

## 3SL/4SL

### Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

### Operating conditions

Maximum fluid temperature up to +40°C  
Maximum sand content: 0.15%  
3SV minimum well diameter: 3"  
4SV minimum well diameter: 4"

### Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
Equip with start control box or digital auto-control box  
Curve tolerance according to ISO 9906

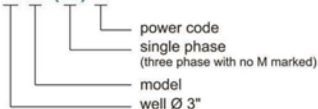
### Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

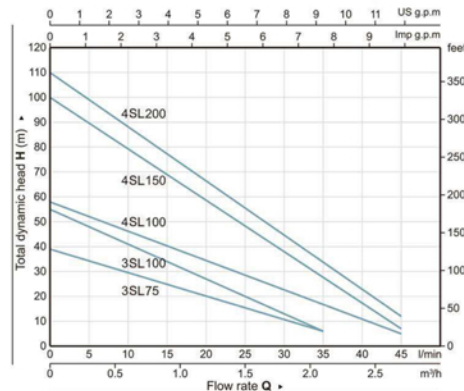
### Warranty: 2 years

(according to our general sales conditions)

### 3 SL (M) 75



| Components            | Material                                       |
|-----------------------|------------------------------------------------|
| Delivery casing       | AISI 304 SS                                    |
| Suction lantern       | AISI 201 SS                                    |
| Diffuser              | AISI 201 SS                                    |
| Impeller              | Cast-Cu ASTM C85500                            |
| Strainer              | AISI 304 SS                                    |
| Motor external casing | AISI 304 SS                                    |
| Top chock             | Cast-Cu ASTM C85500<br>Cast-iron ASTM NO.30    |
| Bottom support        | AISI 304 SS                                    |
| Mechanical seal       | Graphite-Ceramic                               |
| Shaft                 | AISI 304 SS-ASTM 5140                          |
| Seal lubricant oil    | Oil for food machinery and pharmaceutical use. |



### PERFORMANCE DATA 50Hz

| MODEL          |                | P <sub>2</sub> |      | DELIVERY n=2850 1/min |       |     |     |     |     |     |     |     |     |     |     |  |
|----------------|----------------|----------------|------|-----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V | kW             | HP   | Q                     | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 |  |
|                |                |                |      |                       | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  |  |
| 3SLM75         | 3SL75          | 0.55           | 0.75 | H(m)                  |       | 39  | 34  | 30  | 25  | 20  | 15  | 11  | 6   | -   | -   |  |
| 3SLM100        | 3SL100         | 0.75           | 1    |                       |       | 55  | 48  | 41  | 34  | 27  | 20  | 13  | 6   | -   | -   |  |
| 4SLM100        | 4SL100         | 0.75           | 1    |                       |       | 58  | 52  | 46  | 40  | 34  | 28  | 22  | 16  | 10  | 5   |  |
| 4SLM150        | 4SL150         | 1.1            | 1.5  |                       |       | 100 | 89  | 79  | 69  | 59  | 48  | 38  | 28  | 17  | 7   |  |
| 4SLM200        | 4SL200         | 1.5            | 2    |                       |       | 110 | 99  | 88  | 78  | 67  | 56  | 45  | 34  | 23  | 12  |  |

## 2QG

### Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

### Operating conditions

Maximum fluid temperature up to +40°C  
Maximum sand content: 3%  
Minimum well diameter: 2"

### Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
Single phase motor with built-in capacitor  
Curve tolerance according to ISO 9906

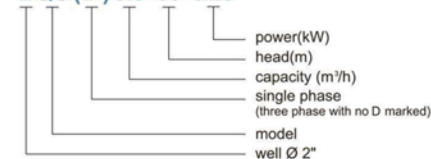
### Options on request

Special mechanical seal  
Other voltages or frequency 60Hz

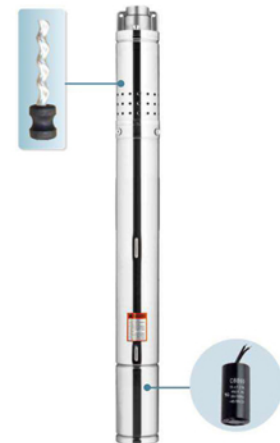
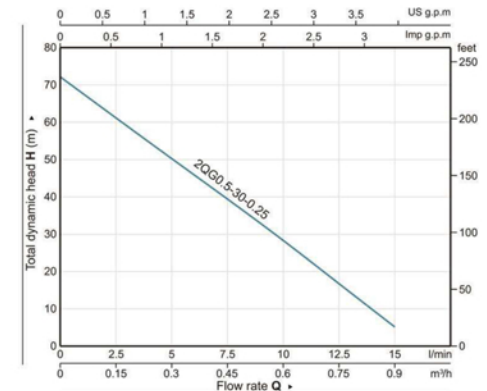
### Warranty: 2 years

(according to our general sales conditions)

### 2 QG (D) 0.5-30-0.25



| Components            | Material                                       |
|-----------------------|------------------------------------------------|
| Delivery casing       | AISI 304 SS                                    |
| Strainer              | AISI 304 SS                                    |
| Motor external casing | AISI 304 SS                                    |
| Top chock             | Cast-iron ASTM NO.30                           |
| Bottom support        | AISI 304 SS                                    |
| Mechanical seal       | Graphite-Ceramic                               |
| Shaft                 | AISI 304 SS-ASTM 5140                          |
| Seal lubricant oil    | Oil for food machinery and pharmaceutical use. |



### PERFORMANCE DATA 50Hz

| MODEL           |                 | P <sub>2</sub> |      | DELIVERY n=2850 1/min |       |    |      |     |      |     |      |     |  |
|-----------------|-----------------|----------------|------|-----------------------|-------|----|------|-----|------|-----|------|-----|--|
| 1 ~ 220 - 240V  | 3 ~ 380 - 415V  | kW             | HP   | Q                     | m³/h  | 0  | 0.15 | 0.3 | 0.45 | 0.6 | 0.75 | 0.9 |  |
|                 |                 |                |      |                       | l/min | 0  | 2.5  | 5   | 7.5  | 10  | 12.5 | 15  |  |
| 2QGD0.5-30-0.25 | 2QGD0.5-30-0.25 | 0.25           | 0.33 | H(m)                  |       | 72 | 60   | 47  | 35   | 25  | 15   | 8   |  |

## 2SL/2.5SL

### Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

### Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
2SL minimum well diameter: 2"  
2.5SL minimum well diameter: 2.5"

### Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
Equip with start control box or digital auto-control box  
Pumps are designed by casing stressed  
Curve tolerance according to ISO 9906

### Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

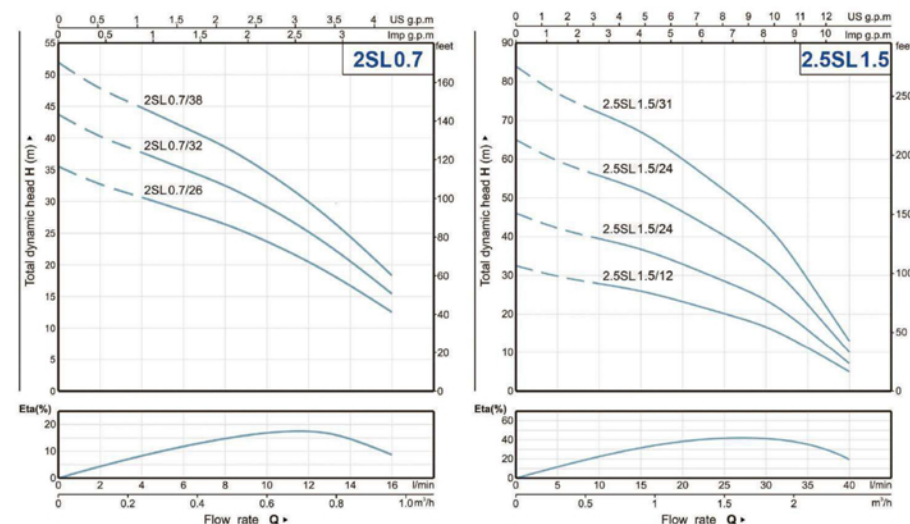
### Warranty: 1 years

(according to our general sales conditions)

| Components            | Material                                        |
|-----------------------|-------------------------------------------------|
| Pump external casing  | AISI 304 SS                                     |
| Delivery casing       | Cast-Cu ASTM C85500                             |
| Suction lantern       | Cast-Cu ASTM C85500                             |
| Diffuser              | Plastic PC                                      |
| Impeller              | Plastic POM                                     |
| Shaft                 | AISI 304 SS                                     |
| Shaft coupling        | AISI 304 SS                                     |
| Wear ring             | AISI 304 SS                                     |
| Motor external casing | AISI 304 SS                                     |
| Top chock             | ①Cast-Cu ASTM C85500<br>②Cast-iron ASTM NO.30   |
| Bottom support        | AISI 304 SS                                     |
| Mechanical seal       | Special seal for deep well(Graphite-Ceramic/TC) |
| Shaft                 | AISI 304 SS-ASTM 5140                           |
| Seal lubricant oil    | Oil for food machinery and pharmaceutic use.    |

2 SL (M) 0.7 / 26 (N)

built-in capacitor  
(outboard capacitor with no N marked)  
impeller's number  
capacity (m³/h)  
single phase  
pump name  
well Ø2"



### PERFORMANCE DATA 50Hz

| MODEL            | P <sub>2</sub> | DELIVERY        | n=2850 1/min                              |
|------------------|----------------|-----------------|-------------------------------------------|
| 1~<br>220 - 240V | kW HP          | Q m³/h<br>l/min | 0 0.12 0.24 0.36 0.48 0.60 0.72 0.84 0.96 |
| 2SLM0.7/26       | 0.18 0.25      | H(m)            | 35 32 30 28 26 23 20 16 12                |
| 2SLM0.7/32       | 0.25 0.33      |                 | 43 40 37 35 32 29 24 20 15                |
| 2SLM0.7/38       | 0.37 0.5       |                 | 51 47 44 41 38 34 29 24 18                |

### PERFORMANCE DATA 50Hz

| MODEL            | P <sub>2</sub> | DELIVERY        | n=2850 1/min                      |
|------------------|----------------|-----------------|-----------------------------------|
| 1~<br>220 - 240V | kW HP          | Q m³/h<br>l/min | 0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 |
| 2.5SLM1.5/12     | 0.25 0.33      | H(m)            | 33 30 28 26 23 20 17 11 5         |
| 2.5SLM1.5/17     | 0.37 0.5       |                 | 46 42 39 37 33 29 24 16 7         |
| 2.5SLM1.5/24     | 0.55 0.75      |                 | 65 60 56 52 46 40 33 22 10        |
| 2.5SLM1.5/31     | 0.75 1         |                 | 84 77 72 67 60 52 43 29 13        |

### DIMENSION AND WEIGHT

| MODEL            | DN      | DIMENSION(mm) | WEIGHT(kg)   | PUMP   |
|------------------|---------|---------------|--------------|--------|
| 1~<br>220 - 240V |         | P M T         | P M T        | D1 øD2 |
| 2SLM0.7/26       | ½" 1 ¾" | 778 499 1277  | 2.0 4.3 6.3  | 51 ø50 |
| 2SLM0.7/32       | ½" 1 ¾" | 942 499 1441  | 2.3 4.3 6.6  |        |
| 2SLM0.7/38       | ½" 1 ¾" | 1084 499 1583 | 2.6 4.3 6.9  |        |
| 2.5SLM1.5/12     | 1"      | 437 445 882   | 3.3 6.9 10.2 |        |
| 2.5SLM1.5/17     | 1"      | 570 578 1148  | 3.8 7.6 11.4 |        |
| 2.5SLM1.5/24     | 1"      | 779 787 1546  | 4.1 8.2 12.3 |        |
| 2.5SLM1.5/31     | 1"      | 993 1001 1994 | 4.4 8.9 13.3 | 66 ø65 |



## 3SL

### Applications

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### Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
Minimum well diameter: 3"

### Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
Equip with start control box or digital auto-control box  
Pumps are designed by casing stressed  
Curve tolerance according to ISO 9906

### Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

### Warranty: 1 years

(according to our general sales conditions)

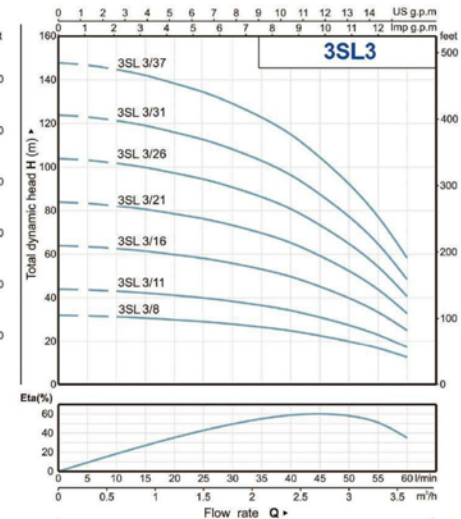
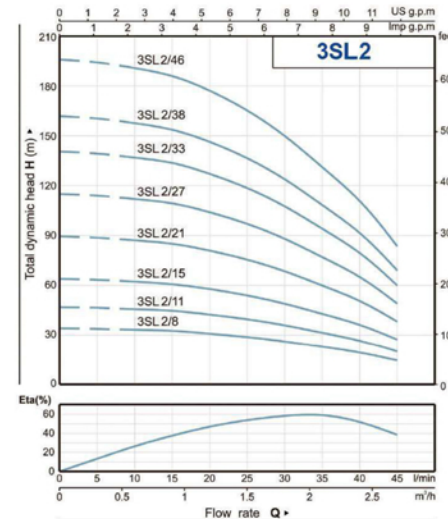


3SL

3 SL (M) 2 / 8 (N)

built-in capacitor  
(outboard capacitor with no N marked)  
impeller's number  
capacity (m³/h)  
single phase  
(three phase with no M marked)  
pump name  
well Ø 3"

| Components            | Material                                        |
|-----------------------|-------------------------------------------------|
| Pump external casing  | AISI 304 SS                                     |
| Delivery casing       | ① Cast-Cu ASTM C85500 ② AISI 304 SS             |
| Suction lantern       | ① Cast-Cu ASTM C85500 ② AISI 304 SS             |
| Diffuser              | Plastic PC                                      |
| Impeller              | Plastic POM                                     |
| Shaft                 | AISI 304 SS                                     |
| Shaft coupling        | AISI 304 SS                                     |
| Wear ring             | AISI 304 SS                                     |
| Motor external casing | AISI 304 SS                                     |
| Top chock             | ① Cast-Cu ASTM C85500<br>② Cast-Iron ASTM NO.30 |
| Bottom support        | AISI 304 SS                                     |
| Mechanical seal       | Special seal for deep well(Graphite-Ceramic/TC) |
| Shaft                 | AISI 304 SS-ASTM 5140                           |
| Seal lubricant oil    | Oil for food machinery and pharmaceutic use.    |



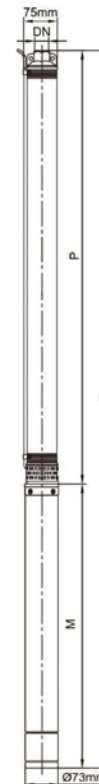
### PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |       |     |     |     |     |     |     |     |     |     |     |  |  |
|------------------|------------------|----------------|------|-----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 |  |  |
|                  |                  |                |      |                       | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  |  |  |
| 3SLM2/8          | 3SL2/8           | 0.18           | 0.25 | H(m)                  | 34    | 34  | 33  | 33  | 31  | 29  | 26  | 23  | 19  | 14  |     |  |  |
| 3SLM2/11         | 3SL2/11          | 0.25           | 0.33 |                       | 47    | 46  | 45  | 45  | 43  | 40  | 36  | 32  | 27  | 20  |     |  |  |
| 3SLM2/15         | 3SL2/15          | 0.37           | 0.5  |                       | 64    | 63  | 62  | 61  | 58  | 54  | 49  | 43  | 36  | 27  |     |  |  |
| 3SLM2/21         | 3SL2/21          | 0.55           | 0.75 |                       | 89    | 89  | 87  | 85  | 81  | 76  | 68  | 60  | 51  | 38  |     |  |  |
| 3SLM2/27         | 3SL2/27          | 0.75           | 1    |                       | 115   | 114 | 112 | 110 | 104 | 97  | 88  | 77  | 65  | 49  |     |  |  |
| 3SLM2/33         | 3SL2/33          | 0.92           | 1.25 |                       | 141   | 139 | 136 | 134 | 128 | 119 | 108 | 95  | 80  | 60  |     |  |  |
| 3SLM2/38         | 3SL2/38          | 1.1            | 1.5  |                       | 162   | 160 | 157 | 154 | 147 | 137 | 124 | 109 | 92  | 69  |     |  |  |
| 3SLM2/46         | 3SL2/46          | 1.5            | 2    |                       | 196   | 194 | 190 | 187 | 178 | 166 | 150 | 132 | 111 | 83  |     |  |  |

### PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |       |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|------------------|------------------|----------------|------|-----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 | 3.6 |  |
|                  |                  |                |      |                       | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 55  | 60  |  |
| 3SLM3/8          | 3SL3/8           | 0.25           | 0.33 | H(m)                  | 32    | 32  | 32  | 31  | 30  | 29  | 28  | 27  | 26  | 23  | 20  | 16  | 12  |     |  |
| 3SLM3/11         | 3SL3/11          | 0.37           | 0.5  |                       | 44    | 44  | 43  | 43  | 41  | 40  | 39  | 37  | 35  | 31  | 27  | 22  | 16  |     |  |
| 3SLM3/16         | 3SL3/16          | 0.55           | 0.75 |                       | 64    | 64  | 63  | 62  | 60  | 59  | 56  | 54  | 51  | 45  | 39  | 32  | 23  |     |  |
| 3SLM3/21         | 3SL3/21          | 0.75           | 1    |                       | 85    | 84  | 83  | 81  | 79  | 77  | 74  | 70  | 67  | 60  | 52  | 43  | 31  |     |  |
| 3SLM3/26         | 3SL3/26          | 0.92           | 1.25 |                       | 105   | 104 | 103 | 100 | 98  | 96  | 91  | 87  | 83  | 74  | 64  | 53  | 38  |     |  |
| 3SLM3/31         | 3SL3/31          | 1.1            | 1.5  |                       | 125   | 124 | 122 | 120 | 116 | 114 | 109 | 104 | 99  | 88  | 76  | 63  | 45  |     |  |
| 3SLM3/37         | 3SL3/37          | 1.5            | 2    |                       | 149   | 148 | 146 | 143 | 139 | 136 | 130 | 124 | 118 | 105 | 91  | 75  | 54  |     |  |





| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |     |     |     |     |     |     |     |     |     |     |  |  |
|------------------|------------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q<br>m³/h<br>l/min    | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 |  |  |
|                  |                  |                |      |                       | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  |  |  |
| 3SLM4/6          | 3SL4/6           | 0.25           | 0.33 | H(m)                  | 25  | 25  | 24  | 23  | 22  | 21  | 19  | 16  | 13  | 8   |  |  |
| 3SLM4/9          | 3SL4/9           | 0.37           | 0.5  |                       | 37  | 37  | 36  | 35  | 33  | 32  | 28  | 24  | 19  | 12  |  |  |
| 3SLM4/12         | 3SL4/12          | 0.55           | 0.75 |                       | 49  | 49  | 48  | 47  | 45  | 42  | 37  | 32  | 25  | 15  |  |  |
| 3SLM4/16         | 3SL4/16          | 0.75           | 1    |                       | 66  | 66  | 65  | 62  | 59  | 56  | 50  | 42  | 34  | 21  |  |  |
| 3SLM4/20         | 3SL4/20          | 0.92           | 1.25 |                       | 82  | 82  | 81  | 78  | 74  | 70  | 62  | 53  | 42  | 25  |  |  |
| 3SLM4/24         | 3SL4/24          | 1.1            | 1.5  |                       | 99  | 99  | 97  | 93  | 89  | 84  | 75  | 63  | 51  | 31  |  |  |
| 3SLM4/28         | 3SL4/28          | 1.5            | 2    |                       | 115 | 115 | 113 | 109 | 104 | 98  | 87  | 74  | 59  | 36  |  |  |

| MODEL             |                   | DN          | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|-------------------|-------------------|-------------|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~<br>220 - 240V | 3 ~<br>380 - 415V |             | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 3SLM2/8           | 3SL2/8            | 1"1/4"1/16" | 377           | 288  | 288  | 665  | 665  | 1.8        | 4.0  | 4.0  | 5.8  | 5.8  |
| 3SLM2/11          | 3SL2/11           | 1"1/4"1/16" | 444           | 308  | 288  | 752  | 752  | 2.1        | 4.8  | 4.0  | 6.9  | 6.1  |
| 3SLM2/15          | 3SL2/15           | 1"1/4"1/16" | 535           | 338  | 308  | 873  | 873  | 2.4        | 5.6  | 4.8  | 8.0  | 7.2  |
| 3SLM2/21          | 3SL2/21           | 1"1/4"1/16" | 694           | 368  | 338  | 1062 | 1032 | 3.2        | 6.4  | 5.6  | 9.6  | 8.8  |
| 3SLM2/27          | 3SL2/27           | 1"1/4"1/16" | 830           | 408  | 368  | 1238 | 1198 | 3.5        | 7.5  | 6.4  | 11.0 | 9.9  |
| 3SLM2/33          | 3SL2/33           | 1"1/4"1/16" | 966           | 448  | 408  | 1414 | 1375 | 4.3        | 8.7  | 7.5  | 13.0 | 11.8 |
| 3SLM2/38          | 3SL2/38           | 1"1/4"1/16" | 1101          | 493  | 448  | 1594 | 1549 | 4.9        | 10.0 | 8.7  | 14.9 | 13.6 |
| 3SLM2/46          | 3SL2/46           | 1"1/4"1/16" | 1306          | 543  | 493  | 1849 | 1799 | 5.8        | 11.3 | 10.0 | 17.1 | 15.4 |

| MODEL             |                   | DN          | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|-------------------|-------------------|-------------|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~<br>220 ~ 240V | 3 ~<br>380 ~ 415V |             | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 3SLM3/8           | 3SL3/8            | 1"1/4"1/16" | 405           | 308  | 288  | 713  | 693  | 1.8        | 4.8  | 4.0  | 6.6  | 5.8  |
| 3SLM3/11          | 3SL3/11           | 1"1/4"1/16" | 483           | 338  | 308  | 821  | 791  | 2.1        | 5.6  | 4.8  | 7.7  | 6.9  |
| 3SLM3/16          | 3SL3/16           | 1"1/4"1/16" | 613           | 368  | 338  | 981  | 951  | 2.5        | 6.4  | 5.6  | 8.9  | 8.1  |
| 3SLM3/21          | 3SL3/21           | 1"1/4"1/16" | 768           | 408  | 368  | 1176 | 1136 | 3.2        | 7.5  | 6.4  | 10.7 | 9.6  |
| 3SLM3/26          | 3SL3/26           | 1"1/4"1/16" | 898           | 448  | 408  | 1346 | 1306 | 3.7        | 8.7  | 6.4  | 12.4 | 11.1 |
| 3SLM3/31          | 3SL3/31           | 1"1/4"1/16" | 1029          | 493  | 448  | 1522 | 1472 | 4.1        | 10.0 | 7.5  | 14.1 | 12.8 |
| 3SLM3/37          | 3SL3/37           | 1"1/4"1/16" | 1209          | 543  | 493  | 1752 | 1702 | 4.7        | 11.3 | 10.0 | 16.0 | 14.4 |

| MODEL             |                   | DN         | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|-------------------|-------------------|------------|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~<br>220 ~ 240V | 3 ~<br>380 ~ 415V |            | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 3SLM4/6           | 3SL4/6            | 1"/1¼"/1½" | 397           | 308  | 288  | 705  | 685  | 1.7        | 4.8  | 4.0  | 6.6  | 5.7  |
| 3SLM4/9           | 3SL4/9            | 1"/1¼"/1½" | 498           | 338  | 308  | 836  | 806  | 2.0        | 5.6  | 4.8  | 7.6  | 6.8  |
| 3SLM4/12          | 3SL4/12           | 1"/1¼"/1½" | 599           | 368  | 338  | 967  | 937  | 2.3        | 6.4  | 5.6  | 8.7  | 7.9  |
| 3SLM4/16          | 3SL4/16           | 1"/1¼"/1½" | 757           | 408  | 368  | 1165 | 1125 | 2.8        | 7.5  | 6.4  | 10.3 | 9.2  |
| 3SLM4/20          | 3SL4/20           | 1"/1¼"/1½" | 892           | 448  | 408  | 1340 | 1300 | 3.4        | 8.7  | 7.5  | 12.1 | 10.9 |
| 3SLM4/24          | 3SL4/24           | 1"/1¼"/1½" | 1026          | 493  | 448  | 1519 | 1479 | 3.9        | 10.0 | 8.7  | 13.9 | 12.6 |
| 3SLM4/28          | 3SL4/28           | 1"/1½"/1½" | 1184          | 543  | 493  | 1727 | 1677 | 4.3        | 11.3 | 10.0 | 15.6 | 14.3 |



4SL

Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
Minimum well diameter: 4"

Motor and Pump

Rewindable motor  
Single-phase: 220 - 240V/50Hz  
Three-phase: 380 - 415V/50Hz  
Equip with start control box or digital auto-control box  
Pumps are designed by casing stressed  
NEMA dimension standards  
Curve tolerance according to ISO 9906

Options on request

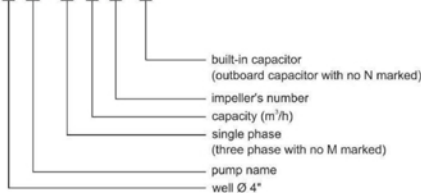
Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

Warranty: 1 years

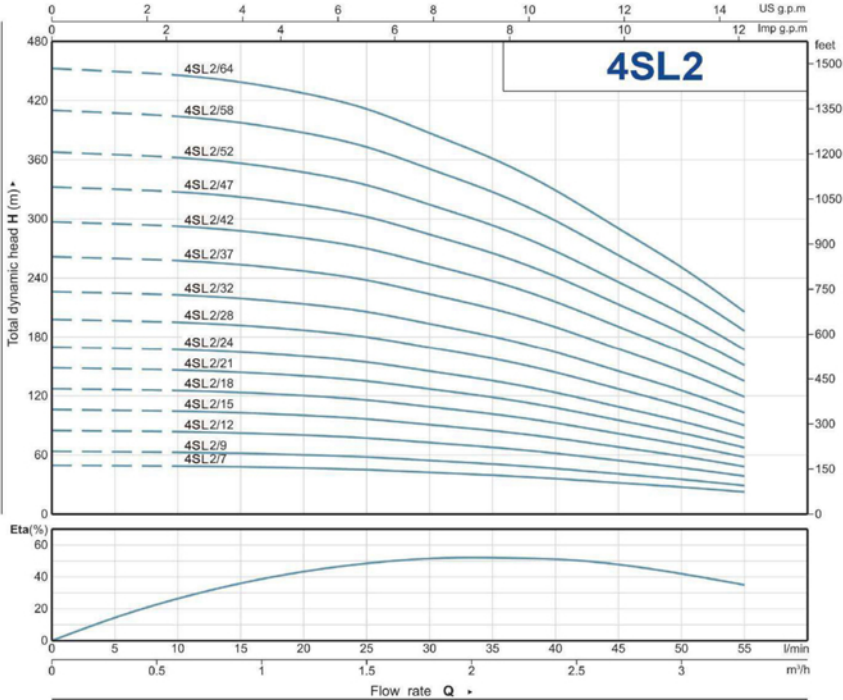
(according to our general sales conditions)

| Components            | Material                                     |
|-----------------------|----------------------------------------------|
| Pump external casing  | AISI 304 SS                                  |
| Delivery casing       | ①Cast-Cu ASTM C85500 ②AISI 304 SS            |
| Suction lantern       | ①Cast-Cu ASTM C85500 ②AISI 304 SS            |
| Diffuser              | Plastic PC                                   |
| Impeller              | Plastic POM                                  |
| Shaft                 | AISI 304 SS                                  |
| Shaft coupling        | AISI 304 SS                                  |
| Wear ring             | AISI 304 SS                                  |
| Motor external casing | AISI 304 SS                                  |
| Top chock             | ①Cast-Cu ASTM C85500 ②AISI 420 SS            |
| Bottom support        | AISI 304 SS                                  |
| Mechanical seal       | Special seal for deep well(Graphite-Ceramic) |
| Shaft                 | AISI 304 SS-ASTM 5140                        |
| Seal lubricant oil    | Oil for food machinery and pharmaceutic use. |

4 SL (M) 2 / 7 (N)

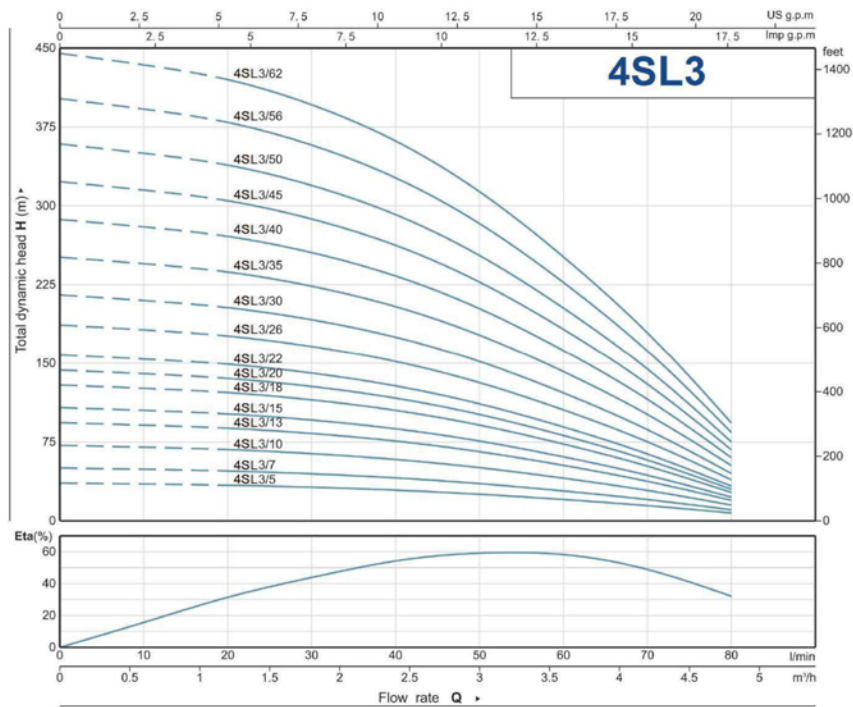


4SL



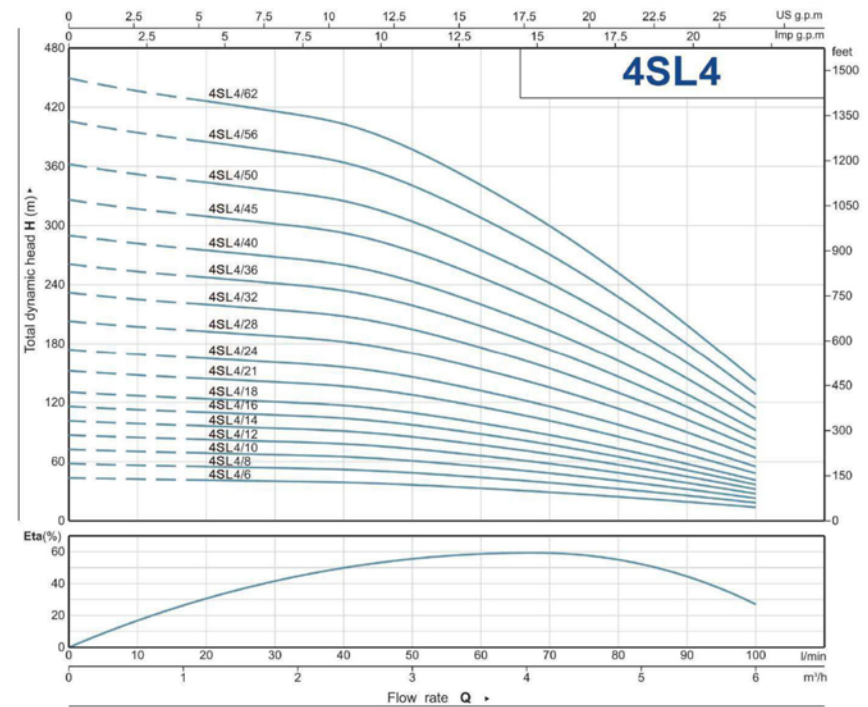
PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |       |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|------------------|------------------|----------------|------|-----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 |  |  |  |
|                  |                  |                |      |                       | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 55  |  |  |  |
| 4SLM2/7          | 4SL2/7           | 0.25           | 0.33 | H(m)                  | 50    | 49  | 49  | 48  | 47  | 45  | 42  | 39  | 36  | 32  | 27  | 22  |     |  |  |  |
| 4SLM2/9          | 4SL2/9           | 0.37           | 0.5  |                       | 64    | 63  | 63  | 62  | 60  | 58  | 54  | 51  | 47  | 41  | 35  | 29  |     |  |  |  |
| 4SLM2/12         | 4SL2/12          | 0.55           | 0.75 |                       | 85    | 84  | 84  | 83  | 80  | 77  | 72  | 68  | 62  | 54  | 47  | 38  |     |  |  |  |
| 4SLM2/15         | 4SL2/15          | 0.75           | 1    |                       | 106   | 105 | 105 | 103 | 100 | 96  | 90  | 85  | 78  | 68  | 59  | 48  |     |  |  |  |
| 4SLM2/18         | 4SL2/18          | 0.92           | 1.25 |                       | 127   | 126 | 125 | 124 | 120 | 116 | 108 | 102 | 93  | 82  | 71  | 58  |     |  |  |  |
| 4SLM2/21         | 4SL2/21          | 1.1            | 1.5  |                       | 149   | 147 | 146 | 145 | 140 | 135 | 126 | 118 | 109 | 95  | 82  | 67  |     |  |  |  |
| 4SLM2/24         | 4SL2/24          | 1.3            | 1.75 |                       | 170   | 168 | 167 | 165 | 160 | 154 | 144 | 135 | 124 | 109 | 94  | 77  |     |  |  |  |
| 4SLM2/28         | 4SL2/28          | 1.5            | 2    |                       | 198   | 196 | 195 | 193 | 187 | 180 | 168 | 158 | 145 | 127 | 110 | 90  |     |  |  |  |
| 4SLM2/32         | 4SL2/32          | 1.8            | 2.5  |                       | 227   | 224 | 223 | 221 | 214 | 206 | 192 | 181 | 166 | 145 | 126 | 103 |     |  |  |  |
| 4SLM2/37         | 4SL2/37          | 2.2            | 3    |                       | 262   | 259 | 258 | 255 | 247 | 238 | 222 | 209 | 191 | 168 | 145 | 119 |     |  |  |  |
| 4SLM2/42         | 4SL2/42          | 2.6            | 3.5  |                       | 297   | 294 | 293 | 289 | 280 | 270 | 252 | 237 | 217 | 190 | 165 | 135 |     |  |  |  |
| -                | 4SL2/47          | 3              | 4    |                       | 333   | 329 | 328 | 324 | 314 | 302 | 282 | 265 | 243 | 213 | 184 | 151 |     |  |  |  |
| -                | 4SL2/52          | 3.7            | 5    |                       | 368   | 364 | 362 | 358 | 347 | 334 | 312 | 293 | 269 | 236 | 204 | 167 |     |  |  |  |
| -                | 4SL2/58          | 4              | 5.5  |                       | 411   | 406 | 404 | 400 | 387 | 372 | 348 | 327 | 300 | 263 | 227 | 186 |     |  |  |  |
| -                | 4SL2/64          | 5              | 7    |                       | 453   | 448 | 446 | 441 | 427 | 411 | 384 | 361 | 331 | 290 | 251 | 205 |     |  |  |  |



## PERFORMANCE DATA 50Hz

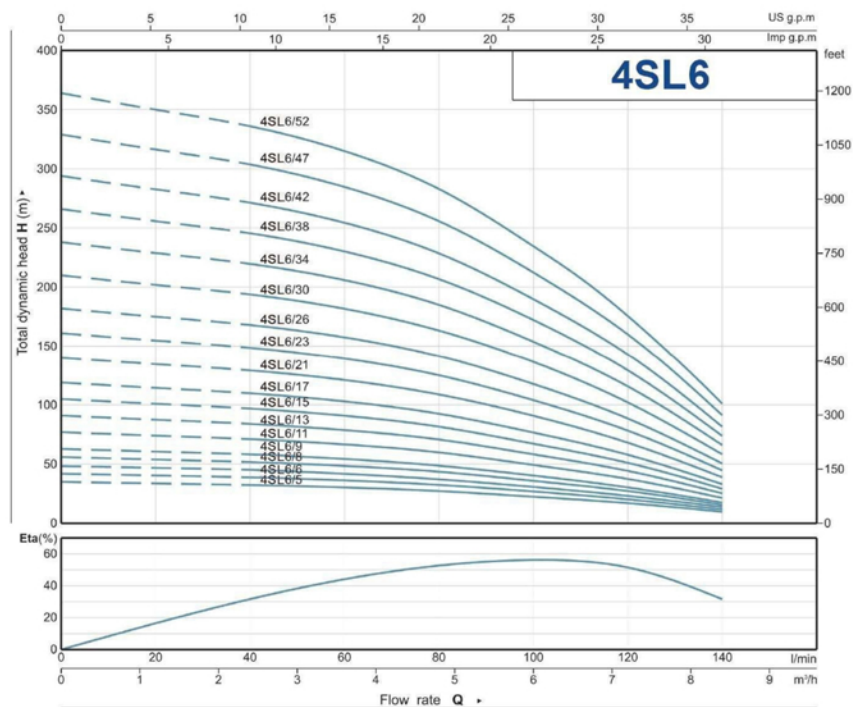
| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |               |     |     |     |     |     |     |     |     |     |
|------------------|------------------|----------------|------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h<br>l/min | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 |
|                  |                  |                |      |                       |               | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  |
| 4SLM3/5          | 4SL3/5           | 0.25           | 0.33 | H(m)                  |               | 36  | 35  | 34  | 32  | 29  | 25  | 20  | 14  | 7   |
| 4SLM3/7          | 4SL3/7           | 0.37           | 0.5  |                       |               | 50  | 49  | 47  | 45  | 41  | 35  | 28  | 20  | 10  |
| 4SLM3/10         | 4SL3/10          | 0.55           | 0.75 |                       |               | 72  | 70  | 68  | 64  | 58  | 50  | 40  | 29  | 15  |
| 4SLM3/13         | 4SL3/13          | 0.75           | 1    |                       |               | 93  | 91  | 88  | 83  | 76  | 66  | 53  | 38  | 19  |
| 4SLM3/15         | 4SL3/15          | 0.92           | 1.25 |                       |               | 108 | 105 | 102 | 96  | 88  | 76  | 61  | 43  | 22  |
| 4SLM3/18         | 4SL3/18          | 1.1            | 1.5  |                       |               | 129 | 126 | 122 | 115 | 105 | 91  | 73  | 52  | 27  |
| 4SLM3/20         | 4SL3/20          | 1.3            | 1.75 |                       |               | 144 | 140 | 135 | 128 | 117 | 101 | 81  | 58  | 30  |
| 4SLM3/22         | 4SL3/22          | 1.5            | 2    |                       |               | 158 | 154 | 149 | 141 | 128 | 111 | 89  | 64  | 33  |
| 4SLM3/26         | 4SL3/26          | 1.8            | 2.5  |                       |               | 187 | 182 | 176 | 166 | 152 | 131 | 105 | 75  | 39  |
| 4SLM3/30         | 4SL3/30          | 2.2            | 3    |                       |               | 215 | 210 | 203 | 192 | 175 | 151 | 121 | 87  | 45  |
| 4SLM3/35         | 4SL3/35          | 2.6            | 3.5  |                       |               | 251 | 245 | 237 | 224 | 204 | 177 | 142 | 101 | 52  |
| -                | 4SL3/40          | 3              | 4    |                       |               | 287 | 280 | 271 | 255 | 234 | 202 | 162 | 115 | 60  |
| -                | 4SL3/45          | 3.7            | 5    |                       |               | 323 | 315 | 305 | 287 | 263 | 227 | 182 | 130 | 67  |
| -                | 4SL3/50          | 4              | 5.5  |                       |               | 359 | 350 | 339 | 319 | 292 | 252 | 202 | 144 | 75  |
| -                | 4SL3/56          | 5              | 7    |                       |               | 402 | 392 | 379 | 358 | 327 | 283 | 227 | 162 | 84  |
| -                | 4SL3/62          | 5.5            | 7.5  |                       |               | 445 | 434 | 420 | 396 | 362 | 313 | 251 | 179 | 93  |



## PERFORMANCE DATA 50Hz

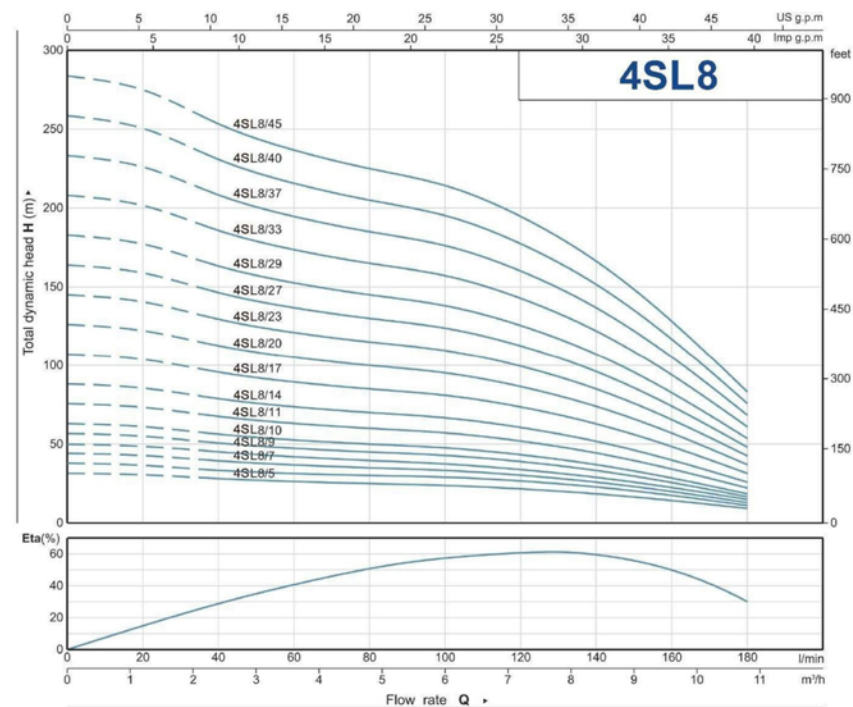
| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n=2850 1/min |       |     |     |     |     |     |     |     |     |     |     |     |  |
|------------------|------------------|----------------|------|-----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h  | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 |  |
|                  |                  |                |      |                       | l/min | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100 |  |
| 4SLM4/6          | 4SL4/6           | 0.37           | 0.5  | H(m)                  | 44    | 42  | 41  | 40  | 39  | 36  | 33  | 29  | 24  | 19  | 14  |     |  |
| 4SLM4/8          | 4SL4/8           | 0.55           | 0.75 |                       | 58    | 56  | 55  | 54  | 52  | 49  | 44  | 39  | 33  | 26  | 18  |     |  |
| 4SLM4/10         | 4SL4/10          | 0.75           | 1    |                       | 73    | 70  | 69  | 67  | 65  | 61  | 55  | 48  | 41  | 32  | 23  |     |  |
| 4SLM4/12         | 4SL4/12          | 0.92           | 1.25 |                       | 87    | 84  | 82  | 81  | 78  | 73  | 66  | 58  | 49  | 39  | 27  |     |  |
| 4SLM4/14         | 4SL4/14          | 1.1            | 1.5  |                       | 102   | 98  | 96  | 94  | 91  | 85  | 77  | 68  | 57  | 45  | 32  |     |  |
| 4SLM4/16         | 4SL4/16          | 1.3            | 1.75 |                       | 116   | 113 | 110 | 107 | 104 | 97  | 88  | 77  | 65  | 51  | 37  |     |  |
| 4SLM4/18         | 4SL4/18          | 1.5            | 2    |                       | 131   | 127 | 124 | 121 | 117 | 109 | 99  | 87  | 73  | 58  | 41  |     |  |
| 4SLM4/21         | 4SL4/21          | 1.8            | 2.5  |                       | 152   | 148 | 144 | 141 | 136 | 128 | 115 | 102 | 85  | 67  | 48  |     |  |
| 4SLM4/24         | 4SL4/24          | 2.2            | 3    |                       | 174   | 169 | 165 | 161 | 156 | 146 | 132 | 116 | 98  | 77  | 55  |     |  |
| 4SLM4/28         | 4SL4/28          | 2.6            | 3.5  |                       | 203   | 197 | 192 | 188 | 182 | 170 | 154 | 135 | 114 | 90  | 64  |     |  |
| -                | 4SL4/32          | 3              | 4    |                       | 232   | 225 | 220 | 215 | 208 | 195 | 176 | 155 | 130 | 103 | 73  |     |  |
| -                | 4SL4/36          | 3.7            | 5    |                       | 261   | 253 | 247 | 242 | 234 | 219 | 198 | 174 | 146 | 116 | 82  |     |  |
| -                | 4SL4/40          | 4              | 5.5  |                       | 290   | 281 | 275 | 268 | 260 | 243 | 220 | 194 | 163 | 128 | 92  |     |  |
| -                | 4SL4/45          | 5              | 7    |                       | 327   | 316 | 309 | 302 | 293 | 274 | 248 | 218 | 183 | 144 | 103 |     |  |
| -                | 4SL4/50          | 5.5            | 7.5  |                       | 363   | 352 | 344 | 335 | 325 | 304 | 275 | 242 | 203 | 160 | 115 |     |  |
| -                | 4SL4/56          | 7              | 10   |                       | 406   | 394 | 385 | 376 | 364 | 341 | 308 | 271 | 228 | 180 | 128 |     |  |
| -                | 4SL4/62          | 7.5            | 10   |                       | 450   | 436 | 426 | 416 | 403 | 377 | 341 | 300 | 252 | 199 | 142 |     |  |





PERFORMANCE DATA 50Hz

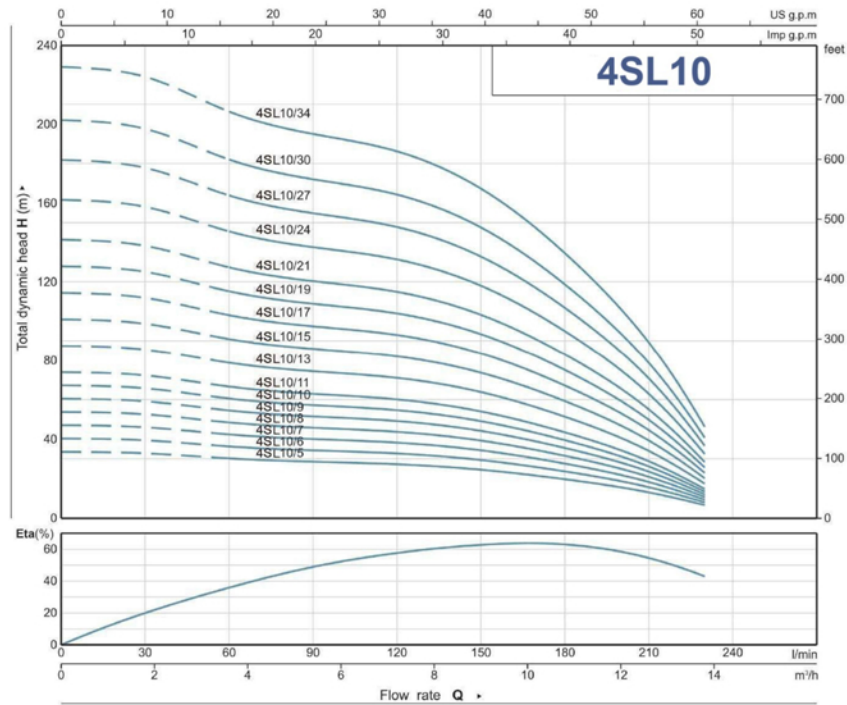
| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |     |     |     |     |     |     |     |     |  |
|------------------|------------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | 0   | 1.2 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 8.4 |  |
|                  |                  |                |      | m³/h<br>l/min         | 0   | 20  | 40  | 60  | 80  | 100 | 120 | 140 |  |
| 4SLM6/5          | 4SL6/5           | 0.37           | 0.5  | H(m)                  | 35  | 34  | 32  | 30  | 27  | 22  | 17  | 10  |  |
| 4SLM6/6          | 4SL6/6           | 0.55           | 0.75 |                       | 42  | 40  | 39  | 36  | 33  | 27  | 20  | 12  |  |
| 4SLM6/7          | 4SL6/7           | 0.75           | 1    |                       | 49  | 47  | 45  | 42  | 38  | 31  | 24  | 14  |  |
| 4SLM6/8          | 4SL6/8           | 0.75           | 1    |                       | 56  | 54  | 52  | 48  | 44  | 36  | 27  | 16  |  |
| 4SLM6/9          | 4SL6/9           | 0.92           | 1.25 |                       | 63  | 61  | 58  | 55  | 49  | 40  | 31  | 17  |  |
| 4SLM6/11         | 4SL6/11          | 1.1            | 1.5  |                       | 77  | 76  | 71  | 67  | 61  | 49  | 37  | 21  |  |
| 4SLM6/13         | 4SL6/13          | 1.3            | 1.75 |                       | 91  | 88  | 84  | 79  | 71  | 58  | 44  | 25  |  |
| 4SLM6/15         | 4SL6/15          | 1.5            | 2    |                       | 105 | 104 | 97  | 91  | 83  | 67  | 51  | 29  |  |
| 4SLM6/17         | 4SL6/17          | 1.8            | 2.5  |                       | 119 | 114 | 110 | 103 | 93  | 76  | 58  | 33  |  |
| 4SLM6/21         | 4SL6/21          | 2.2            | 3    |                       | 149 | 145 | 129 | 121 | 116 | 90  | 68  | 40  |  |
| 4SLM6/23         | 4SL6/23          | 2.6            | 3.5  |                       | 161 | 155 | 149 | 139 | 125 | 103 | 78  | 45  |  |
| -                | 4SL6/26          | 3              | 4    |                       | 182 | 175 | 168 | 158 | 142 | 117 | 88  | 51  |  |
| -                | 4SL6/30          | 3.7            | 5    |                       | 210 | 202 | 194 | 182 | 163 | 134 | 102 | 58  |  |
| -                | 4SL6/34          | 4              | 5.5  |                       | 238 | 229 | 220 | 206 | 185 | 152 | 116 | 66  |  |
| -                | 4SL6/38          | 5              | 7    |                       | 266 | 256 | 246 | 230 | 207 | 170 | 129 | 74  |  |
| -                | 4SL6/42          | 5.5            | 7.5  |                       | 294 | 283 | 271 | 254 | 229 | 188 | 143 | 82  |  |
| -                | 4SL6/47          | 7              | 10   |                       | 329 | 316 | 304 | 285 | 256 | 211 | 160 | 91  |  |
| -                | 4SL6/52          | 7.5            | 10   |                       | 364 | 350 | 336 | 315 | 283 | 233 | 177 | 101 |  |



PERFORMANCE DATA 50Hz

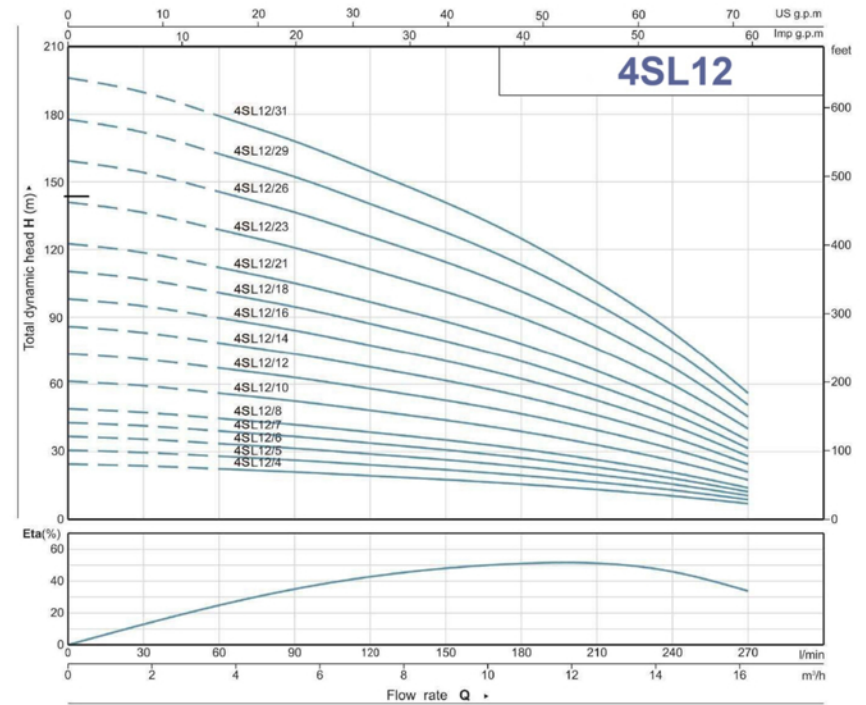
| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |     |     |     |     |     |     |     |     |     |      |      |  |  |
|------------------|------------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | 0   | 1.2 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 8.4 | 9.6 | 10.8 | 12.0 |  |  |
|                  |                  |                |      | m³/h<br>l/min         | 0   | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180  | 200  |  |  |
| 4SLM8/5          | 4SL 8/5          | 0.55           | 0.75 | H(m)                  | 35  | 34  | 32  | 31  | 29  | 28  | 26  | 23  | 19  | 15   | 10   |  |  |
| 4SLM8/6          | 4SL 8/6          | 0.75           | 1    |                       | 42  | 41  | 39  | 37  | 35  | 34  | 31  | 27  | 23  | 18   | 12   |  |  |
| 4SLM8/7          | -                | 0.92           | 1.25 |                       | 49  | 48  | 45  | 43  | 41  | 39  | 36  | 32  | 27  | 20   | 14   |  |  |
| 4SLM8/8          | 4SL 8/8          | 1.1            | 1.5  |                       | 56  | 55  | 52  | 49  | 47  | 45  | 41  | 36  | 31  | 23   | 16   |  |  |
| 4SLM8/9          | -                | 1.3            | 1.75 |                       | 63  | 62  | 58  | 55  | 53  | 50  | 46  | 41  | 34  | 26   | 18   |  |  |
| 4SLM8/11         | 4SL 8/11         | 1.5            | 2    |                       | 77  | 76  | 71  | 67  | 65  | 62  | 57  | 50  | 42  | 32   | 22   |  |  |
| 4SLM8/13         | -                | 1.8            | 2.5  |                       | 91  | 89  | 84  | 79  | 76  | 73  | 67  | 59  | 50  | 38   | 26   |  |  |
| 4SLM8/15         | 4SL 8/15         | 2.2            | 3    |                       | 105 | 103 | 97  | 92  | 88  | 84  | 77  | 68  | 57  | 44   | 30   |  |  |
| 4SLM8/18         | 4SL 8/18         | 2.6            | 3.5  |                       | 126 | 124 | 117 | 110 | 106 | 101 | 93  | 82  | 69  | 53   | 36   |  |  |
| 4SLM8/21         | 4SL 8/21         | 3              | 4    |                       | 146 | 144 | 136 | 128 | 123 | 118 | 108 | 96  | 80  | 61   | 41   |  |  |
| -                | 4SL 8/27         | 4              | 5.5  |                       | 188 | 186 | 175 | 165 | 159 | 151 | 139 | 123 | 103 | 79   | 53   |  |  |
| -                | 4SL 8/33         | 5.5            | 7.5  |                       | 230 | 227 | 214 | 201 | 194 | 185 | 170 | 150 | 126 | 97   | 65   |  |  |
| -                | 4SL 8/40         | 7.5            | 10   |                       | 279 | 275 | 259 | 244 | 235 | 224 | 206 | 182 | 153 | 117  | 79   |  |  |





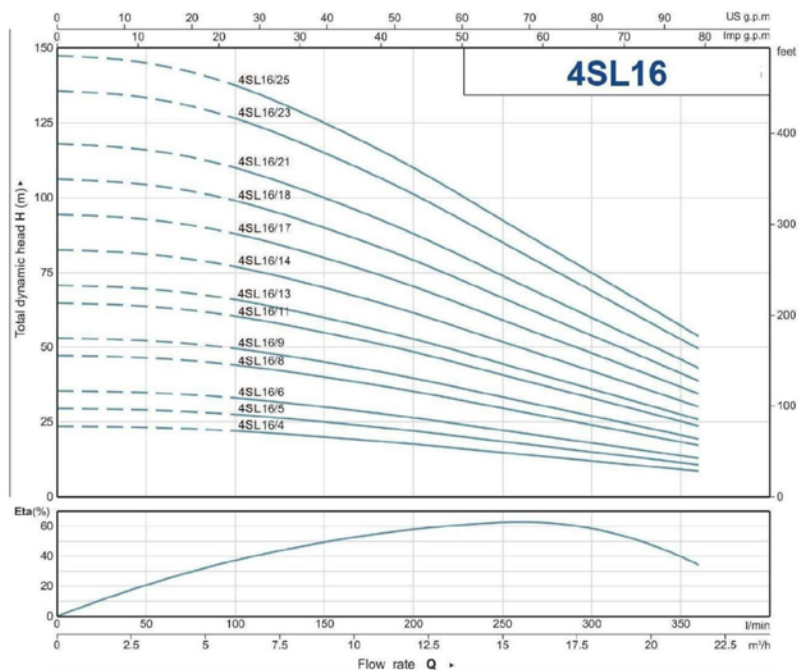
## PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |     |     |     |     |     |     |      |      |      |  |  |
|------------------|------------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|------|------|------|--|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q<br>m³/h<br>l/min    | 0   | 1.8 | 3.6 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 13.8 |  |  |
| 4SLM10/5         | 4SL10/5          | 0.75           | 1    | H(m)                  | 34  | 33  | 30  | 29  | 27  | 25  | 20   | 13   | 7    |  |  |
| 4SLM10/6         | 4SL10/6          | 0.92           | 1.25 |                       | 40  | 40  | 37  | 34  | 33  | 29  | 24   | 16   | 8    |  |  |
| 4SLM10/7         | 4SL10/7          | 1.1            | 1.5  |                       | 47  | 46  | 43  | 40  | 38  | 34  | 28   | 19   | 10   |  |  |
| 4SLM10/8         | 4SL10/8          | 1.3            | 1.75 |                       | 54  | 53  | 49  | 46  | 44  | 39  | 32   | 21   | 11   |  |  |
| 4SLM10/9         | 4SL10/9          | 1.5            | 2    |                       | 61  | 59  | 55  | 52  | 49  | 44  | 36   | 24   | 12   |  |  |
| 4SLM10/10        | 4SL10/10         | 1.5            | 2    |                       | 67  | 66  | 61  | 57  | 55  | 49  | 40   | 26   | 14   |  |  |
| 4SLM10/11        | 4SL10/11         | 1.8            | 2.5  |                       | 74  | 72  | 67  | 63  | 60  | 54  | 44   | 29   | 15   |  |  |
| 4SLM10/13        | 4SL10/13         | 2.2            | 3    |                       | 88  | 86  | 79  | 75  | 71  | 64  | 52   | 34   | 18   |  |  |
| 4SLM10/15        | 4SL10/15         | 2.6            | 3.5  |                       | 101 | 99  | 91  | 86  | 82  | 74  | 60   | 40   | 21   |  |  |
| -                | 4SL10/17         | 3              | 4    |                       | 115 | 112 | 104 | 97  | 93  | 83  | 67   | 45   | 23   |  |  |
| -                | 4SL10/19         | 3.7            | 5    |                       | 128 | 125 | 116 | 109 | 104 | 93  | 75   | 50   | 26   |  |  |
| -                | 4SL10/21         | 4              | 5.5  |                       | 141 | 138 | 128 | 120 | 115 | 103 | 83   | 56   | 29   |  |  |
| -                | 4SL10/24         | 5              | 7    |                       | 162 | 158 | 146 | 138 | 131 | 118 | 95   | 64   | 33   |  |  |
| -                | 4SL10/27         | 5.5            | 7.5  |                       | 182 | 178 | 164 | 155 | 148 | 133 | 107  | 71   | 37   |  |  |
| -                | 4SL10/30         | 7              | 10   |                       | 202 | 198 | 183 | 172 | 164 | 147 | 119  | 79   | 41   |  |  |
| -                | 4SL10/34         | 7.5            | 10   |                       | 229 | 224 | 207 | 195 | 186 | 167 | 135  | 90   | 47   |  |  |



## PERFORMANCE DATA 50Hz

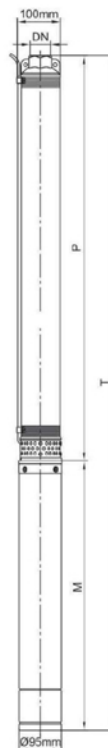
| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |     |     |     |     |     |     |      |      |      |      |  |
|------------------|------------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q<br>m³/h<br>l/min    | 0   | 1.8 | 3.6 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 14.4 | 16.2 |  |
| 4SLM12/4         | 4SL12/4          | 0.75           | 1    | H(m)                  | 25  | 24  | 22  | 21  | 19  | 18  | 16   | 13   | 10   | 7    |  |
| 4SLM12/5         | 4SL12/5          | 0.92           | 1.25 |                       | 31  | 30  | 28  | 26  | 24  | 22  | 20   | 17   | 13   | 8    |  |
| 4SLM12/6         | 4SL12/6          | 1.1            | 1.5  |                       | 37  | 36  | 34  | 31  | 29  | 26  | 23   | 20   | 16   | 10   |  |
| 4SLM12/7         | 4SL12/7          | 1.3            | 1.75 |                       | 43  | 42  | 39  | 36  | 34  | 31  | 27   | 23   | 18   | 12   |  |
| 4SLM12/8         | 4SL12/8          | 1.5            | 2    |                       | 49  | 48  | 45  | 42  | 39  | 35  | 31   | 27   | 21   | 14   |  |
| 4SLM12/10        | 4SL12/10         | 1.8            | 2.5  |                       | 61  | 59  | 56  | 52  | 48  | 44  | 39   | 33   | 26   | 17   |  |
| 4SLM12/12        | 4SL12/12         | 2.2            | 3    |                       | 74  | 71  | 67  | 62  | 58  | 53  | 52   | 40   | 31   | 21   |  |
| 4SLM12/14        | 4SL12/14         | 2.6            | 3.5  |                       | 86  | 83  | 78  | 73  | 67  | 62  | 55   | 46   | 36   | 24   |  |
| -                | 4SL12/16         | 3              | 4    |                       | 98  | 95  | 90  | 83  | 77  | 71  | 63   | 53   | 42   | 27   |  |
| -                | 4SL12/18         | 3.7            | 5    |                       | 110 | 107 | 101 | 93  | 87  | 79  | 70   | 60   | 47   | 30   |  |
| -                | 4SL12/21         | 4              | 5.5  |                       | 123 | 119 | 112 | 104 | 96  | 88  | 78   | 66   | 52   | 34   |  |
| -                | 4SL12/23         | 5              | 7    |                       | 141 | 137 | 129 | 119 | 111 | 101 | 90   | 76   | 60   | 39   |  |
| -                | 4SL12/26         | 5.5            | 7.5  |                       | 159 | 154 | 145 | 135 | 125 | 115 | 102  | 86   | 67   | 44   |  |
| -                | 4SL12/29         | 7              | 10   |                       | 178 | 172 | 162 | 150 | 140 | 128 | 113  | 96   | 75   | 49   |  |
| -                | 4SL12/31         | 7.5            | 10   |                       | 196 | 190 | 179 | 166 | 154 | 141 | 125  | 106  | 83   | 54   |  |



## PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |      |     |     |     |     |     |     |     |  |
|------------------|------------------|----------------|------|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|--|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h |     |     |     |     |     |     |     |  |
|                  |                  |                |      |                       | 0    | 3   | 6   | 9   | 12  | 15  | 18  | 21  |  |
| 4SLM16/4         | 4SL16/4          | 1.1            | 1.5  | H(m)                  | 0    | 50  | 100 | 150 | 200 | 250 | 300 | 350 |  |
| 4SLM16/5         | 4SL16/5          | 1.3            | 1.75 |                       | 24   | 23  | 22  | 20  | 18  | 15  | 12  | 9   |  |
| 4SLM16/6         | 4SL16/6          | 1.5            | 2    |                       | 30   | 29  | 28  | 25  | 22  | 19  | 15  | 11  |  |
| 4SLM16/8         | 4SL16/8          | 1.8            | 2.5  |                       | 36   | 35  | 33  | 30  | 26  | 22  | 18  | 13  |  |
| 4SLM16/9         | 4SL16/9          | 2.2            | 3    |                       | 47   | 46  | 44  | 40  | 35  | 30  | 24  | 17  |  |
| 4SLM16/11        | 4SL16/11         | 2.6            | 3.5  |                       | 53   | 52  | 50  | 45  | 40  | 33  | 27  | 19  |  |
| -                | 4SL16/13         | 3              | 4    |                       | 65   | 64  | 61  | 55  | 48  | 41  | 33  | 24  |  |
| -                | 4SL16/14         | 3.7            | 5    |                       | 81   | 78  | 66  | 60  | 57  | 45  | 36  | 28  |  |
| -                | 4SL16/17         | 4              | 5.5  |                       | 83   | 81  | 77  | 70  | 62  | 52  | 42  | 30  |  |
| -                | 4SL16/18         | 5              | 7    |                       | 95   | 93  | 88  | 80  | 70  | 60  | 48  | 35  |  |
| -                | 4SL16/21         | 5.5            | 7.5  |                       | 107  | 104 | 99  | 90  | 79  | 67  | 54  | 39  |  |
| -                | 4SL16/23         | 7              | 10   |                       | 130  | 126 | 110 | 100 | 92  | 74  | 60  | 45  |  |
| -                | 4SL16/25         | 7.5            | 10   |                       | 136  | 133 | 127 | 115 | 101 | 86  | 69  | 50  |  |
| -                | 4SL16/25         | 7.5            | 10   |                       | 158  | 150 | 138 | 125 | 110 | 93  | 75  | 54  |  |

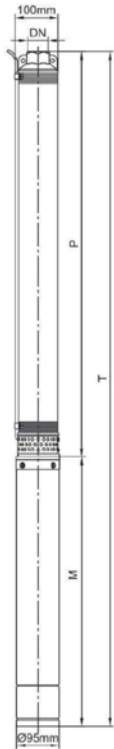
## DIMENSION AND WEIGHT



| MODEL            |                  | DN          | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|------------------|------------------|-------------|---------------|------|------|------|------|------------|------|------|------|------|
| 1~<br>220 - 240V | 3~<br>380 - 415V |             | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 4SLM2/7          | 4SL2/7           | 1 1/2" 1/2" | 392           | 299  | 299  | 691  | 691  | 3.3        | 5.5  | 5.8  | 8.8  | 9.1  |
| 4SLM2/9          | 4SL2/9           | 1 1/2" 1/2" | 440           | 314  | 314  | 754  | 754  | 3.8        | 6.7  | 6.7  | 10.5 | 10.5 |
| 4SLM2/12         | 4SL2/12          | 1 1/2" 1/2" | 514           | 329  | 329  | 843  | 843  | 4.6        | 7.3  | 7.3  | 11.9 | 11.9 |
| 4SLM2/15         | 4SL2/15          | 1 1/2" 1/2" | 587           | 359  | 344  | 946  | 931  | 5.2        | 8.7  | 8.0  | 13.9 | 13.2 |
| 4SLM2/18         | 4SL2/18          | 1 1/2" 1/2" | 660           | 379  | 379  | 1039 | 1039 | 6.0        | 9.8  | 9.8  | 15.8 | 15.8 |
| 4SLM2/21         | 4SL2/21          | 1 1/2" 1/2" | 765           | 399  | 379  | 1164 | 1144 | 6.7        | 10.6 | 9.8  | 17.3 | 16.5 |
| 4SLM2/24         | 4SL2/24          | 1 1/2" 1/2" | 838           | 424  | 424  | 1262 | 1262 | 7.5        | 11.7 | 11.7 | 19.2 | 19.2 |
| 4SLM2/28         | 4SL2/28          | 1 1/2" 1/2" | 936           | 449  | 424  | 1385 | 1360 | 8.4        | 12.9 | 11.7 | 21.3 | 20.1 |
| 4SLM2/32         | 4SL2/32          | 1 1/2" 1/2" | 1033          | 514  | 514  | 1547 | 1547 | 9.4        | 15.7 | 15.7 | 25.1 | 25.1 |
| 4SLM2/37         | 4SL2/37          | 1 1/2" 1/2" | 1155          | 554  | 514  | 1709 | 1669 | 10.7       | 17.7 | 15.7 | 28.4 | 26.4 |
| 4SLM2/42         | 4SL2/42          | 1 1/2" 1/2" | 1309          | 594  | 554  | 1903 | 1863 | 11.9       | 19.8 | 17.7 | 31.7 | 29.6 |
| -                | 4SL2/47          | 1 1/2" 1/2" | 1431          | -    | 594  | -    | 2025 | 13.1       | -    | 19.8 | -    | 32.9 |
| -                | 4SL2/52          | 1 1/2" 1/2" | 1553          | -    | 629  | -    | 2182 | 14.3       | -    | 21.4 | -    | 35.7 |
| -                | 4SL2/58          | 1 1/2" 1/2" | 1699          | -    | 669  | -    | 2368 | 15.8       | -    | 23.7 | -    | 39.5 |
| -                | 4SL2/64          | 1 1/2" 1/2" | 1845          | -    | 709  | -    | 2554 | 17.3       | -    | 25.5 | -    | 42.8 |
| 4SLM3/5          | 4SL3/5           | 1 1/2" 1/2" | 355           | 299  | 299  | 654  | 654  | 2.8        | 5.5  | 5.8  | 8.3  | 8.6  |
| 4SLM3/7          | 4SL3/7           | 1 1/2" 1/2" | 409           | 314  | 314  | 723  | 723  | 3.4        | 6.7  | 6.7  | 10.1 | 10.1 |
| 4SLM3/10         | 4SL3/10          | 1 1/2" 1/2" | 490           | 329  | 329  | 814  | 819  | 4.1        | 7.3  | 7.3  | 11.4 | 11.4 |
| 4SLM3/13         | 4SL3/13          | 1 1/2" 1/2" | 571           | 359  | 344  | 930  | 915  | 4.9        | 8.7  | 8.0  | 13.5 | 12.9 |
| 4SLM3/15         | 4SL3/15          | 1 1/2" 1/2" | 624           | 379  | 379  | 1003 | 1003 | 5.4        | 9.8  | 9.8  | 15.2 | 15.2 |
| 4SLM3/18         | 4SL3/18          | 1 1/2" 1/2" | 737           | 399  | 379  | 1136 | 1116 | 6.2        | 10.6 | 9.8  | 16.8 | 16.0 |
| 4SLM3/20         | 4SL3/20          | 1 1/2" 1/2" | 790           | 424  | 424  | 1214 | 1214 | 6.7        | 11.7 | 11.7 | 18.4 | 18.4 |
| 4SLM3/22         | 4SL3/22          | 1 1/2" 1/2" | 844           | 449  | 424  | 1293 | 1268 | 7.3        | 12.9 | 11.7 | 20.2 | 19.0 |
| 4SLM3/26         | 4SL3/26          | 1 1/2" 1/2" | 952           | 502  | 514  | 1454 | 1466 | 8.3        | 15.7 | 15.7 | 24.0 | 24.0 |
| 4SLM3/30         | 4SL3/30          | 1 1/2" 1/2" | 1059          | 542  | 514  | 1601 | 1573 | 9.3        | 17.7 | 15.7 | 27.0 | 25.0 |
| 4SLM3/35         | 4SL3/35          | 1 1/2" 1/2" | 1194          | 594  | 554  | 1664 | 1748 | 10.6       | 19.8 | 17.7 | 30.4 | 28.3 |
| -                | 4SL3/40          | 1 1/2" 1/2" | 1360          | -    | 594  | -    | 1954 | 11.9       | -    | 19.8 | -    | 31.7 |
| -                | 4SL3/45          | 1 1/2" 1/2" | 1494          | -    | 658  | -    | 2152 | 13.2       | -    | 21.4 | -    | 34.6 |
| -                | 4SL3/50          | 1 1/2" 1/2" | 1629          | -    | 698  | -    | 2327 | 14.5       | -    | 23.7 | -    | 38.2 |
| -                | 4SL3/56          | 1 1/2" 1/2" | 1790          | -    | 738  | -    | 2528 | 16.1       | -    | 25.5 | -    | 41.6 |
| -                | 4SL3/62          | 1 1/2" 1/2" | 1983          | -    | 788  | -    | 2771 | 17.6       | -    | 28.0 | -    | 45.6 |
| 4SLM4/6          | 4SL4/6           | 1 1/2" 1/2" | 396           | 314  | 314  | 710  | 710  | 3.2        | 6.7  | 6.7  | 9.9  | 9.9  |
| 4SLM4/8          | 4SL4/8           | 1 1/2" 1/2" | 454           | 329  | 329  | 783  | 783  | 3.7        | 7.3  | 7.3  | 11.0 | 11.0 |
| 4SLM4/10         | 4SL4/10          | 1 1/2" 1/2" | 513           | 359  | 344  | 872  | 857  | 4.3        | 8.7  | 8.0  | 13.0 | 12.3 |
| 4SLM4/12         | 4SL4/12          | 1 1/2" 1/2" | 571           | 379  | 379  | 950  | 950  | 4.8        | 9.8  | 9.8  | 14.6 | 14.6 |
| 4SLM4/14         | 4SL4/14          | 1 1/2" 1/2" | 630           | 399  | 379  | 1029 | 1009 | 5.3        | 10.6 | 9.8  | 15.9 | 15.1 |
| 4SLM4/16         | 4SL4/16          | 1 1/2" 1/2" | 688           | 424  | 424  | 1112 | 1112 | 5.9        | 11.7 | 11.7 | 17.5 | 17.6 |
| 4SLM4/18         | 4SL4/18          | 1 1/2" 1/2" | 778           | 449  | 424  | 1227 | 1202 | 6.4        | 12.9 | 11.7 | 19.3 | 18.1 |
| 4SLM4/21         | 4SL4/21          | 1 1/2" 1/2" | 866           | 502  | 514  | 1368 | 1380 | 7.2        | 15.7 | 15.7 | 22.9 | 22.9 |
| 4SLM4/24         | 4SL4/24          | 1 1/2" 1/2" | 953           | 542  | 514  | 1495 | 1467 | 8.1        | 17.7 | 15.7 | 26.3 | 23.8 |
| 4SLM4/28         | 4SL4/28          | 1 1/2" 1/2" | 1070          | 594  | 554  | 1664 | 1624 | 9.1        | 19.8 | 17.7 | 28.9 | 26.8 |
| -                | 4SL4/32          | 1 1/2" 1/2" | 1187          | -    | 594  | -    | 1781 | 10.2       | -    | 19.8 | -    | 30.0 |
| -                | 4SL4/36          | 1 1/2" 1/2" | 1335          | -    | 658  | -    | 1993 | 11.3       | -    | 21.4 | -    | 32.7 |
| -                | 4SL4/40          | 1 1/2" 1/2" | 1452          | -    | 698  | -    | 2150 | 12.4       | -    | 23.7 | -    | 36.1 |
| -                | 4SL4/45          | 1 1/2" 1/2" | 1598          | -    | 738  | -    | 2336 | 13.7       | -    | 25.5 | -    | 39.2 |
| -                | 4SL4/50          | 1 1/2" 1/2" | 1744          | -    | 788  | -    | 2532 | 15.1       | -    | 28.0 | -    | 43.1 |
| -                | 4SL4/56          | 1 1/2" 1/2" | 1951          | -    | 848  | -    | 2799 | 16.7       | -    | 30.0 | -    | 46.7 |
| -                | 4SL4/62          | 1 1/2" 1/2" | 2125          | -    | 908  | -    | 3034 | 18.4       | -    | 34.0 | -    | 52.4 |

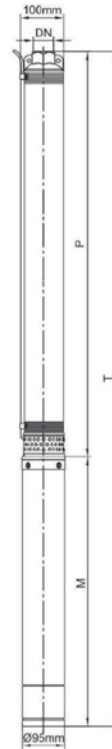


## DIMENSION AND WEIGHT



| MODEL          |                | DN          | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|----------------|----------------|-------------|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V |             | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 4SLM6/5        | 4SL6/5         | 1 1/2" 1/2" | 400           | 314  | 314  | 714  | 714  | 3.0        | 6.7  | 6.7  | 9.7  | 9.7  |
| 4SLM6/6        | 4SL6/6         | 1 1/2" 1/2" | 435           | 344  | 344  | 779  | 779  | 3.3        | 8.0  | 8.0  | 11.3 | 11.3 |
| 4SLM6/7        | 4SL6/7         | 1 1/2" 1/2" | 469           | 344  | 344  | 813  | 813  | 3.6        | 8.0  | 8.0  | 11.6 | 11.6 |
| 4SLM6/8        | 4SL6/8         | 1 1/2" 1/2" | 510           | 359  | 359  | 869  | 869  | 3.8        | 8.7  | 8.7  | 12.5 | 12.5 |
| 4SLM6/9        | 4SL6/9         | 1 1/2" 1/2" | 538           | 379  | 379  | 917  | 917  | 4.1        | 9.8  | 9.8  | 13.9 | 13.9 |
| 4SLM6/11       | 4SL6/11        | 1 1/2" 1/2" | 607           | 399  | 379  | 1006 | 986  | 4.7        | 10.6 | 9.8  | 15.3 | 14.5 |
| 4SLM6/13       | 4SL6/13        | 1 1/2" 1/2" | 642           | 424  | 424  | 1066 | 1066 | 5.0        | 11.7 | 11.7 | 16.7 | 16.7 |
| 4SLM6/15       | 4SL6/15        | 1 1/2" 1/2" | 742           | 449  | 424  | 1191 | 1166 | 5.6        | 12.9 | 11.7 | 18.5 | 17.3 |
| 4SLM6/17       | 4SL6/17        | 1 1/2" 1/2" | 846           | 502  | 514  | 1348 | 1360 | 6.4        | 15.7 | 15.7 | 22.1 | 22.1 |
| 4SLM6/21       | 4SL6/21        | 1 1/2" 1/2" | 949           | 542  | 514  | 1491 | 1463 | 7.3        | 17.7 | 15.7 | 25.0 | 23.0 |
| 4SLM6/23       | 4SL6/23        | 1 1/2" 1/2" | 1053          | 594  | 554  | 1647 | 1607 | 8.1        | 19.8 | 17.7 | 27.9 | 25.8 |
| -              | 4SL6/26        | 1 1/2" 1/2" | 1156          | -    | 594  | -    | 1750 | 9.0        | -    | 19.8 | -    | 28.8 |
| -              | 4SL6/30        | 1 1/2" 1/2" | 1326          | -    | 658  | -    | 1984 | 10.1       | -    | 21.4 | -    | 31.5 |
| -              | 4SL6/34        | 1 1/2" 1/2" | 1464          | -    | 698  | -    | 2162 | 11.3       | -    | 23.7 | -    | 35.0 |
| -              | 4SL6/38        | 1 1/2" 1/2" | 1602          | -    | 738  | -    | 2340 | 12.4       | -    | 25.5 | -    | 37.9 |
| -              | 4SL6/42        | 1 1/2" 1/2" | 1740          | -    | 788  | -    | 2528 | 13.6       | -    | 28.0 | -    | 41.6 |
| -              | 4SL6/47        | 1 1/2" 1/2" | 1944          | -    | 848  | -    | 2792 | 15.0       | -    | 30.0 | -    | 45.0 |
| -              | 4SL6/52        | 1 1/2" 1/2" | 2116          | -    | 908  | -    | 3024 | 16.4       | -    | 34.0 | -    | 50.4 |
| 4SLM8/5        | 4SL8/5         | 1 1/2" 1/2" | 456           | 344  | 344  | 800  | 800  | 3.2        | 8.0  | 8.0  | 11.2 | 11.2 |
| 4SLM8/6        | 4SL8/6         | 1 1/2" 1/2" | 475           | 359  | 344  | 872  | 857  | 3.3        | 8.7  | 8.0  | 12.6 | 11.9 |
| 4SLM8/7        | 4SL8/7         | 1 1/2" 1/2" | 494           | 359  | 344  | 853  | 838  | 3.6        | 8.7  | 8.0  | 12.3 | 11.6 |
| 4SLM8/8        | 4SL8/8         | 1 1/2" 1/2" | 532           | 379  | 379  | 911  | 911  | 3.9        | 9.8  | 9.8  | 13.7 | 13.7 |
| 4SLM8/9        | 4SL8/9         | 1 1/2" 1/2" | 570           | 399  | 379  | 969  | 949  | 4.2        | 10.6 | 9.8  | 14.8 | 14.0 |
| 4SLM8/10       | 4SL8/10        | 1 1/2" 1/2" | 609           | 424  | 424  | 1033 | 1033 | 4.5        | 11.7 | 11.7 | 16.2 | 16.2 |
| 4SLM8/11       | 4SL8/11        | 1 1/2" 1/2" | 717           | 449  | 424  | 1165 | 1141 | 5.1        | 12.9 | 11.7 | 18.0 | 16.8 |
| 4SLM8/14       | 4SL8/14        | 1 1/2" 1/2" | 793           | 502  | 514  | 1295 | 1307 | 5.7        | 15.7 | 15.7 | 21.4 | 21.4 |
| 4SLM8/17       | 4SL8/17        | 1 1/2" 1/2" | 907           | 542  | 514  | 1449 | 1421 | 6.6        | 17.7 | 15.7 | 24.3 | 22.3 |
| 4SLM8/20       | 4SL8/20        | 1 1/2" 1/2" | 1021          | 594  | 554  | 1615 | 1575 | 7.5        | 19.8 | 17.7 | 27.3 | 25.2 |
| -              | 4SL8/21        | 1 1/2" 1/2" | 1136          | -    | 594  | -    | 1730 | 8.4        | -    | 19.8 | -    | 28.2 |
| -              | 4SL8/26        | 1 1/2" 1/2" | 1250          | -    | 658  | -    | 1908 | 9.2        | -    | 21.4 | -    | 30.6 |
| -              | 4SL8/27        | 1 1/2" 1/2" | 1396          | -    | 698  | -    | 2094 | 10.1       | -    | 23.7 | -    | 33.8 |
| -              | 4SL8/30        | 1 1/2" 1/2" | 1548          | -    | 738  | -    | 2286 | 11.3       | -    | 25.5 | -    | 36.8 |
| -              | 4SL8/33        | 1 1/2" 1/2" | 1701          | -    | 788  | -    | 2489 | 12.5       | -    | 28.0 | -    | 40.5 |
| -              | 4SL8/40        | 1 1/2" 1/2" | 1884          | -    | 848  | -    | 2732 | 13.7       | -    | 30.0 | -    | 43.7 |
| -              | 4SL8/45        | 1 1/2" 1/2" | 2037          | -    | 908  | -    | 2945 | 14.9       | -    | 34.0 | -    | 48.9 |
| 4SLM10/5       | 4SL10/5        | 1 1/2" 1/2" | 418           | 359  | 344  | 777  | 762  | 3.0        | 8.7  | 8.0  | 11.7 | 11.0 |
| 4SLM10/6       | 4SL10/6        | 1 1/2" 1/2" | 456           | 379  | 379  | 835  | 835  | 3.3        | 9.8  | 9.8  | 13.1 | 13.1 |
| 4SLM10/7       | 4SL10/7        | 1 1/2" 1/2" | 494           | 399  | 379  | 893  | 873  | 3.6        | 10.6 | 9.8  | 14.2 | 13.4 |
| 4SLM10/8       | 4SL10/8        | 1 1/2" 1/2" | 532           | 424  | 424  | 956  | 956  | 3.9        | 11.7 | 11.7 | 15.6 | 15.6 |
| 4SLM10/9       | 4SL10/9        | 1 1/2" 1/2" | 570           | 449  | 424  | 1019 | 994  | 4.2        | 12.9 | 11.7 | 17.1 | 15.9 |
| 4SLM10/10      | 4SL10/10       | 1 1/2" 1/2" | 608           | 449  | 424  | 1057 | 1032 | 4.5        | 12.9 | 11.7 | 17.4 | 16.2 |
| 4SLM10/11      | 4SL10/11       | 1 1/2" 1/2" | 646           | 502  | 514  | 1148 | 1160 | 4.8        | 15.7 | 15.7 | 20.5 | 20.5 |
| 4SLM10/13      | 4SL10/13       | 1 1/2" 1/2" | 722           | 542  | 514  | 1264 | 1236 | 5.4        | 17.7 | 15.7 | 23.1 | 21.1 |
| 4SLM10/15      | 4SL10/15       | 1 1/2" 1/2" | 798           | 594  | 554  | 1392 | 1352 | 6.0        | 19.8 | 17.7 | 25.8 | 23.7 |
| -              | 4SL10/17       | 1 1/2" 1/2" | 874           | -    | 594  | -    | 1468 | 6.6        | -    | 19.8 | -    | 26.4 |
| -              | 4SL10/19       | 1 1/2" 1/2" | 950           | -    | 658  | -    | 1608 | 7.2        | -    | 21.4 | -    | 28.6 |
| -              | 4SL10/21       | 1 1/2" 1/2" | 1026          | -    | 698  | -    | 1724 | 7.8        | -    | 23.7 | -    | 31.5 |
| -              | 4SL10/24       | 1 1/2" 1/2" | 1140          | -    | 738  | -    | 1878 | 8.7        | -    | 25.5 | -    | 34.2 |
| -              | 4SL10/27       | 1 1/2" 1/2" | 1254          | -    | 788  | -    | 2042 | 9.6        | -    | 28.0 | -    | 37.6 |
| -              | 4SL10/30       | 1 1/2" 1/2" | 1368          | -    | 848  | -    | 2216 | 10.5       | -    | 30.0 | -    | 40.5 |
| -              | 4SL10/34       | 1 1/2" 1/2" | 1520          | -    | 908  | -    | 2428 | 11.7       | -    | 34.0 | -    | 45.7 |

## DIMENSION AND WEIGHT



| MODEL          |                | DN | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|----------------|----------------|----|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V |    | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 4SLM12/4       | 4SL12/4        | 2" | 452           | 359  | 344  | 811  | 796  | 3.1        | 8.7  | 8.0  | 11.8 | 11.1 |
| 4SLM12/5       | 4SL12/5        | 2" | 508           | 379  | 379  | 887  | 867  | 3.5        | 9.8  | 9.8  | 13.3 | 13.3 |
| 4SLM12/6       | 4SL12/6        | 2" | 564           | 399  | 379  | 963  | 943  | 3.8        | 10.6 | 9.8  | 14.4 | 13.6 |
| 4SLM12/7       | 4SL12/7        | 2" | 620           | 424  | 424  | 1044 | 1044 | 4.2        | 11.7 | 11.7 | 15.9 | 15.9 |
| 4SLM12/8       | 4SL12/8        | 2" | 676           | 449  | 424  | 1125 | 1100 | 4.6        | 12.9 | 11.7 | 17.5 | 16.3 |
| 4SLM12/10      | 4SL12/10       | 2" | 819           | 502  | 514  | 1321 | 1334 | 5.4        | 15.7 | 15.7 | 21.1 | 21.1 |
| 4SLM12/12      | 4SL12/12       | 2" | 931           | 542  | 514  | 1473 | 1445 | 6.1        | 17.7 | 15.7 | 23.8 | 21.8 |
| 4SLM12/14      | 4SL12/14       | 2" | 1043          | 594  | 554  | 1637 | 1597 | 6.9        | 19.8 | 17.7 | 26.7 | 24.6 |
| -              | 4SL12/16       | 2" | 1155          | -    | 594  | -    | 1749 | 7.6        | -    | 19.8 | -    | 27.4 |
| -              | 4SL12/18       | 2" | 1298          | -    | 658  | -    | 1956 | 8.4        | -    | 21.4 | -    | 29.8 |
| -              | 4SL12/21       | 2" | 1410          | -    | 698  | -    | 2108 | 9.2        | -    | 23.7 | -    | 32.9 |
| -              | 4SL12/23       | 2" | 1578          | -    | 738  | -    | 2316 | 10.3       | -    | 25.5 | -    | 35.8 |
| -              | 4SL12/26       | 2" | 1745          | -    | 788  | -    | 2533 | 11.4       | -    | 28.0 | -    | 39.4 |
| -              | 4SL12/29       | 2" | 1944          | -    | 848  | -    | 2793 | 12.6       | -    | 30.0 | -    | 42.6 |
| -              | 4SL12/31       | 2" | 2143          | -    | 908  | -    | 3020 | 13.7       | -    | 34.0 | -    | 47.7 |

| MODEL          |                | DN | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|----------------|----------------|----|---------------|------|------|------|------|------------|------|------|------|------|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V |    | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 4SLM16/4       | 4SL16/4        | 2" | 502           | 399  | 379  | 901  | 881  | 3.4        | 10.6 | 9.8  | 14.0 | 13.2 |
| 4SLM16/5       | 4SL16/5        | 2" | 570           | 424  | 424  | 994  | 995  | 3.8        | 11.7 | 11.7 | 15.5 | 15.5 |
| 4SLM16/6       | 4SL16/6        | 2" | 639           | 449  | 424  | 1088 | 1063 | 4.3        | 12.9 | 11.7 | 17.2 | 16.0 |
| 4SLM16/8       | 4SL16/8        | 2" | 807           | 502  | 514  | 1309 | 1322 | 5.2        | 15.7 | 15.7 | 20.9 | 20.9 |
| 4SLM16/9       | 4SL16/9        | 2" | 876           | 542  | 514  | 1418 | 1390 | 5.6        | 17.7 | 15.7 | 23.3 | 21.3 |
| 4SLM16/11      | 4SL16/11       | 2" | 1013          | 594  | 554  | 1607 | 1567 | 6.5        | 19.8 | 17.7 | 26.3 | 24.2 |
| -              | 4SL16/13       | 2" | 1081          | -    | 594  | -    | 1675 | 7.0        | -    | 19.8 | -    | 26.8 |
| -              | 4SL16/14       | 2" | 1218          | -    | 658  | -    | 1876 | 7.9        | -    | 21.4 | -    | 29.3 |
| -              | 4SL16/17       | 2" | 1386          | -    | 698  | -    | 2084 | 8.8        | -    | 23.7 | -    | 32.5 |
| -              | 4SL16/18       | 2" | 1523          | -    | 738  | -    | 2261 | 9.7        | -    | 25.5 | -    | 35.2 |
| -              | 4SL16/21       | 2" | 1660          | -    | 788  | -    | 2448 | 10.6       | -    | 28.0 | -    | 38.6 |
| -              | 4SL16/23       | 2" | 1897          | -    | 848  | -    | 2745 | 11.9       | -    | 30.0 | -    | 41.9 |
| -              | 4SL16/25       | 2" | 2034          | -    | 908  | -    | 2942 | 12.8       | -    | 34.0 | -    | 46.8 |



## 6SL

### Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

### Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content: 0.25%  
Minimum well diameter: 6"

### Motor and Pump

Rewindable motor  
**Single-phase:** 220 - 240V/50Hz  
**Three-phase:** 380 - 415V/50Hz  
Equip with start control box or digital auto-control box  
Curve tolerance according to ISO 9906

### Options on request

Special mechanical seal  
Other voltages or frequency 60Hz  
Single phase motor with built-in capacitor

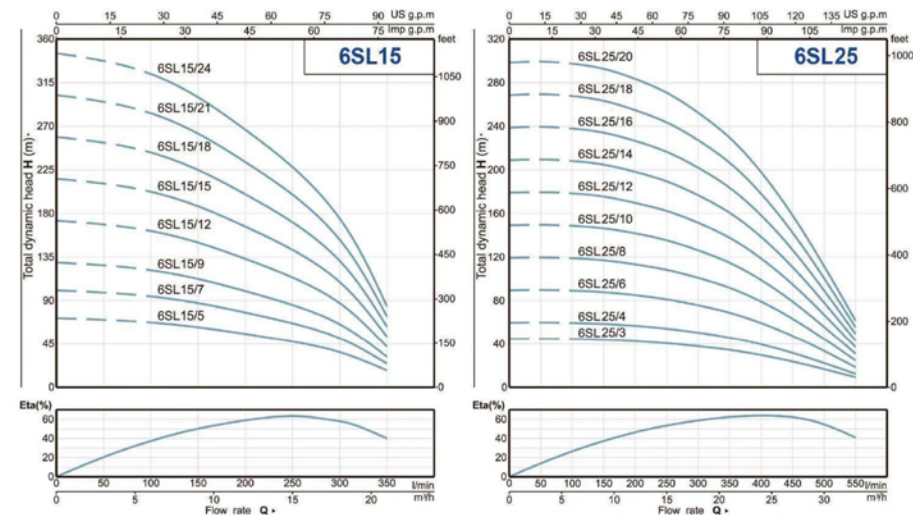
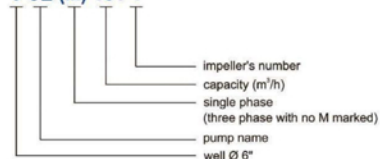
### Warranty: 1 years

(according to our general sales conditions)



| Components            | Material                                       |
|-----------------------|------------------------------------------------|
| Pump external casing  | AISI 304 SS                                    |
| Delivery casing       | ①Cast-Cu ASTM C85500 ②AISI 304 SS              |
| Suction lantern       | AISI 304 SS                                    |
| Diffuser              | Plastic/PC                                     |
| Impeller              | Plastic/POM                                    |
| Shaft                 | AISI 304 SS                                    |
| Shaft coupling        | AISI 304 SS                                    |
| Wear ring             | AISI 304 SS                                    |
| Motor external casing | AISI 304 SS                                    |
| Top chock             | Cast-iron ASTM NO.30                           |
| Bottom support        | AISI 304 SS                                    |
| Mechanical seal       | Special seal for deep well(Graphite-Ceramic)   |
| Shaft                 | AISI 304 SS-ASTM 5140                          |
| Seal lubricant oil    | Oil for food machinery and pharmaceutical use. |

6 SL (M) 15 / 4

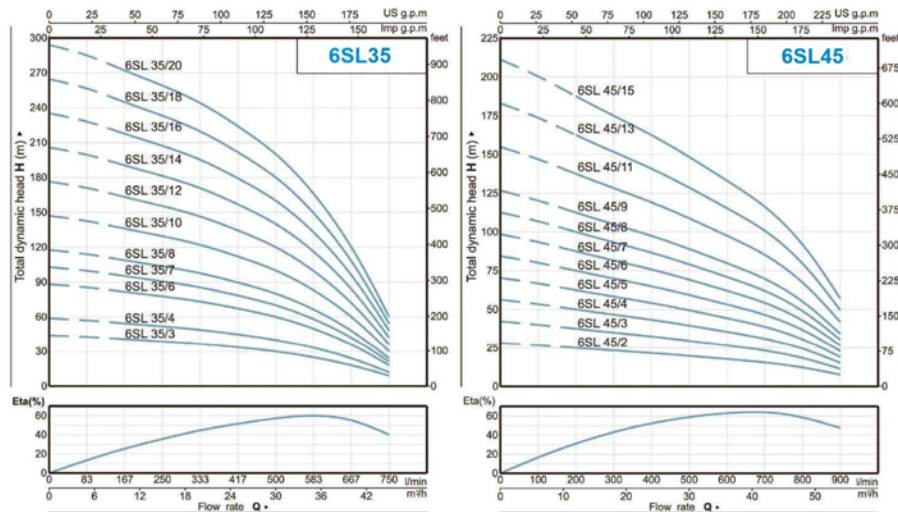


### PERFORMANCE DATA 50Hz

| MODEL          |                | P <sub>2</sub> |      | DELIVERY n=2850 1/min |     |     |     |     |     |     |     |    |    |    |
|----------------|----------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V | kW             | HP   | Q m³/h l/min          | 0   | 3   | 6   | 9   | 12  | 15  | 18  | 21 | 24 | 27 |
| 6SLM15/5       | 6SL15/5        | 3              | 4    | H(m)                  | 72  | 70  | 68  | 63  | 56  | 48  | 36  | 18 |    |    |
| 6SLM15/7       | 6SL15/7        | 4              | 5.5  |                       | 101 | 99  | 95  | 88  | 78  | 67  | 51  | 25 |    |    |
| 6SLM15/9       | 6SL15/9        | 5.5            | 7.5  |                       | 129 | 127 | 122 | 113 | 100 | 86  | 66  | 32 |    |    |
| -              | 6SL15/12       | 7.5            | 10   |                       | 173 | 169 | 162 | 150 | 134 | 114 | 88  | 42 |    |    |
| -              | 6SL15/15       | 9.2            | 12.5 |                       | 216 | 211 | 203 | 188 | 167 | 143 | 109 | 53 |    |    |
| -              | 6SL15/18       | 11             | 15   |                       | 259 | 254 | 243 | 225 | 200 | 171 | 131 | 63 |    |    |
| -              | 6SL15/21       | 13             | 17.5 |                       | 302 | 296 | 284 | 263 | 234 | 200 | 153 | 74 |    |    |
| -              | 6SL15/24       | 15             | 20   |                       | 345 | 338 | 324 | 300 | 267 | 228 | 175 | 84 |    |    |

### PERFORMANCE DATA 50Hz

| MODEL          |                | P <sub>2</sub> |      | DELIVERY n=2850 1/min |     |     |     |     |     |     |     |     |     |     |     |    |  |  |
|----------------|----------------|----------------|------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|--|
| 1 ~ 220 - 240V | 3 ~ 380 - 415V | kW             | HP   | Q m³/h l/min          | 0   | 3   | 6   | 9   | 12  | 15  | 18  | 21  | 24  | 27  | 30  | 33 |  |  |
| 6SLM25/3       | 6SL25/3        | 3              | 4    | H(m)                  | 45  | 45  | 45  | 44  | 42  | 40  | 38  | 33  | 28  | 22  | 16  | 9  |  |  |
| 6SLM25/4       | 6SL25/4        | 4              | 5.5  |                       | 60  | 60  | 60  | 58  | 56  | 54  | 50  | 45  | 39  | 30  | 21  | 12 |  |  |
| 6SLM25/6       | 6SL25/6        | 5.5            | 7.5  |                       | 90  | 90  | 89  | 88  | 85  | 81  | 76  | 66  | 58  | 45  | 32  | 18 |  |  |
| -              | 6SL25/8        | 7.5            | 10   |                       | 120 | 120 | 119 | 117 | 113 | 108 | 101 | 89  | 78  | 60  | 43  | 24 |  |  |
| -              | 6SL25/10       | 9.2            | 12.5 |                       | 150 | 150 | 149 | 146 | 141 | 135 | 126 | 111 | 97  | 75  | 55  | 30 |  |  |
| -              | 6SL25/12       | 11             | 15   |                       | 179 | 180 | 179 | 175 | 169 | 162 | 151 | 134 | 117 | 90  | 65  | 36 |  |  |
| -              | 6SL25/14       | 13             | 17.5 |                       | 209 | 210 | 209 | 204 | 197 | 189 | 176 | 156 | 136 | 105 | 76  | 42 |  |  |
| -              | 6SL25/16       | 15             | 20   |                       | 239 | 240 | 238 | 234 | 226 | 216 | 202 | 178 | 156 | 120 | 87  | 48 |  |  |
| -              | 6SL25/18       | 18.5           | 25   |                       | 269 | 270 | 268 | 263 | 254 | 243 | 227 | 201 | 176 | 135 | 98  | 54 |  |  |
| -              | 6SL25/20       | 18.5           | 25   |                       | 299 | 300 | 298 | 292 | 282 | 270 | 252 | 223 | 195 | 150 | 109 | 60 |  |  |

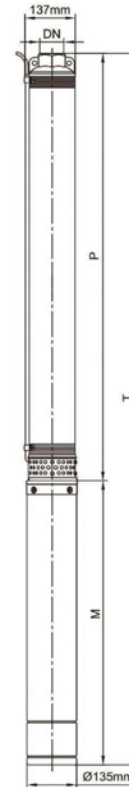


## PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |      |     |     |     |     |     |     |     |     |    |    |
|------------------|------------------|----------------|------|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40 | 45 |
| 6SLM35/3         | 6SL35/3          | 4              | 5.5  | H(m)                  | 44   | 43  | 41  | 39  | 37  | 34  | 30  | 25  | 18  | 9  |    |
| 6SLM35/4         | 6SL35/4          | 5.5            | 7.5  |                       | 59   | 57  | 54  | 52  | 49  | 45  | 40  | 33  | 24  | 12 |    |
| -                | 6SL35/6          | 7.5            | 10   |                       | 88   | 86  | 82  | 78  | 73  | 67  | 60  | 50  | 36  | 18 |    |
| -                | 6SL35/7          | 9.2            | 12.5 |                       | 103  | 100 | 95  | 91  | 85  | 78  | 70  | 58  | 42  | 21 |    |
| -                | 6SL35/8          | 11             | 15   |                       | 118  | 114 | 109 | 104 | 98  | 90  | 80  | 66  | 48  | 24 |    |
| -                | 6SL35/10         | 13             | 17.5 |                       | 147  | 143 | 136 | 130 | 122 | 112 | 100 | 83  | 60  | 30 |    |
| -                | 6SL35/12         | 15             | 20   |                       | 176  | 171 | 163 | 155 | 146 | 134 | 120 | 100 | 72  | 36 |    |
| -                | 6SL35/14         | 18.5           | 25   |                       | 206  | 200 | 190 | 181 | 171 | 157 | 140 | 116 | 84  | 42 |    |
| -                | 6SL35/16         | 18.5           | 25   |                       | 235  | 228 | 218 | 207 | 195 | 179 | 160 | 133 | 96  | 48 |    |
| -                | 6SL35/18         | 22             | 30   |                       | 265  | 257 | 245 | 233 | 220 | 202 | 180 | 149 | 108 | 54 |    |
| -                | 6SL35/20         | 22             | 30   |                       | 294  | 285 | 272 | 259 | 244 | 224 | 200 | 166 | 120 | 60 |    |

## PERFORMANCE DATA 50Hz

| MODEL            |                  | P <sub>2</sub> |      | DELIVERY n≈2850 1/min |      |     |     |     |     |     |     |     |    |    |    |
|------------------|------------------|----------------|------|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| 1~<br>220 - 240V | 3~<br>380 - 415V | kW             | HP   | Q                     | m³/h | 0   | 6   | 12  | 18  | 24  | 30  | 36  | 42 | 48 | 54 |
| 6SLM45/2         | 6SL45/2          | 4              | 5.5  | H(m)                  | 28   | 27  | 25  | 23  | 22  | 20  | 18  | 15  | 12 | 8  |    |
| 6SLM45/3         | 6SL45/3          | 5.5            | 7.5  |                       | 42   | 40  | 38  | 35  | 33  | 30  | 27  | 23  | 18 | 11 |    |
| -                | 6SL45/4          | 7.5            | 10   |                       | 56   | 53  | 50  | 47  | 43  | 39  | 35  | 31  | 25 | 15 |    |
| -                | 6SL45/5          | 9.2            | 12.5 |                       | 70   | 67  | 63  | 58  | 54  | 49  | 44  | 39  | 31 | 19 |    |
| -                | 6SL45/6          | 11             | 15   |                       | 84   | 80  | 75  | 70  | 65  | 59  | 53  | 46  | 37 | 23 |    |
| -                | 6SL45/7          | 13             | 17.5 |                       | 98   | 93  | 88  | 82  | 76  | 69  | 62  | 54  | 43 | 27 |    |
| -                | 6SL45/8          | 15             | 20   |                       | 113  | 107 | 100 | 93  | 87  | 79  | 71  | 62  | 49 | 30 |    |
| -                | 6SL45/9          | 15             | 25   |                       | 127  | 120 | 113 | 105 | 98  | 89  | 80  | 70  | 55 | 34 |    |
| -                | 6SL45/11         | 18.5           | 25   |                       | 155  | 147 | 138 | 128 | 120 | 109 | 98  | 85  | 67 | 42 |    |
| -                | 6SL45/13         | 22             | 30   |                       | 183  | 173 | 163 | 152 | 141 | 128 | 115 | 101 | 80 | 49 |    |
| -                | 6SL45/15         | 22             | 30   |                       | 211  | 200 | 188 | 175 | 163 | 148 | 133 | 116 | 92 | 57 |    |



## DIMENSION AND WEIGHT

| MODEL            |                  | DN    | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|------------------|------------------|-------|---------------|------|------|------|------|------------|------|------|------|------|
| 1~<br>220 - 240V | 3~<br>380 - 415V |       | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 6SLM15/5         | 6SL15/5          | 3"/4" | 555           | 488  | 488  | 1043 | 1043 | 7.8        | 22.5 | 22.5 | 30.3 | 30.3 |
| 6SLM15/7         | 6SL15/7          | 3"/4" | 635           | 528  | 528  | 1163 | 1163 | 9.3        | 25.1 | 25.1 | 34.4 | 34.4 |
| 6SLM15/9         | 6SL15/9          | 3"/4" | 715           | 578  | 578  | 1293 | 1293 | 10.8       | 28.9 | 28.9 | 39.7 | 39.7 |
| -                | 6SL15/12         | 3"/4" | 836           | -    | 638  | -    | 1474 | 13.1       | -    | 33.9 | -    | 47.0 |
| -                | 6SL15/15         | 3"/4" | 956           | -    | 698  | -    | 1654 | 15.4       | -    | 40.2 | -    | 55.6 |
| -                | 6SL15/18         | 3"/4" | 1076          | -    | 763  | -    | 1839 | 17.7       | -    | 46.5 | -    | 64.2 |
| -                | 6SL15/21         | 3"/4" | 1196          | -    | 823  | -    | 2019 | 20.0       | -    | 53.5 | -    | 73.5 |
| -                | 6SL15/24         | 3"/4" | 1317          | -    | 888  | -    | 2205 | 22.3       | -    | 60.5 | -    | 82.8 |

| MODEL            |                  | DN    | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |      |
|------------------|------------------|-------|---------------|------|------|------|------|------------|------|------|------|------|
| 1~<br>220 - 240V | 3~<br>380 - 415V |       | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T) |
| 6SLM25/3         | 6SL25/3          | 3"/4" | 495           | 488  | 488  | 983  | 983  | 6.8        | 22.5 | 22.5 | 29.3 | 29.3 |
| 6SLM25/4         | 6SL25/4          | 3"/4" | 543           | 528  | 528  | 1071 | 1071 | 7.5        | 25.1 | 25.1 | 32.6 | 32.6 |
| 6SLM25/6         | 6SL25/6          | 3"/4" | 638           | 578  | 578  | 1216 | 1216 | 9.1        | 28.9 | 28.9 | 38.0 | 38.0 |
| -                | 6SL25/8          | 3"/4" | 734           | -    | 638  | -    | 1372 | 10.6       | -    | 33.9 | -    | 44.5 |
| -                | 6SL25/10         | 3"/4" | 827           | -    | 698  | -    | 1525 | 12.1       | -    | 40.2 | -    | 52.3 |
| -                | 6SL25/12         | 3"/4" | 922           | -    | 763  | -    | 1685 | 13.6       | -    | 46.5 | -    | 60.1 |
| -                | 6SL25/14         | 3"/4" | 1016          | -    | 823  | -    | 1839 | 15.1       | -    | 53.5 | -    | 68.6 |
| -                | 6SL25/16         | 3"/4" | 1111          | -    | 888  | -    | 1999 | 16.6       | -    | 60.5 | -    | 77.1 |
| -                | 6SL25/18         | 3"/4" | 1206          | -    | 939  | -    | 2145 | 18.1       | -    | 68.0 | -    | 86.0 |
| -                | 6SL25/20         | 3"/4" | 1300          | -    | 939  | -    | 2239 | 19.6       | -    | 70.5 | -    | 91.0 |

| MODEL            |                  | DN    | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |      |      |       |
|------------------|------------------|-------|---------------|------|------|------|------|------------|------|------|------|-------|
| 1~<br>220 - 240V | 3~<br>380 - 415V |       | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T) | T(S) | T(T)  |
| 6SLM35/3         | 6SL35/3          | 3"/4" | 463           | 558  | 538  | 1021 | 1001 | 7.1        | 29.0 | 27.6 | 36.1 | 34.7  |
| 6SLM35/4         | 6SL35/4          | 3"/4" | 580           | 618  | 593  | 1198 | 1173 | 8.0        | 35.4 | 33.4 | 43.4 | 41.4  |
| -                | 6SL35/6          | 3"/4" | 695           | -    | 685  | -    | 1380 | 9.8        | -    | 40.2 | -    | 50.0  |
| -                | 6SL35/7          | 3"/4" | 754           | -    | 760  | -    | 1514 | 10.7       | -    | 48.1 | -    | 58.8  |
| -                | 6SL35/8          | 3"/4" | 812           | -    | 835  | -    | 1647 | 11.6       | -    | 55.2 | -    | 66.8  |
| -                | 6SL35/10         | 3"/4" | 928           | -    | 910  | -    | 1838 | 12.9       | -    | 62.7 | -    | 75.6  |
| -                | 6SL35/12         | 3"/4" | 1045          | -    | 985  | -    | 2030 | 14.7       | -    | 70.4 | -    | 85.1  |
| -                | 6SL35/14         | 3"/4" | 1162          | -    | 1135 | -    | 2297 | 16.5       | -    | 83.3 | -    | 99.8  |
| -                | 6SL35/16         | 3"/4" | 1279          | -    | 1135 | -    | 2414 | 18.3       | -    | 83.3 | -    | 101.6 |
| -                | 6SL35/18         | 3"/4" | 1396          | -    | 1235 | -    | 2631 | 20.1       | -    | 91.9 | -    | 112.0 |
| -                | 6SL35/20         | 3"/4" | 1513          | -    | 1235 | -    | 2748 | 21.9       | -    | 91.9 | -    | 113.8 |

| MODEL            |                  | DN    | DIMENSION(mm) |      |      |      |      | WEIGHT(kg) |      |       |      |       |
|------------------|------------------|-------|---------------|------|------|------|------|------------|------|-------|------|-------|
| 1~<br>220 - 240V | 3~<br>380 - 415V |       | P             | M(S) | M(T) | T(S) | T(T) | P          | M(S) | M(T)  | T(S) | T(T)  |
| 6SLM45/2         | 6SL45/2          | 3"/4" | 492           | 528  | 528  | 1020 | 1020 | 6.4        | 25.1 | 25.1  | 31.5 | 31.5  |
| 6SLM45/3         | 6SL45/3          | 3"/4" | 554           | 618  | 593  | 1172 | 1147 | 7.6        | 35.4 | 33.4  | 43.0 | 41.0  |
| -                | 6SL45/4          | 3"/4" | 623           | -    | 685  | -    | 1308 | 8.6        | -    | 40.2  | -    | 48.8  |
| -                | 6SL45/5          | 3"/4" | 692           | -    | 760  | -    | 1452 | 9.6        | -    | 48.1  | -    | 57.7  |
| -                | 6SL45/6          | 3"/4" | 761           | -    | 835  | -    | 1596 | 10.5       | -    | 55.2  | -    | 65.7  |
| -                | 6SL45/7          | 3"/4" | 831           | -    | 910  | -    | 1741 | 11.5       | -    | 62.7  | -    | 74.2  |
| -                | 6SL45/8          | 3"/4" | 900           | -    | 910  | -    | 1810 | 12.4       | -    | 62.7  | -    | 75.1  |
| -                | 6SL45/9          | 3"/4" | 969           | -    | 985  | -    | 1954 | 13.3       | -    | 70.4  | -    | 83.7  |
| -                | 6SL45/11         | 3"/4" | 1107          | -    | 1135 | -    | 2242 | 15.2       | -    | 83.3  | -    | 98.5  |
| -                | 6SL45/13         | 3"/4" | 1245          | -    | 1235 | -    | 2480 | 17.3       | -    | 91.9  | -    | 109.2 |
| -                | 6SL45/15         | 3"/4" | 1384          | -    | 1385 | -    | 2769 | 19.3       | -    | 104.8 | -    | 124.1 |