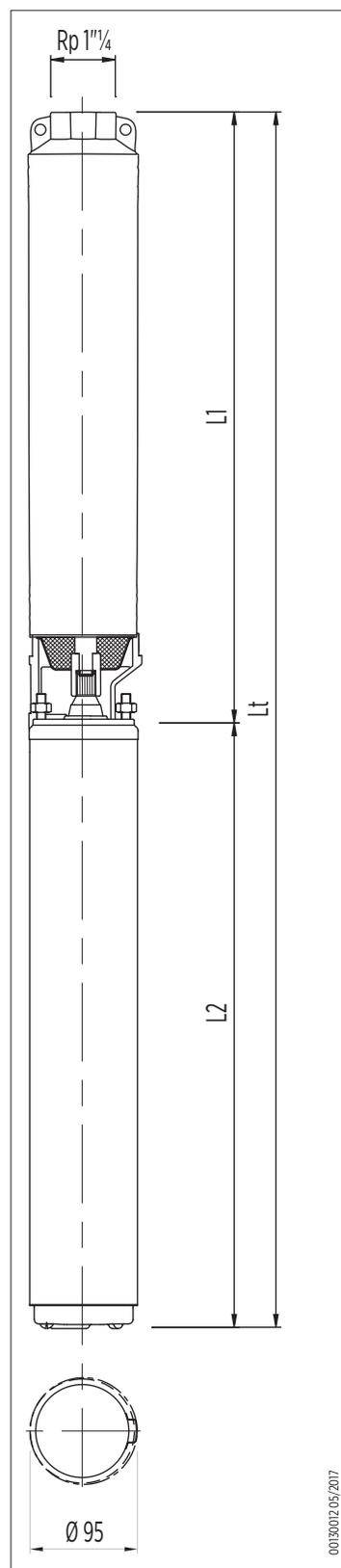
## VS 2 - Technical data

### PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor |      |      | Dimensions [mm] |       |       |        | Weight [kg] |      |       |       |       |       |
|----------------------|-------|------|------|-----------------|-------|-------|--------|-------------|------|-------|-------|-------|-------|
|                      | Type  | [kW] | [HP] | L1              | L2    |       | Lt     |             | Pump | Motor |       | Total |       |
|                      |       |      |      |                 | 1 -   | 3 -   | 1 -    | 3 -         |      | 1 -   | 3 -   |       |       |
| VS2/05-Y-R14-M4-50DP | CT4   | 0,37 | 0,5  | 287             | 251,1 | 237,2 | 538,1  | 524,2       | 2,75 | 7,2   | 5,58  | 9,95  | 8,33  |
| VS2/06-Y-R14-M4-50DP | CT4   | 0,37 | 0,5  | 312             | 251,1 | 237,2 | 563,1  | 549,2       | 2,87 | 7,2   | 5,58  | 10,07 | 8,45  |
| VS2/09-Y-R14-M4-50DP | CT4   | 0,55 | 0,75 | 387             | 276,2 | 251,1 | 663,2  | 638,1       | 3,35 | 8,35  | 6,4   | 11,7  | 9,75  |
| VS2/12-Y-R14-M4-50DP | CT4   | 0,75 | 1    | 462             | 297,2 | 271,2 | 759,2  | 733,2       | 4,35 | 9,3   | 7,25  | 13,65 | 11,6  |
| VS2/18-Y-R14-M4-50DP | CT4   | 1,1  | 1,5  | 644             | 321,2 | 297,2 | 965,2  | 941,2       | 5,38 | 10,45 | 8,55  | 15,83 | 13,93 |
| VS2/25-Y-R14-M4-50DP | CT4   | 1,5  | 2    | 819             | 353,2 | 321,2 | 1172,2 | 1140,2      | 6,88 | 11,9  | 9,55  | 18,78 | 16,43 |
| VS2/36-Y-R14-M4-50DP | CT4   | 2,2  | 3    | 1159            | 451,2 | 353,2 | 1610,2 | 1512,2      | 9,47 | 16,65 | 11,05 | 26,12 | 20,52 |

### PUMPS WITH OIL-FILLED MOTOR

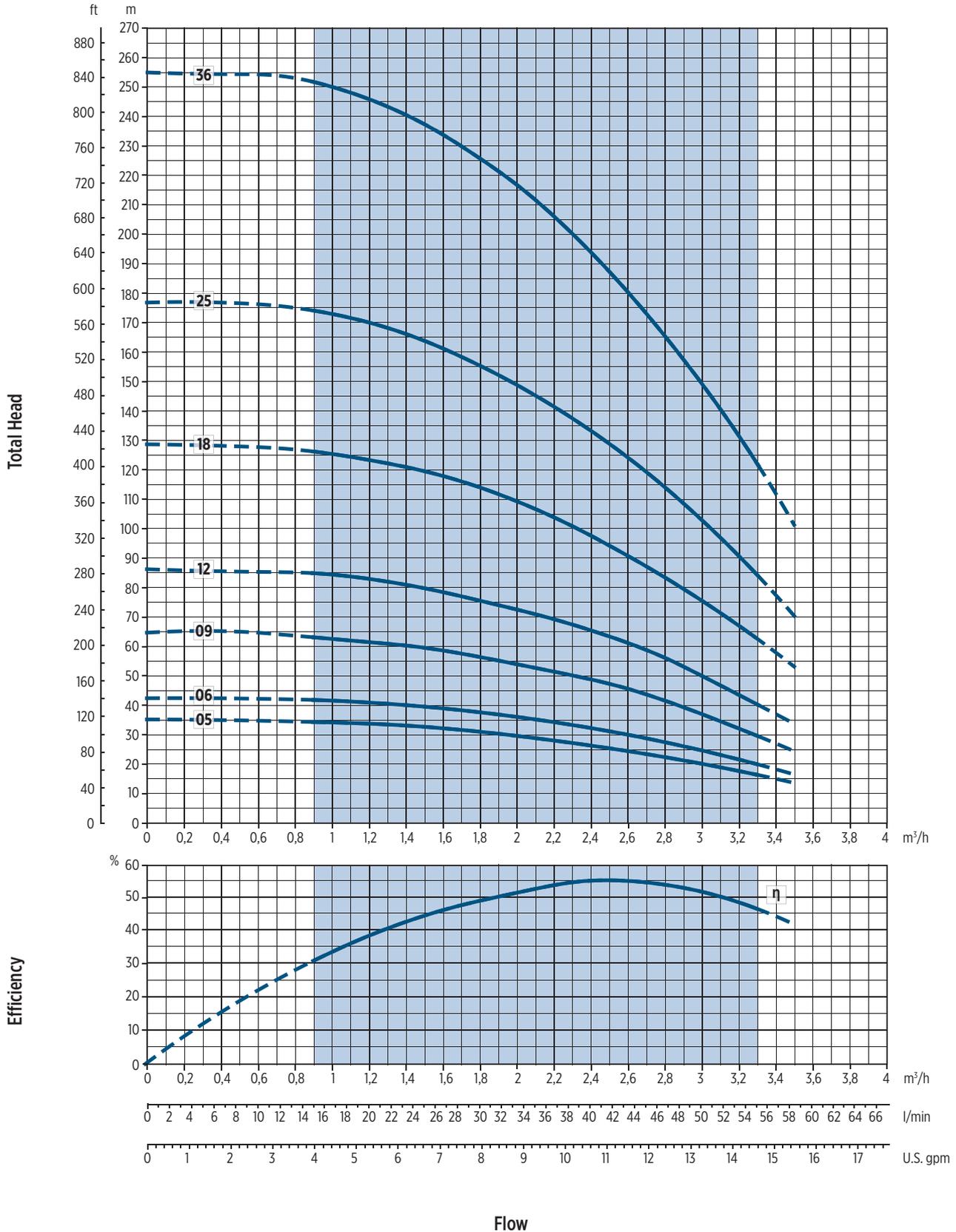
| Pump model           | Motor type |      |      | Dimensions [mm] |     |     |      | Weight [kg] |      |       |      |       |      |
|----------------------|------------|------|------|-----------------|-----|-----|------|-------------|------|-------|------|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |     | Lt   |             | Pump | Motor |      | Total |      |
|                      |            |      |      |                 | 1 - | 3 - | 1 -  | 3 -         |      | 1 -   | 3 -  |       |      |
| VS2/05-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 287             | 326 | 326 | 613  | 613         | 2,75 | 7,1   | 7,1  | 9,9   | 9,9  |
| VS2/06-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 312             | 326 | 326 | 638  | 638         | 2,87 | 7,1   | 7,1  | 10    | 10   |
| VS2/09-Y-R14-M4-50DP | NBS4       | 0,55 | 0,75 | 387             | 335 | 335 | 722  | 722         | 3,35 | 7,5   | 7,5  | 10,9  | 10,9 |
| VS2/12-Y-R14-M4-50DP | NBS4       | 0,75 | 1    | 462             | 356 | 345 | 818  | 807         | 4,35 | 8,5   | 7,9  | 12,9  | 12,3 |
| VS2/18-Y-R14-M4-50DP | NBS4       | 1,1  | 1,5  | 644             | 380 | 367 | 1024 | 1011        | 5,38 | 9,6   | 8,9  | 15    | 14,3 |
| VS2/25-Y-R14-M4-50DP | NBS4       | 1,5  | 2    | 819             | 425 | 387 | 1244 | 1206        | 6,88 | 11,8  | 9,9  | 18,7  | 16,8 |
| VS2/36-Y-R14-M4-50DP | NBS4       | 2,2  | 3    | 1159            | 474 | 425 | 1633 | 1584        | 9,47 | 14,1  | 11,6 | 23,6  | 21,1 |



00130012.05/2017

# VS 2 - Performance curves 2850 rpm - 50 Hz

MEI ≥ 0,40



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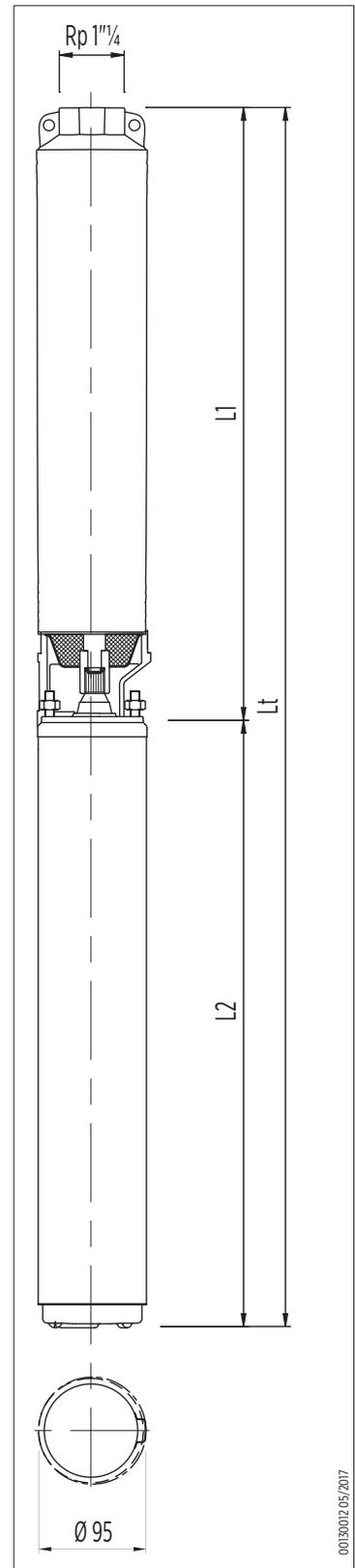
# VS 3 - Technical data

## PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor |      |      | Dimensions [mm] |       |       |        |        | Weight [kg] |       |       |       |       |
|----------------------|-------|------|------|-----------------|-------|-------|--------|--------|-------------|-------|-------|-------|-------|
|                      | Type  | [kW] | [HP] | L1              | L2    |       | Lt     |        | Pump        | Motor |       | Total |       |
|                      |       |      |      |                 | 1 -   | 3 -   | 1 -    | 3 -    |             | 1 -   | 3 -   | 1 -   | 3 -   |
| VS3/05-Y-R14-M4-50DP | CT4   | 0,37 | 0,5  | 293             | 251,1 | 237,2 | 544,1  | 530,2  | 2,8         | 7,2   | 5,58  | 10    | 8,38  |
| VS3/07-Y-R14-M4-50DP | CT4   | 0,55 | 0,75 | 345             | 276,2 | 251,1 | 621    | 596    | 3           | 8,35  | 6,4   | 11,4  | 9,4   |
| VS3/10-Y-R14-M4-50DP | CT4   | 0,75 | 1    | 424             | 297,2 | 271,2 | 721,2  | 695,2  | 3,7         | 9,3   | 7,25  | 13    | 10,95 |
| VS3/14-Y-R14-M4-50DP | CT4   | 1,1  | 1,5  | 561             | 321,2 | 297,2 | 882,2  | 858,2  | 4,6         | 10,45 | 8,55  | 15,05 | 13,15 |
| VS3/20-Y-R14-M4-50DP | CT4   | 1,5  | 2    | 718             | 353,2 | 321,2 | 1071,2 | 1039,2 | 5,9         | 11,9  | 9,55  | 17,8  | 15,45 |
| VS3/28-Y-R14-M4-50DP | CT4   | 2,2  | 3    | 960             | 451,2 | 353,2 | 1411,2 | 1313,2 | 7,7         | 16,65 | 11,05 | 24,35 | 18,75 |
| VS3/38-Y-R14-M4-50DP | CT4   | 3    | 4    | 1255            | -     | 408,2 | -      | 1663,2 | 10          | -     | 13,55 | -     | 23,55 |

## PUMPS WITH OIL-FILLED MOTOR

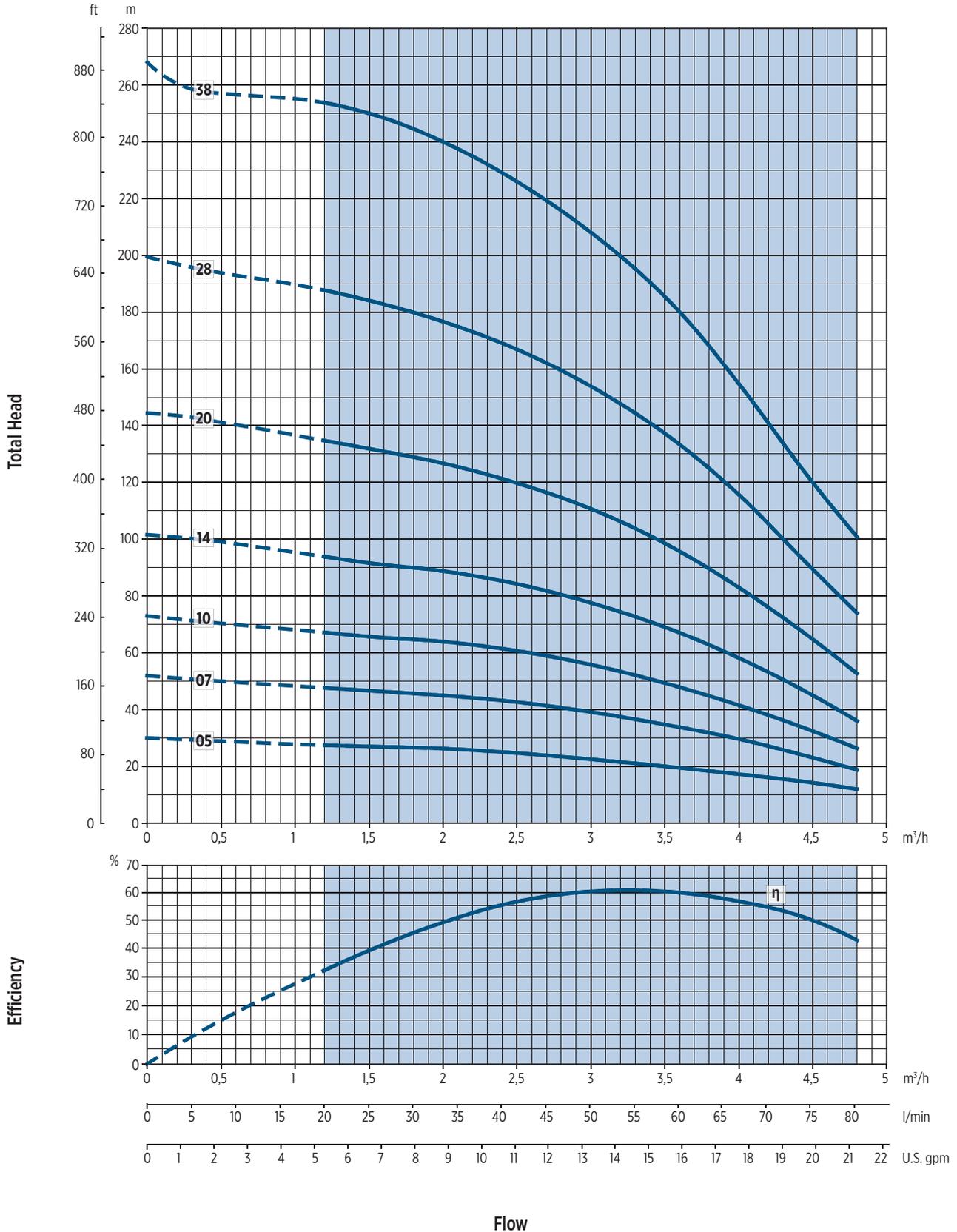
| Pump model           | Motor type |      |      | Dimensions [mm] |     |       |      |        | Weight [kg] |       |      |       |      |
|----------------------|------------|------|------|-----------------|-----|-------|------|--------|-------------|-------|------|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |        | Pump        | Motor |      | Total |      |
|                      |            |      |      |                 | 1 - | 3 -   | 1 -  | 3 -    |             | 1 -   | 3 -  | 1 -   | 3 -  |
| VS3/05-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 293             | 326 | 326   | 619  | 619    | 2,8         | 7,1   | 7,1  | 9,9   | 9,9  |
| VS3/07-Y-R14-M4-50DP | NBS4       | 0,55 | 0,75 | 345             | 335 | 335   | 680  | 680    | 3           | 7,5   | 7,5  | 10,5  | 10,5 |
| VS3/10-Y-R14-M4-50DP | NBS4       | 0,75 | 1    | 424             | 356 | 345   | 780  | 769    | 3,7         | 8,5   | 7,9  | 12,2  | 11,6 |
| VS3/14-Y-R14-M4-50DP | NBS4       | 1,1  | 1,5  | 561             | 380 | 367   | 941  | 928    | 4,6         | 9,6   | 8,9  | 14,2  | 13,5 |
| VS3/20-Y-R14-M4-50DP | NBS4       | 1,5  | 2    | 718             | 425 | 387   | 1143 | 1105   | 5,9         | 11,8  | 9,9  | 17,7  | 15,8 |
| VS3/28-Y-R14-M4-50DP | NBS4       | 2,2  | 3    | 960             | 474 | 425   | 1434 | 1385   | 7,7         | 14,1  | 11,6 | 21,8  | 19,3 |
| VS3/38-Y-R14-M4-50DP | NBS4       | 3    | 4    | 1255            | 541 | 475,7 | 1796 | 1730,7 | 10          | 17    | 14,1 | 27    | 24,1 |



00130102/05/2017

# VS 3 - Performance curves 2850 rpm - 50 Hz

MEI ≥ 0,40



00203071/2025

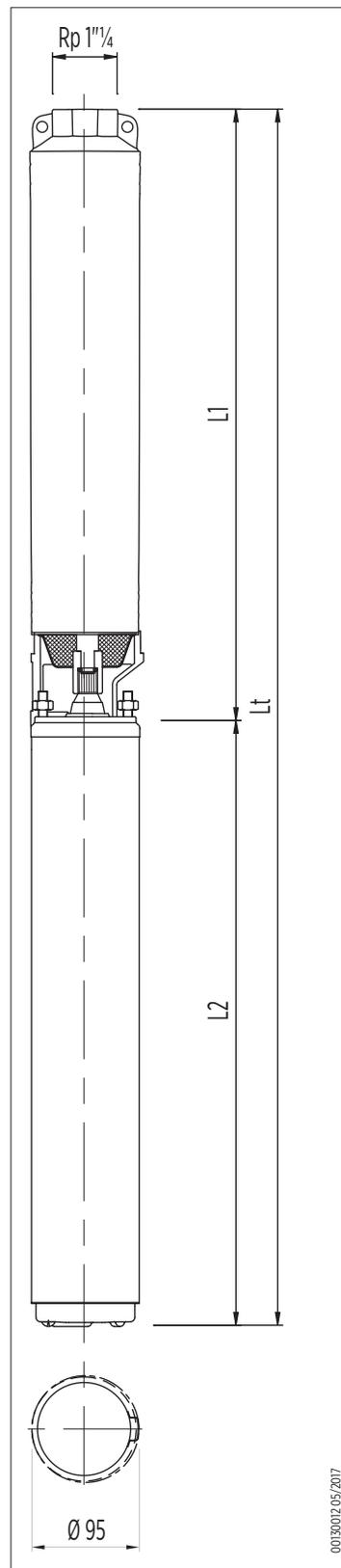
# VS 4 - Technical data

## PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor |      |      | Dimensions [mm] |       |       |        |        |       | Weight [kg] |       |       |       |
|----------------------|-------|------|------|-----------------|-------|-------|--------|--------|-------|-------------|-------|-------|-------|
|                      | Type  | [kW] | [HP] | L1              | L2    |       | Lt     |        | Pump  | Motor       |       | Total |       |
|                      |       |      |      |                 | 1-    | 3-    | 1-     | 3-     |       | 1-          | 3-    |       |       |
| VS4/04-Y-R14-M4-50DP | CT4   | 0,37 | 0,5  | 279             | 251,1 | 237,2 | 530,1  | 516,2  | 2,61  | 7,2         | 5,58  | 9,81  | 8,19  |
| VS4/07-Y-R14-M4-50DP | CT4   | 0,55 | 0,75 | 366             | 276,2 | 251,1 | 642,2  | 617,1  | 3,22  | 8,35        | 6,4   | 11,57 | 9,62  |
| VS4/09-Y-R14-M4-50DP | CT4   | 0,75 | 1    | 425             | 297,2 | 271,2 | 722,2  | 696,2  | 3,67  | 9,3         | 7,25  | 12,97 | 10,92 |
| VS4/13-Y-R14-M4-50DP | CT4   | 1,1  | 1,5  | 574             | 321,2 | 297,2 | 895,2  | 871,2  | 4,67  | 10,45       | 8,55  | 15,12 | 13,22 |
| VS4/18-Y-R14-M4-50DP | CT4   | 1,5  | 2    | 720             | 353,2 | 321,2 | 1073,2 | 1041,2 | 5,99  | 11,9        | 9,55  | 17,89 | 15,54 |
| VS4/26-Y-R14-M4-50DP | CT4   | 2,2  | 3    | 986             | 451,2 | 353,2 | 1437,2 | 1339,2 | 8,06  | 16,65       | 11,05 | 24,71 | 19,11 |
| VS4/34-Y-R14-M4-50DP | CT4   | 3    | 4    | 1252            | -     | 408,2 | -      | 1660,2 | 9,93  | -           | 13,55 | -     | 23,48 |
| VS4/42-Y-R14-M4-50DP | CT4   | 3,7  | 5    | 1485            | -     | 520,2 | -      | 2005,2 | 11,72 | -           | 19,1  | -     | 30,82 |
| VS4/44-Y-R14-M4-50DP | CT4   | 4    | 5,5  | 1577            | -     | 543,2 | -      | 2120,2 | 12,19 | -           | 20    | -     | 32,19 |

## PUMPS WITH OIL-FILLED MOTOR

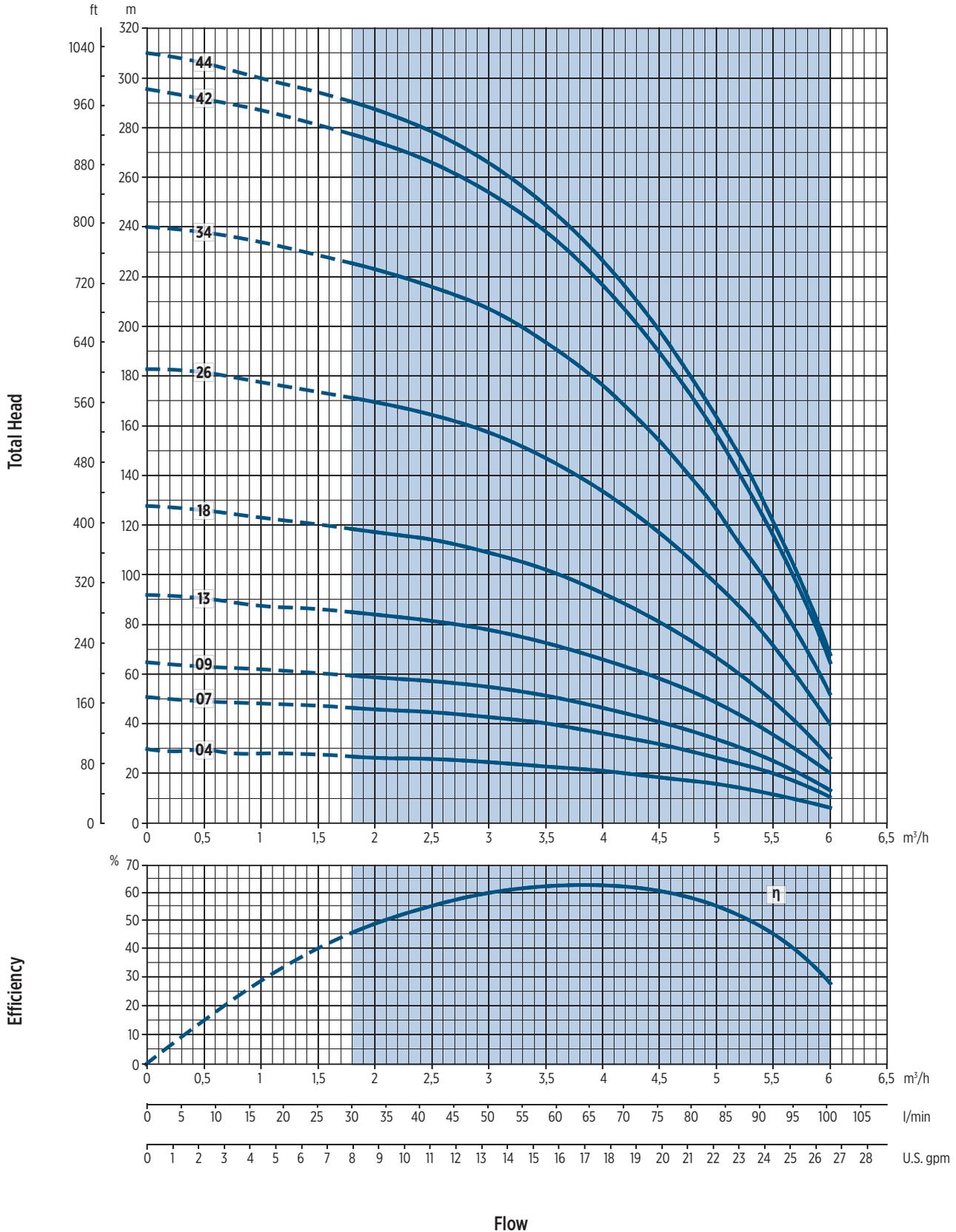
| Pump model           | Motor type |      |      | Dimensions [mm] |     |       |      |        |       | Weight [kg] |      |       |      |
|----------------------|------------|------|------|-----------------|-----|-------|------|--------|-------|-------------|------|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |        | Pump  | Motor       |      | Total |      |
|                      |            |      |      |                 | 1-  | 3-    | 1-   | 3-     |       | 1-          | 3-   |       |      |
| VS4/04-Y-R14-M4-50DP | NBS4       | 0,37 | 0,5  | 279             | 326 | 326   | 605  | 605    | 2,61  | 7,1         | 7,1  | 9,7   | 9,7  |
| VS4/07-Y-R14-M4-50DP | NBS4       | 0,55 | 0,75 | 366             | 335 | 335   | 701  | 701    | 3,22  | 7,5         | 7,5  | 10,7  | 10,7 |
| VS4/09-Y-R14-M4-50DP | NBS4       | 0,75 | 1    | 425             | 356 | 345   | 781  | 770    | 3,67  | 8,5         | 7,9  | 12,2  | 11,6 |
| VS4/13-Y-R14-M4-50DP | NBS4       | 1,1  | 1,5  | 574             | 380 | 367   | 954  | 941    | 4,67  | 9,6         | 8,9  | 14,3  | 13,6 |
| VS4/18-Y-R14-M4-50DP | NBS4       | 1,5  | 2    | 720             | 425 | 387   | 1145 | 1107   | 5,99  | 11,8        | 9,9  | 17,8  | 15,9 |
| VS4/26-Y-R14-M4-50DP | NBS4       | 2,2  | 3    | 986             | 474 | 425   | 1460 | 1411   | 8,06  | 14,1        | 11,6 | 22,2  | 19,7 |
| VS4/34-Y-R14-M4-50DP | NBS4       | 3    | 4    | 1252            | 541 | 475,7 | 1793 | 1727,7 | 9,93  | 17          | 14,1 | 26,9  | 24   |
| VS4/42-Y-R14-M4-50DP | NBS4       | 4    | 5,5  | 1485            | 636 | 541,7 | 2121 | 2027   | 11,72 | 22,7        | 17   | 34,4  | 28,7 |
| VS4/44-Y-R14-M4-50DP | NBS4       | 4    | 5,5  | 1577            | 636 | 541,7 | 2213 | 2118,7 | 12,19 | 22,7        | 17   | 34,9  | 29,2 |



00130102.05/2017

# VS 4 - Performance curves 2850 rpm - 50 Hz

MEI ≥ 0,40



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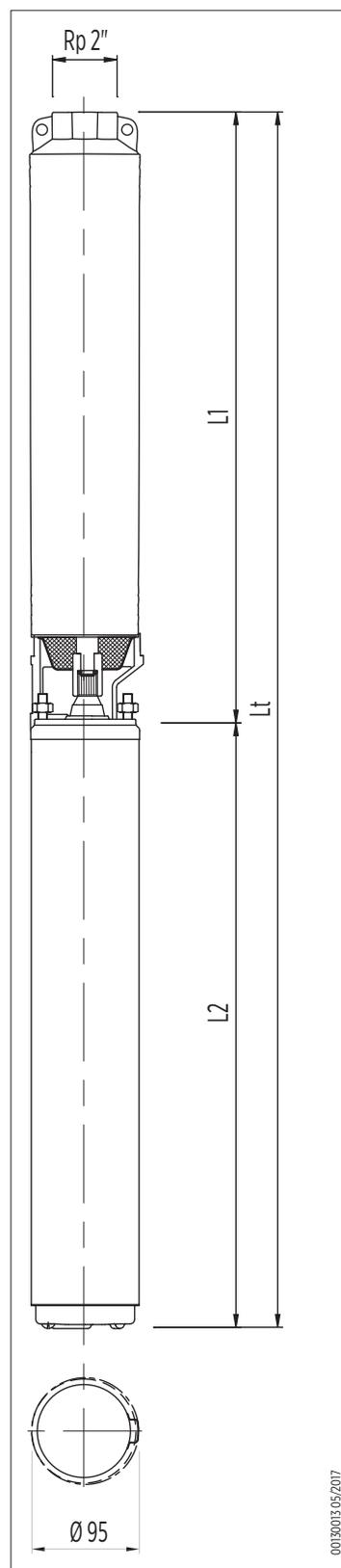
## VS 6 - Technical data

### PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor |      |      | Dimensions[mm] |       |       |        | Weight [kg] |       |       |       |       |       |
|----------------------|-------|------|------|----------------|-------|-------|--------|-------------|-------|-------|-------|-------|-------|
|                      | Type  | [kW] | [HP] | L1             | L2    |       | Lt     |             | Pump  | Motor |       | Total |       |
|                      |       |      |      |                | 1-    | 3-    | 1-     | 3-          |       | 1-    | 3-    |       |       |
| VS6/07-Y-R20-M4-50DP | CT4   | 0,75 | 1    | 387            | 297,2 | 271,2 | 684,2  | 658,2       | 3,48  | 9,3   | 7,25  | 12,78 | 10,73 |
| VS6/11-Y-R20-M4-50DP | CT4   | 1,1  | 1,5  | 510            | 321,2 | 297,2 | 831,2  | 807,2       | 4,49  | 10,45 | 8,55  | 14,94 | 13,04 |
| VS6/15-Y-R20-M4-50DP | CT4   | 1,5  | 2    | 666            | 353,2 | 321,2 | 1019,2 | 987,2       | 5,5   | 11,9  | 9,55  | 17,4  | 15,05 |
| VS6/22-Y-R20-M4-50DP | CT4   | 2,2  | 3    | 882            | 451,2 | 353,2 | 1333,2 | 1235,2      | 7,28  | 16,65 | 11,05 | 23,93 | 18,33 |
| VS6/30-Y-R20-M4-50DP | CT4   | 3    | 4    | 1194           | -     | 408,2 | -      | 1602,2      | 9,33  | -     | 13,55 | -     | 22,88 |
| VS6/38-Y-R20-M4-50DP | CT4   | 3,7  | 5    | 1440           | -     | 520,2 | -      | 1960,2      | 11,39 | -     | 19,1  | -     | 30,49 |
| VS6/42-Y-R20-M4-50DP | CT4   | 4    | 5,5  | 1596           | -     | 543,2 | -      | 2139,2      | 12,43 | -     | 20    | -     | 32,43 |
| VS6/56-Y-R20-M4-50DP | CT4   | 5,5  | 7,5  | 2060           | -     | 652,5 | -      | 2712,5      | 16,5  | -     | 26,6  | -     | 43,1  |

### PUMPS WITH OIL-FILLED MOTOR

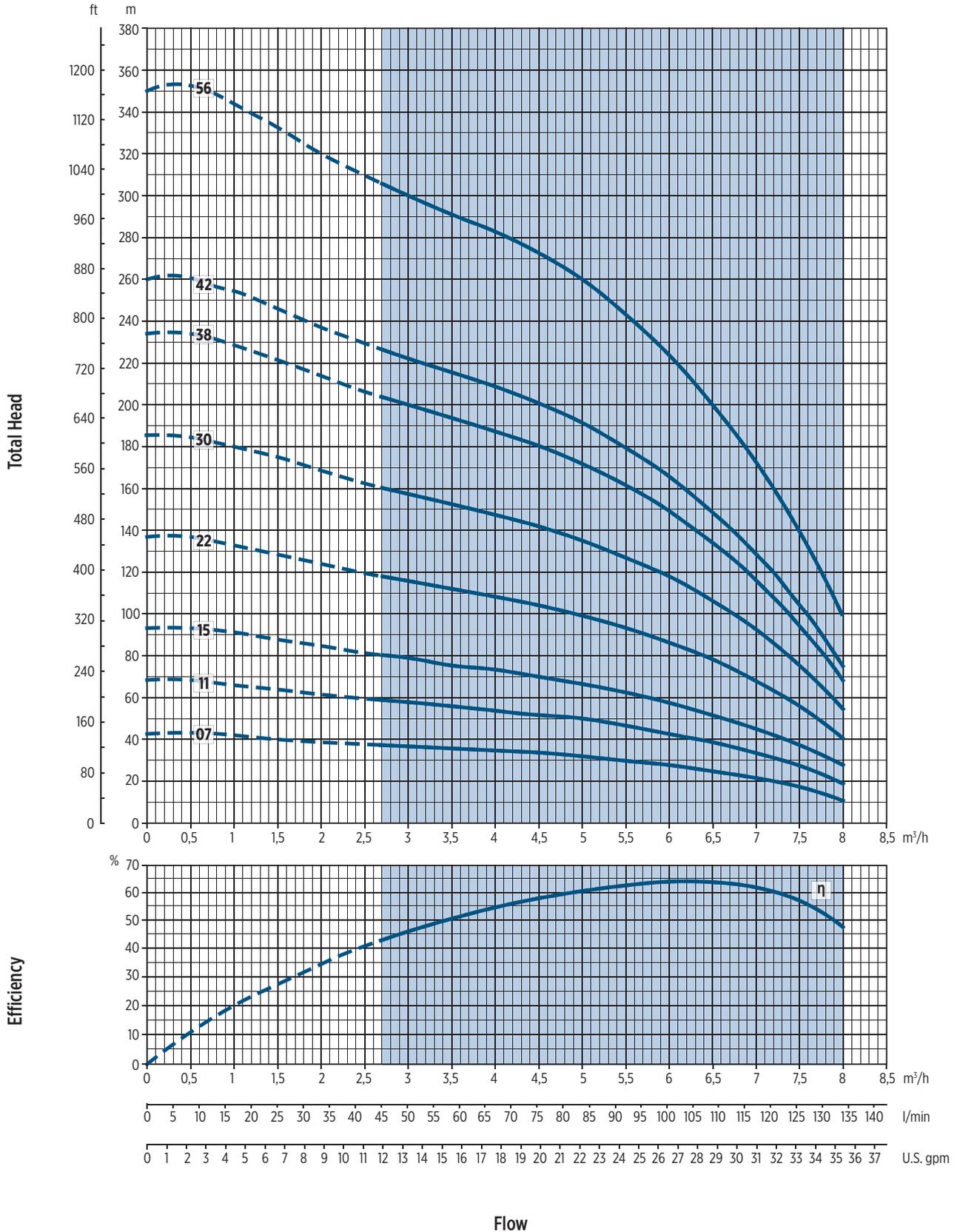
| Pump model           | Motor type |      |      | Dimensions [mm] |     |       |      | Weight [kg] |       |       |      |       |      |
|----------------------|------------|------|------|-----------------|-----|-------|------|-------------|-------|-------|------|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |             | Pump  | Motor |      | Total |      |
|                      |            |      |      |                 | 1-  | 3-    | 1-   | 3-          |       | 1-    | 3-   |       |      |
| VS6/07-Y-R20-M4-50DP | NBS4       | 0,75 | 1    | 387             | 356 | 345   | 743  | 732         | 3,48  | 8,5   | 7,9  | 12    | 11,4 |
| VS6/11-Y-R20-M4-50DP | NBS4       | 1,1  | 1,5  | 510             | 380 | 367   | 890  | 877         | 4,49  | 9,6   | 8,9  | 14,1  | 13,4 |
| VS6/15-Y-R20-M4-50DP | NBS4       | 1,5  | 2    | 666             | 425 | 387   | 1091 | 1053        | 5,5   | 11,8  | 9,9  | 17,3  | 15,4 |
| VS6/22-Y-R20-M4-50DP | NBS4       | 2,2  | 3    | 882             | 474 | 425   | 1356 | 1307        | 7,28  | 14,1  | 11,6 | 21,4  | 18,9 |
| VS6/30-Y-R20-M4-50DP | NBS4       | 3    | 4    | 1194            | 541 | 475,7 | 1735 | 1669,7      | 9,33  | 17    | 14,1 | 26,3  | 23,4 |
| VS6/38-Y-R20-M4-50DP | NBS4       | 4    | 5,5  | 1440            | 636 | 541,7 | 2076 | 1982        | 11,39 | 22,7  | 17   | 34,1  | 28,4 |
| VS6/42-Y-R20-M4-50DP | NBS4       | 4    | 5,5  | 1596            | 636 | 541,7 | 2232 | 2137,7      | 12,43 | 22,7  | 17   | 35,1  | 29,4 |
| VS6/56-Y-R20-M4-50DP | NBS4       | 5,5  | 7,5  | 2060            | -   | 635,7 | -    | 2695,7      | 16,5  | -     | 22,6 | -     | 39,1 |



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# VS 6 - Performance curves 2850 rpm - 50 Hz

MEI ≥ 0,40



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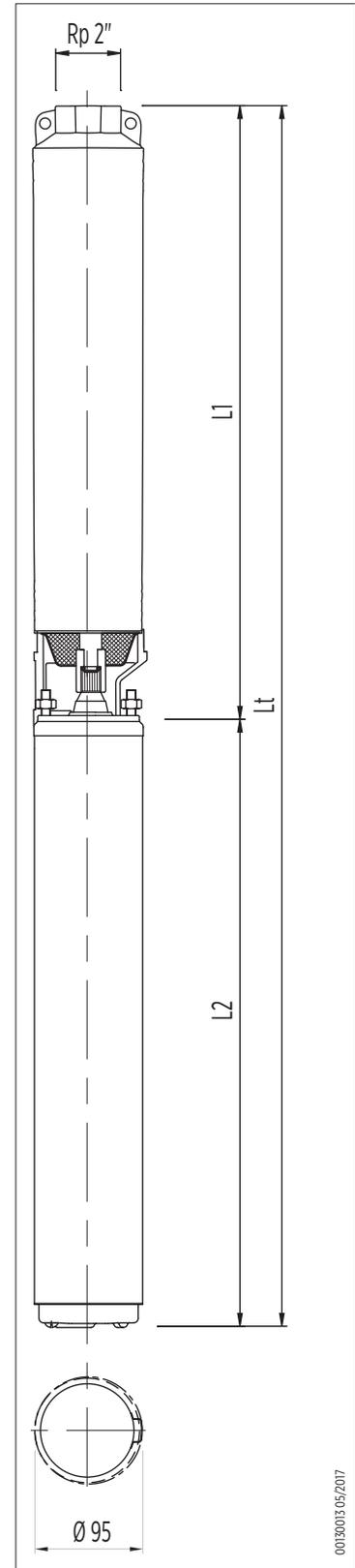
## VS 8 - Technical data

### PUMPS WITH ENCAPSULATED MOTOR

| Pump model           | Motor |      |      | Dimensions[mm] |       |       |        |        | Weight [kg] |       |       |       |       |
|----------------------|-------|------|------|----------------|-------|-------|--------|--------|-------------|-------|-------|-------|-------|
|                      | Type  | [kW] | [HP] | L1             | L2    |       | Lt     |        | Pump        | Motor |       | Total |       |
|                      |       |      |      |                | 1-    | 3-    | 1-     | 3-     |             | 1-    | 3-    |       |       |
| VS8/05-Y-R20-M4-50DP | CT4   | 0,75 | 1    | 363            | 297,2 | 271,2 | 660,2  | 634,2  | 3,5         | 9,3   | 7,25  | 12,8  | 10,75 |
| VS8/08-Y-R20-M4-50DP | CT4   | 1,1  | 1,5  | 477            | 321,2 | 297,2 | 798,2  | 774,2  | 3,95        | 10,45 | 8,55  | 14,4  | 12,5  |
| VS8/12-Y-R20-M4-50DP | CT4   | 1,5  | 2    | 663            | 353,2 | 321,2 | 1016,2 | 984,2  | 5,26        | 11,9  | 9,55  | 17,16 | 14,81 |
| VS8/18-Y-R20-M4-50DP | CT4   | 2,2  | 3    | 892            | 451,2 | 353,2 | 1343,2 | 1245,2 | 7,16        | 16,65 | 11,05 | 23,81 | 18,21 |
| VS8/24-Y-R20-M4-50DP | CT4   | 3    | 4    | 1187           | -     | 408,2 | -      | 1595,2 | 9,04        | -     | 13,55 | -     | 22,59 |
| VS8/31-Y-R20-M4-50DP | CT4   | 4    | 5,5  | 1454           | -     | 543,2 | -      | 1997,2 | 11,19       | -     | 20    | -     | 31,19 |
| VS8/45-Y-R20-M4-50DP | CT4   | 5,5  | 7,5  | 2021           | -     | 652,5 | -      | 2673,5 | 15,5        | -     | 26,6  | -     | 42,1  |
| VS8/56-Y-R20-M4-50DP | CT4   | 7,5  | 10   | 2474           | -     | 730,5 | -      | 3204,5 | 19,5        | -     | 30,6  | -     | 50,1  |

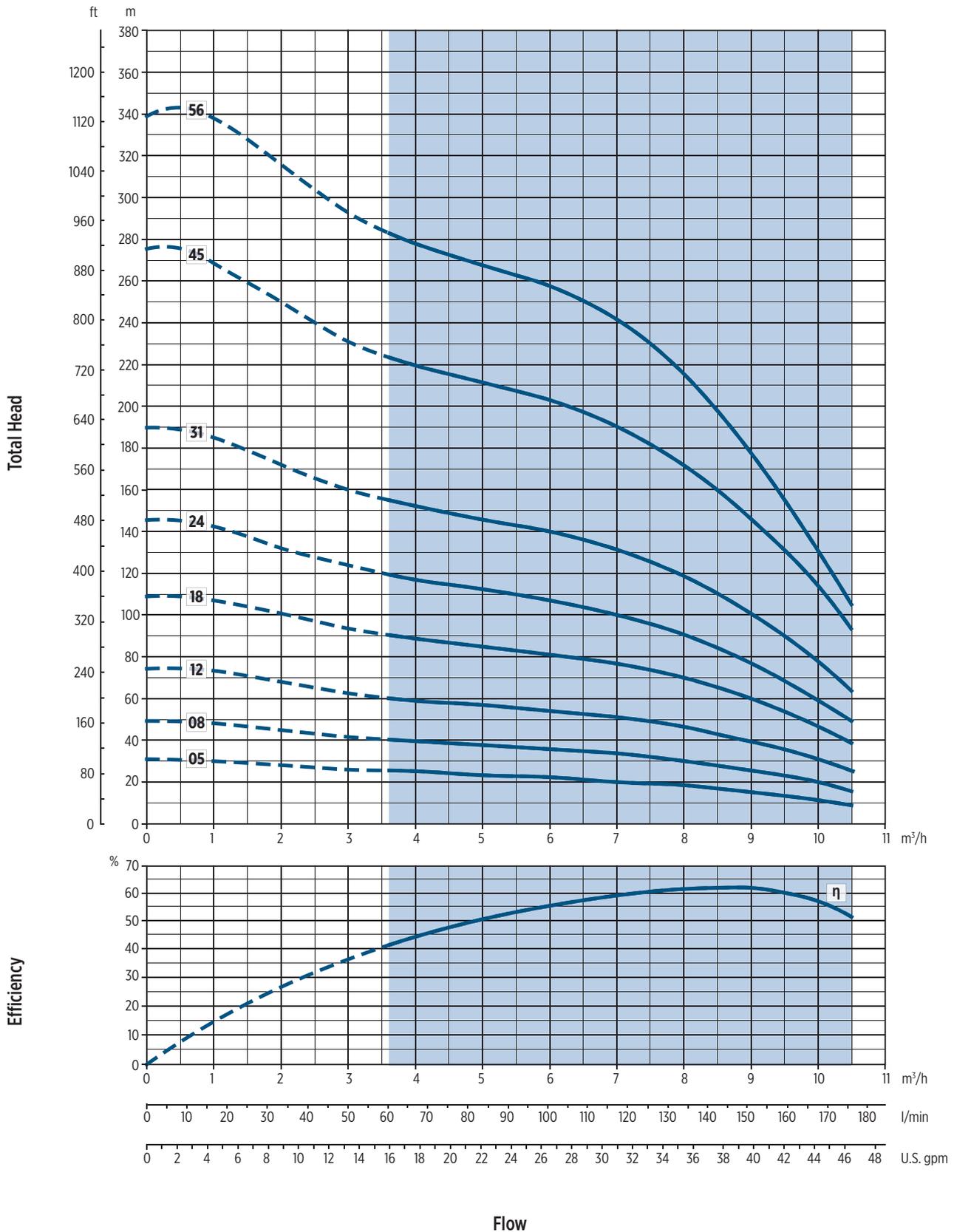
### PUMPS WITH OIL-FILLED MOTOR

| Pump model           | Motor type |      |      | Dimensions [mm] |     |       |      |        | Weight [kg] |       |      |       |      |
|----------------------|------------|------|------|-----------------|-----|-------|------|--------|-------------|-------|------|-------|------|
|                      | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |        | Pump        | Motor |      | Total |      |
|                      |            |      |      |                 | 1-  | 3-    | 1-   | 3-     |             | 1-    | 3-   |       |      |
| VS8/05-Y-R20-M4-50DP | NBS4       | 0,75 | 1    | 363             | 356 | 345   | 719  | 708    | 3,5         | 8,5   | 7,9  | 12    | 11,4 |
| VS8/08-Y-R20-M4-50DP | NBS4       | 1,1  | 1,5  | 477             | 380 | 367   | 857  | 844    | 3,95        | 9,6   | 8,9  | 13,6  | 12,9 |
| VS8/12-Y-R20-M4-50DP | NBS4       | 1,5  | 2    | 663             | 425 | 387   | 1088 | 1050   | 5,26        | 11,8  | 9,9  | 17,1  | 15,2 |
| VS8/18-Y-R20-M4-50DP | NBS4       | 2,2  | 3    | 892             | 474 | 425   | 1366 | 1317   | 7,16        | 14,1  | 11,6 | 21,3  | 18,8 |
| VS8/24-Y-R20-M4-50DP | NBS4       | 3    | 4    | 1187            | 541 | 475,7 | 1728 | 1662,7 | 9,04        | 17    | 14,1 | 26    | 23,1 |
| VS8/31-Y-R20-M4-50DP | NBS4       | 4    | 5,5  | 1454            | 636 | 541,7 | 2090 | 1995,7 | 11,19       | 22,7  | 17   | 33,9  | 28,2 |
| VS8/45-Y-R20-M4-50DP | NBS4       | 5,5  | 7,5  | 2016            | -   | 635,7 | -    | 2652   | 15,5        | -     | 22,6 | -     | 38,1 |
| VS8/56-Y-R20-M4-50DP | NBS4       | 7,5  | 10   | 2474            | -   | 744,7 | -    | 3218,7 | 19,5        | -     | 28   | -     | 47,5 |



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# VS 8 - Performance curves 2850 rpm - 50 Hz



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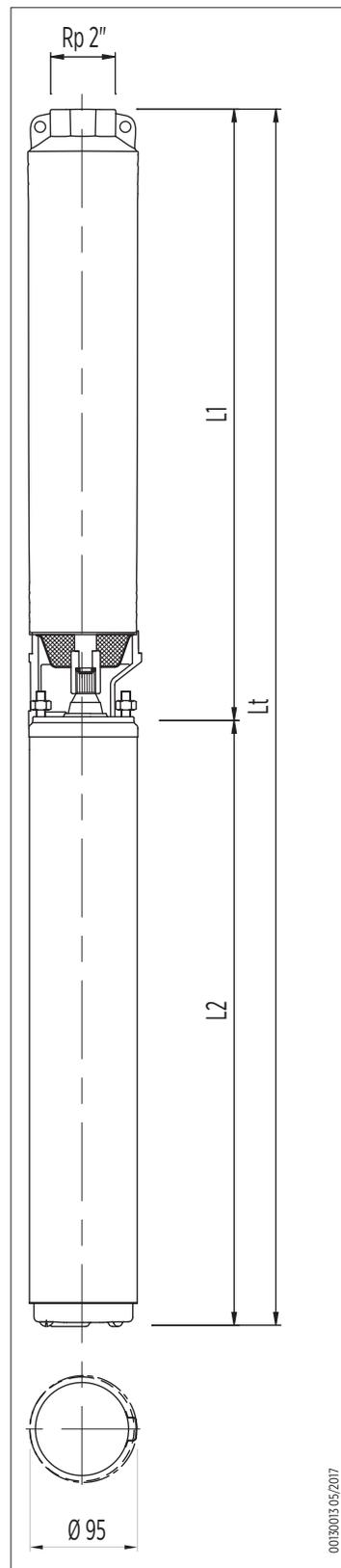
# VS 10 - Technical data

## PUMPS WITH ENCAPSULATED MOTOR

| Pump model            | Motor |      |      | Dimensions[mm] |       |       |        | Weight [kg] |      |       |       |       |       |
|-----------------------|-------|------|------|----------------|-------|-------|--------|-------------|------|-------|-------|-------|-------|
|                       | Type  | [kW] | [HP] | L1             | L2    |       | Lt     |             | Pump | Motor |       | Total |       |
|                       |       |      |      |                | 1 -   | 3 -   | 1 -    | 3 -         |      | 1 -   | 3 -   |       |       |
| VS10/05-Y-R20-M4-50DP | CT4   | 1,1  | 1,5  | 425            | 321,2 | 297,2 | 746,2  | 722,2       | 3,7  | 10,45 | 8,55  | 14,15 | 12,25 |
| VS10/07-Y-R20-M4-50DP | CT4   | 1,5  | 2    | 527            | 353,2 | 321,2 | 880,2  | 848,2       | 4,4  | 11,9  | 9,55  | 16,3  | 13,95 |
| VS10/11-Y-R20-M4-50DP | CT4   | 2,2  | 3    | 760            | 451,2 | 353,2 | 1211,2 | 1113,2      | 6,3  | 16,65 | 11,05 | 22,95 | 17,35 |
| VS10/14-Y-R20-M4-50DP | CT4   | 3    | 4    | 913            | -     | 408,2 | -      | 1321,2      | 7,6  | -     | 13,55 | -     | 21,15 |
| VS10/18-Y-R20-M4-50DP | CT4   | 4    | 5,5  | 1146           | -     | 543,2 | -      | 1689,2      | 9,4  | -     | 20    | -     | 29,4  |
| VS10/25-Y-R20-M4-50DP | CT4   | 5,5  | 7,5  | 1533           | -     | 652,5 | -      | 2185,5      | 12,4 | -     | 26,6  | -     | 39    |
| VS10/32-Y-R20-M4-50DP | CT4   | 7,5  | 10   | 1919           | -     | 730,5 | -      | 2649,5      | 15,8 | -     | 30,6  | -     | 46,4  |

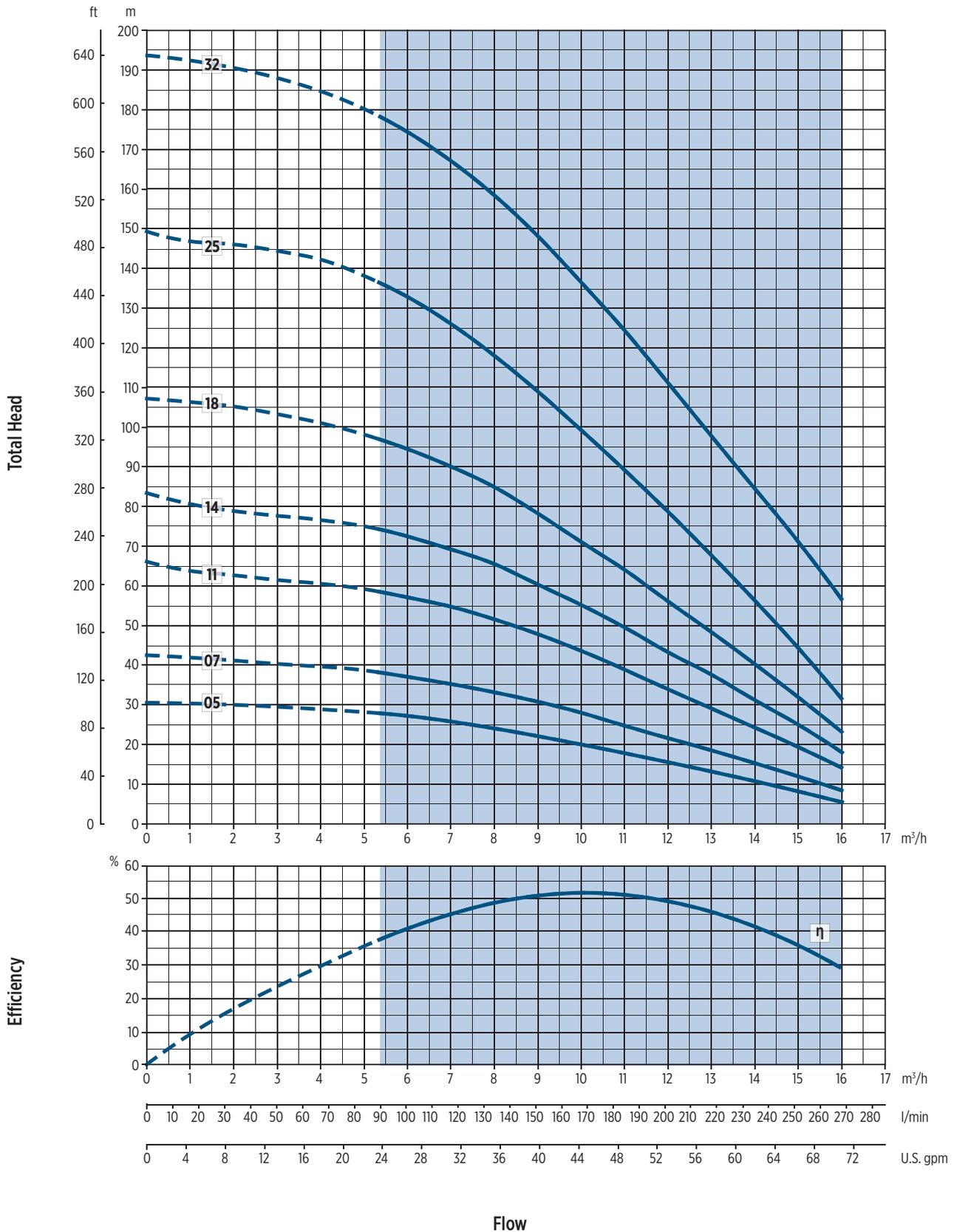
## PUMPS WITH OIL-FILLED MOTOR

| Pump model            | Motor type |      |      | Dimensions [mm] |     |       |      | Weight [kg] |      |       |      |       |      |
|-----------------------|------------|------|------|-----------------|-----|-------|------|-------------|------|-------|------|-------|------|
|                       | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |             | Pump | Motor |      | Total |      |
|                       |            |      |      |                 | 1 - | 3 -   | 1 -  | 3 -         |      | 1 -   | 3 -  |       |      |
| VS10/05-Y-R20-M4-50DP | NBS4       | 1,1  | 1,5  | 425             | 380 | 367   | 805  | 792         | 3,7  | 9,6   | 8,9  | 13,3  | 12,6 |
| VS10/07-Y-R20-M4-50DP | NBS4       | 1,5  | 2    | 527             | 425 | 387   | 952  | 914         | 4,4  | 11,8  | 9,9  | 16,2  | 14,3 |
| VS10/11-Y-R20-M4-50DP | NBS4       | 2,2  | 3    | 760             | 474 | 425   | 1234 | 1185        | 6,3  | 14,1  | 11,6 | 20,4  | 17,9 |
| VS10/14-Y-R20-M4-50DP | NBS4       | 3    | 4    | 913             | 541 | 475,7 | 1454 | 1388,7      | 7,6  | 17    | 14,1 | 24,6  | 21,7 |
| VS10/18-Y-R20-M4-50DP | NBS4       | 4    | 5,5  | 1146            | 636 | 541,7 | 1782 | 1687,7      | 9,4  | 22,7  | 17   | 32,1  | 26,4 |
| VS10/25-Y-R20-M4-50DP | NBS4       | 5,5  | 7,5  | 1533            | -   | 635,7 | -    | 2168,7      | 12,4 | -     | 22,6 | -     | 35   |
| VS10/32-Y-R20-M4-50DP | NBS4       | 7,5  | 10   | 1919            | -   | 744,7 | -    | 2663,7      | 15,8 | -     | 28   | -     | 43,8 |



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# VS 10 - Performance curves 2850 rpm - 50 Hz



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The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

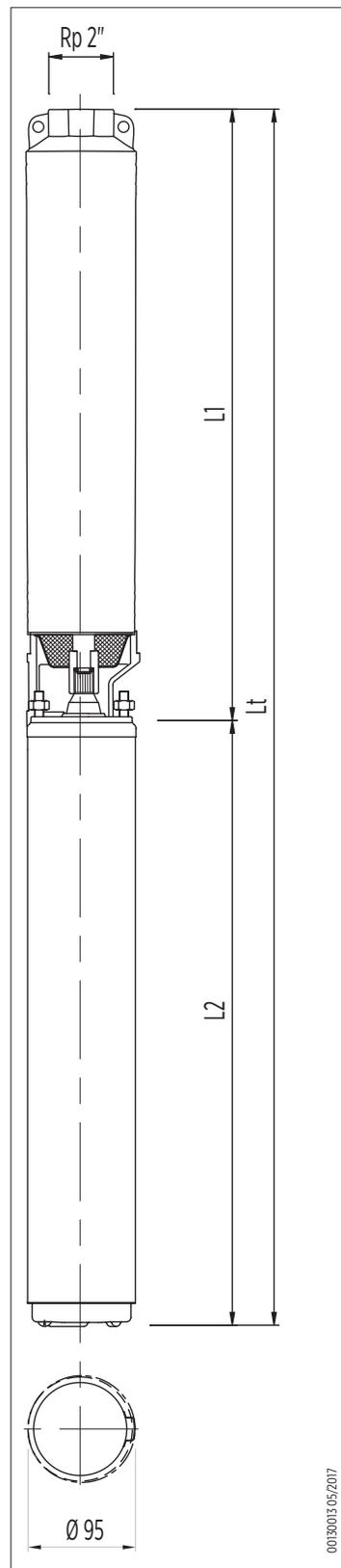
## VS 15 - Technical data

### PUMPS WITH ENCAPSULATED MOTOR

| Pump model            | Motor |      |      | Dimensions[mm] |       |       |        | Weight [kg] |       |       |       |       |       |
|-----------------------|-------|------|------|----------------|-------|-------|--------|-------------|-------|-------|-------|-------|-------|
|                       | Type  | [kW] | [HP] | L1             | L2    |       | Lt     |             | Pump  | Motor |       | Total |       |
|                       |       |      |      |                | 1 -   | 3 -   | 1 -    | 3 -         |       | 1 -   | 3 -   |       |       |
| VS15/08-Y-R20-M4-50DP | CT4   | 2,2  | 3    | 683            | 451,2 | 353,2 | 1134,2 | 1036,2      | 6,07  | 16,65 | 11,05 | 22,72 | 17,12 |
| VS15/10-Y-R20-M4-50DP | CT4   | 3    | 4    | 819            | -     | 408,2 | -      | 1227,2      | 7,17  | -     | 13,55 | -     | 20,72 |
| VS15/13-Y-R20-M4-50DP | CT4   | 4    | 5,5  | 1022           | -     | 543,2 | -      | 1565,2      | 8,83  | -     | 20    | -     | 28,83 |
| VS15/19-Y-R20-M4-50DP | CT4   | 5,5  | 7,5  | 1430           | -     | 652,5 | -      | 2082,5      | 12,17 | -     | 26,6  | -     | 38,77 |
| VS15/25-Y-R20-M4-50DP | CT4   | 7,5  | 10   | 1837           | -     | 730,5 | -      | 2567,5      | 15,53 | -     | 30,6  | -     | 46,13 |

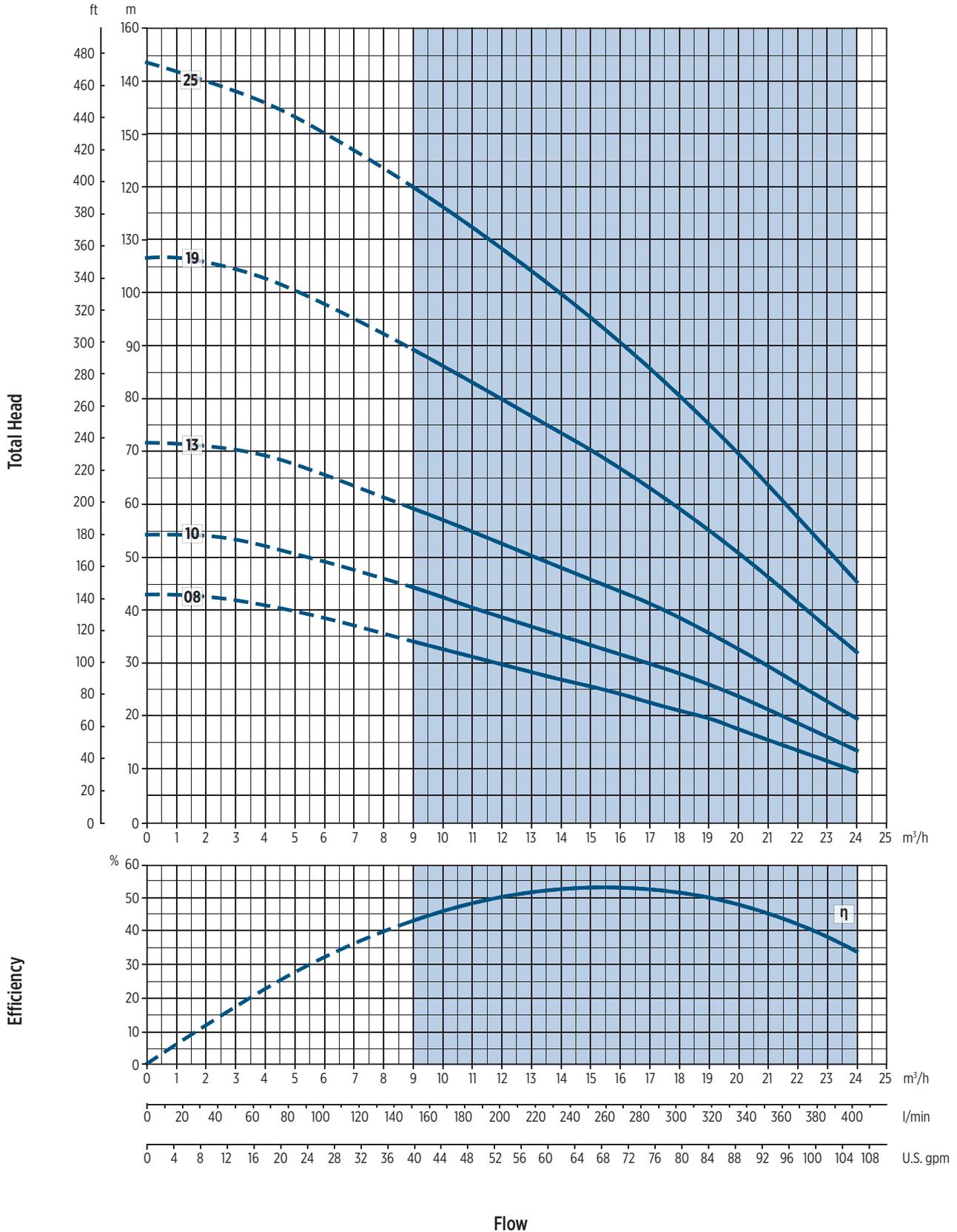
### PUMPS WITH OIL-FILLED MOTOR

| Pump model            | Motor type |      |      | Dimensions [mm] |     |       |      | Weight [kg] |       |       |      |       |      |
|-----------------------|------------|------|------|-----------------|-----|-------|------|-------------|-------|-------|------|-------|------|
|                       | Type       | [kW] | [HP] | L1              | L2  |       | Lt   |             | Pump  | Motor |      | Total |      |
|                       |            |      |      |                 | 1 - | 3 -   | 1 -  | 3 -         |       | 1 -   | 3 -  |       |      |
| VS15/08-Y-R20-M4-50DP | NBS4       | 2,2  | 3    | 683             | 474 | 425   | 1157 | 1108        | 6,07  | 14,1  | 11,6 | 20,2  | 17,7 |
| VS15/10-Y-R20-M4-50DP | NBS4       | 3    | 4    | 819             | 541 | 475,7 | 1360 | 1294,7      | 7,17  | 17    | 14,1 | 24,2  | 21,3 |
| VS15/13-Y-R20-M4-50DP | NBS4       | 4    | 5,5  | 1022            | 636 | 541,7 | 1658 | 1563,7      | 8,83  | 22,7  | 17   | 31,5  | 25,8 |
| VS15/19-Y-R20-M4-50DP | NBS4       | 5,5  | 7,5  | 1430            | -   | 635,7 | -    | 2065,7      | 12,17 | -     | 22,6 | -     | 34,8 |
| VS15/25-Y-R20-M4-50DP | NBS4       | 7,5  | 10   | 1837            | -   | 744,7 | -    | 2581,7      | 15,53 | -     | 28   | -     | 43,5 |



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# VS 15 - Performance curves 2850 rpm - 50 Hz



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