

## 4" Submersible Pumps



- ☐ **Compact**
- ☐ **Sturdy**
- ☐ **Abrasion resistant**
- ☐ **All components are F.D.A. approved**
- ☐ **Floating impellers**

### MARKET SECTORS

CIVIL, AGRICULTURAL, INDUSTRIAL.

### APPLICATIONS

- Water supply.
- Sprinkler irrigation.
- Pressure boosting.
- Fire-fighting.

### SPECIFICATIONS

#### PUMP

- **Delivery:** up to 21 m<sup>3</sup>/h at 2850 rpm.
- **Head:** up to 340 m at 2850 rpm.
- Maximum pump overall **diameter** (cable cover included): 99 mm.
- **Maximum** immersion depth: 150 m (with 4OS motor). 300 m (with L4C motor).
- **Maximum** permissible quantity of sand: 150 g/m<sup>3</sup>.
- 1GSL - 2GS - 4GS - 6GS **versions** Rp 1 1/4 delivery port.
- 8GS - 12GS - 16GS **versions** Rp 2 delivery port.
- Motor **power** : from 0,37 to 7,5 kW.

#### MOTOR

- **4OS single-phase version:** from 0,37 to 2,2 kW 220-240 V, 50 Hz.
- **4OS three-phase version:** from 0,37 to 7,5 kW 220-240 V, 50 Hz. from 0,37 to 7,5 kW 380-415 V, 50 Hz.
- **L4C single-phase version:** from 0,37 to 4 kW 220-240 V, 50 Hz.
- **L4C three-phase version:** from 0,37 to 5,5 kW 220-240 V, 50 Hz. from 0,37 to 7,5 kW 380-415 V, 50 Hz.
- Overload protection to be provided by user and installed in the control panel (see electric panel section).
- Maximum supply **voltage variations:** ±-10% (4OS) ±6% (L4C).
- Maximum number of **starts per hour** evenly distributed: 30 (4OS), 40 (L4C).
- **Horizontal operation:** 4OS up to 2,2 kW. L4C up to 7,5 kW.
- Maximum **temperature** of water in contact with motor: **35°C** (4OS), **35°C** (L4C).

### CONSTRUCTION CHARACTERISTICS PUMP

- Abrasion-resistant construction. The front wear plate, combined with the floating impellers, ensures optimum resistance to abrasion.
- The upper and lower supports are made of precision-cast stainless steel, ensuring resistance to corrosion, durability and a sturdy coupling to the motor.
- The hexagonal pump shaft guarantees an effective impeller driving.
- A stainless steel non-return valve is fitted in the discharge to prevent any back flow of water and alleviate any water hammer to the pump, thus safeguarding impellers and diffusers.
- The GS series pumps can be coupled to either the 4OS or L4C motors.

#### MOTOR

For the motor characteristics, please see the relevant motor section.

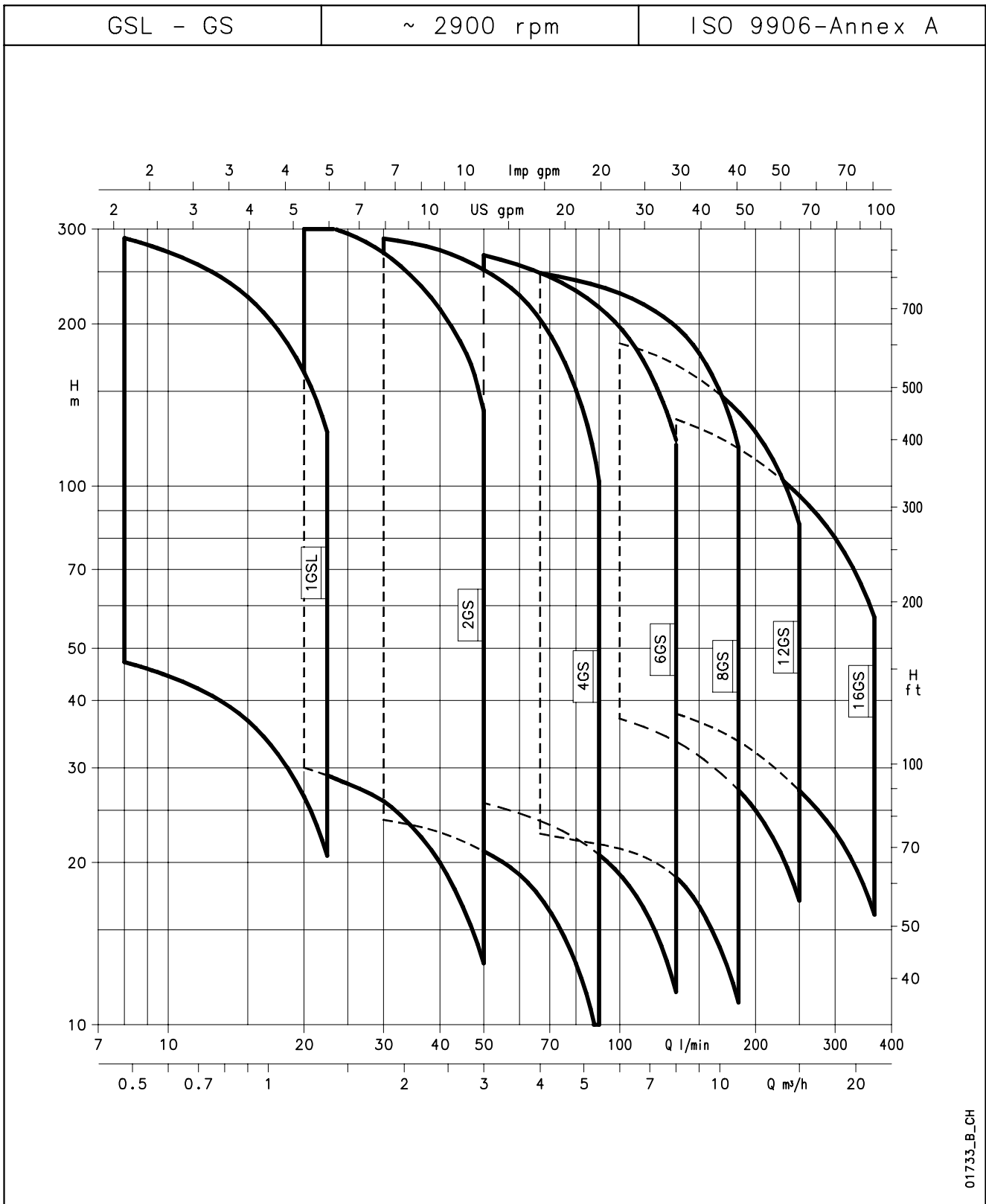
### OPTIONAL FEATURES

- Different voltages and frequencies.

## GS SERIES TABLE OF MATERIALS

| NAME               | MATERIAL             | REFERENCE STANDARDS                 |                |
|--------------------|----------------------|-------------------------------------|----------------|
|                    |                      | EUROPE                              | USA            |
| Delivery port      | Stainless steel      | EN 10213-4-GX5CrNi19-10 (1.4308)    | CF-8 ASTM A743 |
| Valve cap          | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Valve support      | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Valve gasket       | Nitrile rubber (NBR) |                                     |                |
| Valve locking ring | Stainless steel      | DIN 17006 - X5CrNi18-7 (1.4319)     | AISI 302       |
| Upper support      | Lexan®               |                                     |                |
| Bush bearing       | Laripur®             |                                     |                |
| Split ring         | Stainless steel      | EN 10088-1-X5CrNiMo17-12-2 (1.4401) | AISI 316       |
| Diffuser           | Lexan®               |                                     |                |
| Impeller           | Lexan®               |                                     |                |
| Stage housing      | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Shim               | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Pump shaft         | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Outer sleeve       | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Spacer             | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Filter             | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Adapter            | Stainless steel      | EN 10213-4-GX5CrNi19-10 (1.4308)    | CF-8 ASTM A743 |
| Coupling           | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |
| Cable cover screw  | Stainless steel      | EN 10088-1-X5CrNiMo17-12-2 (1.4401) | AISI 316       |
| Cable cover        | Stainless steel      | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304       |

G4-2p50-en\_d\_tm

**GS SERIES  
HYDRAULIC PERFORMANCE RANGE AT 50 Hz**


01733\_B\_CH

## 1GSL SERIES OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE          | N. OF<br>STAGES | MOTOR<br>POWER |      | Q = DELIVERY                          |      |     |     |     |      |      |
|-----------------------|-----------------|----------------|------|---------------------------------------|------|-----|-----|-----|------|------|
|                       |                 |                |      | l/min                                 | 0    | 8,3 | 10  | 15  | 20   | 22,5 |
|                       |                 |                |      | m³/h                                  | 0    | 0,5 | 0,6 | 0,9 | 1,2  | 1,35 |
|                       |                 |                |      | H = TOTAL HEAD METRES COLUMN OF WATER |      |     |     |     |      |      |
|                       |                 | kW             | HP   |                                       |      |     |     |     |      |      |
| 1GSL02 <sup>(1)</sup> | 8               | 0,37           | 0,5  | 53                                    | 46,6 | 45  | 37  | 27  | 20,6 |      |
| 1GSL03                | 12              | 0,37           | 0,5  | 79,4                                  | 69,9 | 67  | 55  | 40  | 30,9 |      |
| 1GSL05                | 18              | 0,55           | 0,75 | 119                                   | 105  | 100 | 83  | 60  | 46,3 |      |
| 1GSL07                | 24              | 0,75           | 1    | 159                                   | 140  | 133 | 110 | 80  | 61,7 |      |
| 1GSL11                | 35              | 1,1            | 1,5  | 232                                   | 204  | 194 | 160 | 116 | 90   |      |
| 1GSL15                | 49              | 1,5            | 2    | 324                                   | 285  | 272 | 224 | 163 | 126  |      |

(1) Maximum pump absorbed power: 0,25 kW - 0,33 HP.

1gsl-2p50-en\_c\_th

## 1GSL..4OS SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM      | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|----------|--------------------|------|----------------------|---------------------------------|
|                           |                 |          | L1                 | L    |                      |                                 |
| 1GSL02M-4OS               | 8               | Rp 1 1/4 | 298                | 651  | 3,1                  | 10,7                            |
| 1GSL03M-4OS               | 12              | Rp 1 1/4 | 369                | 722  | 3,9                  | 11,5                            |
| 1GSL05M-4OS               | 18              | Rp 1 1/4 | 472                | 825  | 4,9                  | 13,1                            |
| 1GSL07M-4OS               | 24              | Rp 1 1/4 | 578                | 956  | 5,8                  | 15,1                            |
| 1GSL11M-4OS               | 35              | Rp 1 1/4 | 824                | 1237 | 8,7                  | 19,9                            |
| 1GSL15M-4OS               | 49              | Rp 1 1/4 | 1068               | 1516 | 11,8                 | 24,6                            |
| 1GSL03T-4OS               | 12              | Rp 1 1/4 | 369                | 701  | 3,9                  | 11                              |
| 1GSL05T-4OS               | 18              | Rp 1 1/4 | 472                | 825  | 4,9                  | 12,5                            |
| 1GSL07T-4OS               | 24              | Rp 1 1/4 | 578                | 931  | 5,8                  | 14                              |
| 1GSL11T-4OS               | 35              | Rp 1 1/4 | 824                | 1202 | 8,7                  | 18                              |
| 1GSL15T-4OS               | 49              | Rp 1 1/4 | 1068               | 1481 | 11,8                 | 23,2                            |

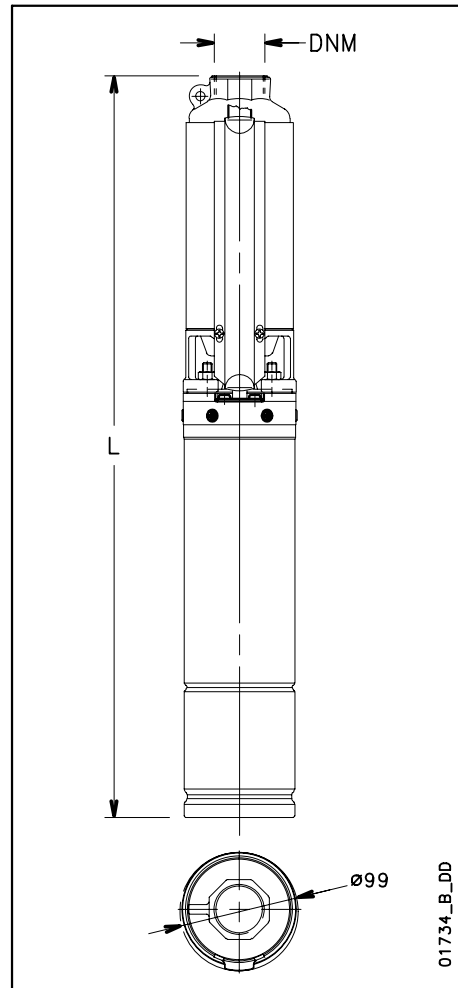
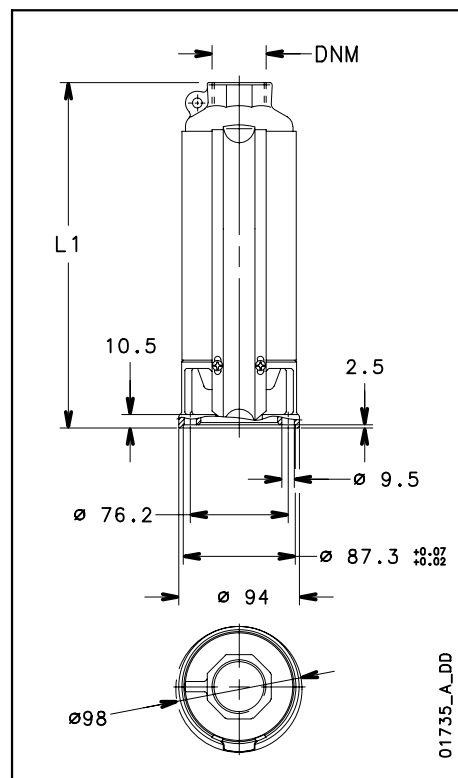
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## 1GSL..L4C SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE | N. OF<br>STAGES | DNM      | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|-------------------------|-----------------|----------|--------------------|------|----------------------|---------------------------------|
|                         |                 |          | L1                 | L    |                      |                                 |
| 1GSL02M-L4C             | 8               | Rp 1 1/4 | 298                | 532  | 3,1                  | 10,3                            |
| 1GSL03M-L4C             | 12              | Rp 1 1/4 | 369                | 603  | 3,9                  | 11,2                            |
| 1GSL05M-L4C             | 18              | Rp 1 1/4 | 472                | 736  | 4,9                  | 12,7                            |
| 1GSL07M-L4C             | 24              | Rp 1 1/4 | 578                | 862  | 5,8                  | 14,2                            |
| 1GSL11M-L4C             | 35              | Rp 1 1/4 | 824                | 1153 | 8,7                  | 19,6                            |
| 1GSL15M-L4C             | 49              | Rp 1 1/4 | 1068               | 1459 | 11,8                 | 24,5                            |
| 1GSL03T-L4C             | 12              | Rp 1 1/4 | 369                | 583  | 3,9                  | 10,9                            |
| 1GSL05T-L4C             | 18              | Rp 1 1/4 | 472                | 706  | 4,9                  | 12,1                            |
| 1GSL07T-L4C             | 24              | Rp 1 1/4 | 578                | 842  | 5,8                  | 13,6                            |
| 1GSL11T-L4C             | 35              | Rp 1 1/4 | 824                | 1108 | 8,7                  | 17,1                            |
| 1GSL15T-L4C             | 49              | Rp 1 1/4 | 1068               | 1414 | 11,8                 | 23,8                            |

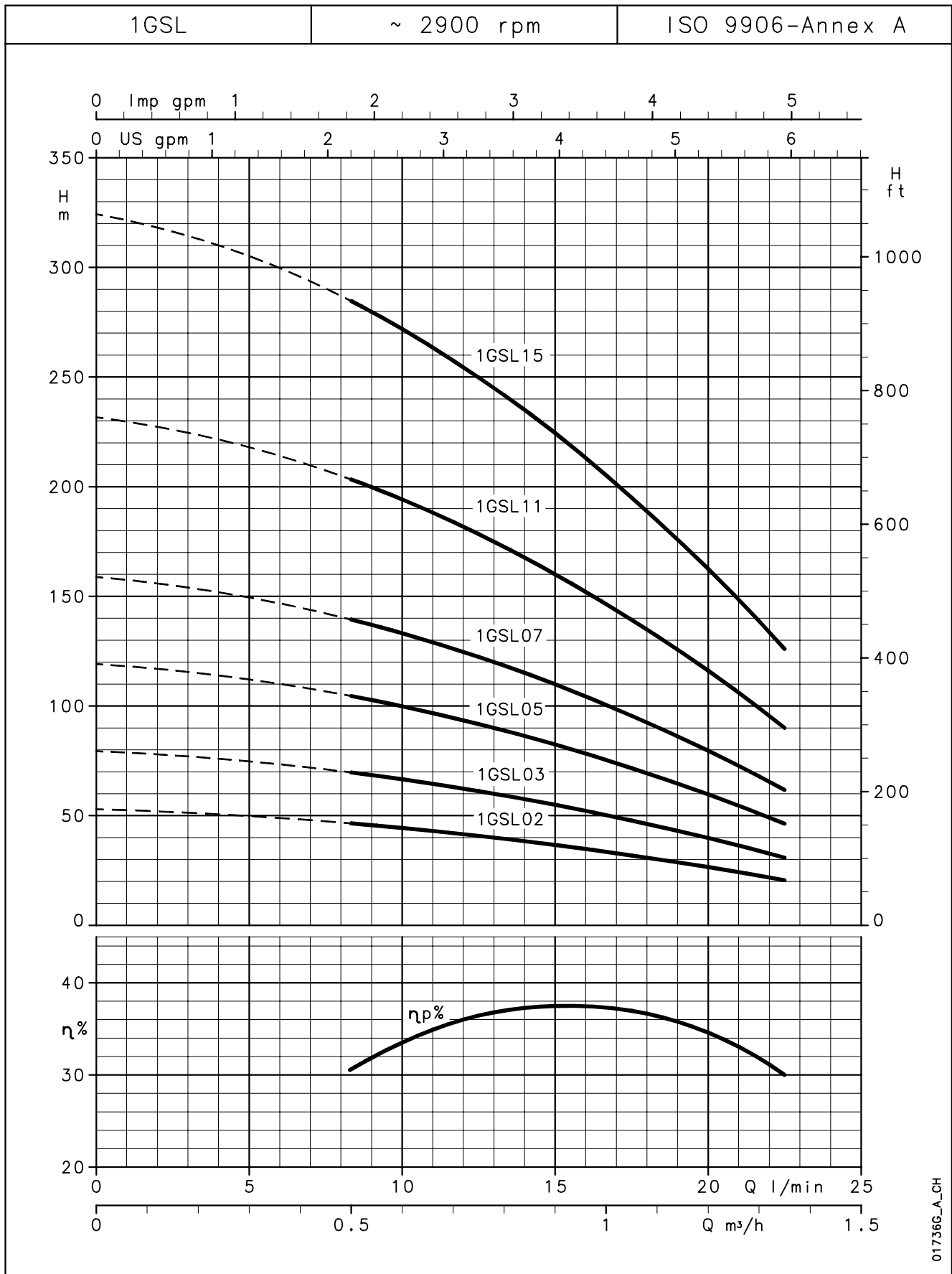
\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

1gsl-l4c-2p50-en\_a\_td



# **1GSL SERIES**

## **OPERATING CHARACTERISTICS AT 50 Hz**



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These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 2GS SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE         | N. OF<br>STAGES | MOTOR<br>POWER |      | Q = DELIVERY                          |     |     |     |     |     |    |
|----------------------|-----------------|----------------|------|---------------------------------------|-----|-----|-----|-----|-----|----|
|                      |                 |                |      | l/min                                 | 0   | 20  | 25  | 30  | 40  | 50 |
|                      |                 |                |      | m³/h                                  | 0   | 1,2 | 1,5 | 1,8 | 2,4 | 3  |
|                      |                 |                |      | H = TOTAL HEAD METRES COLUMN OF WATER |     |     |     |     |     |    |
|                      |                 | kW             | HP   |                                       |     |     |     |     |     |    |
| 2GS02 <sup>(1)</sup> | 5               | 0,37           | 0,5  | 33                                    | 30  | 28  | 26  | 20  | 13  |    |
| 2GS03                | 7               | 0,37           | 0,5  | 47                                    | 42  | 40  | 36  | 29  | 19  |    |
| 2GS05                | 10              | 0,55           | 0,75 | 67                                    | 60  | 56  | 52  | 41  | 27  |    |
| 2GS07                | 14              | 0,75           | 1    | 93                                    | 83  | 79  | 73  | 57  | 37  |    |
| 2GS11                | 20              | 1,1            | 1,5  | 133                                   | 119 | 113 | 104 | 82  | 53  |    |
| 2GS15                | 28              | 1,5            | 2    | 187                                   | 167 | 158 | 146 | 115 | 74  |    |
| 2GS22                | 40              | 2,2            | 3    | 267                                   | 238 | 226 | 208 | 164 | 106 |    |
| 2GS30                | 52              | 3              | 4    | 347                                   | 309 | 294 | 271 | 213 | 138 |    |

(1) Maximum pump absorbed power: 0,25 kW - 0,33 HP.

2gs-2p50-en\_c\_th

## 2GS..40S SERIES

### DIMENSIONS AND WEIGHTS

| ELECTRO PUMP TYPE * | N. OF STAGES | DNM      | DIMENSIONS (mm) |      | PUMP WEIGHT kg | ELECTRO PUMP WEIGHT kg |
|---------------------|--------------|----------|-----------------|------|----------------|------------------------|
|                     |              |          | L1              | L    |                |                        |
| 2GS02M-40S          | 5            | Rp 1 1/4 | 245             | 598  | 2,6            | 10,2                   |
| 2GS03M-40S          | 7            | Rp 1 1/4 | 280             | 633  | 2,9            | 10,5                   |
| 2GS05M-40S          | 10           | Rp 1 1/4 | 332             | 685  | 3,5            | 11,7                   |
| 2GS07M-40S          | 14           | Rp 1 1/4 | 402             | 780  | 4,2            | 13,5                   |
| 2GS11M-40S          | 20           | Rp 1 1/4 | 507             | 920  | 5,3            | 16,5                   |
| 2GS15M-40S          | 28           | Rp 1 1/4 | 680             | 1128 | 7,1            | 19,9                   |
| 2GS22M-40S          | 40           | Rp 1 1/4 | 914             | 1412 | 10,1           | 25,2                   |
| 2GS03T-40S          | 7            | Rp 1 1/4 | 280             | 612  | 2,9            | 10                     |
| 2GS05T-40S          | 10           | Rp 1 1/4 | 332             | 685  | 3,5            | 11,1                   |
| 2GS07T-40S          | 14           | Rp 1 1/4 | 402             | 755  | 4,2            | 12,4                   |
| 2GS11T-40S          | 20           | Rp 1 1/4 | 507             | 885  | 5,3            | 14,6                   |
| 2GS15T-40S          | 28           | Rp 1 1/4 | 680             | 1093 | 7,1            | 18,5                   |
| 2GS22T-40S          | 40           | Rp 1 1/4 | 914             | 1362 | 10,1           | 23                     |
| 2GS30T-40S          | 52           | Rp 1 1/4 | 1120            | 1568 | 12,2           | 26,1                   |

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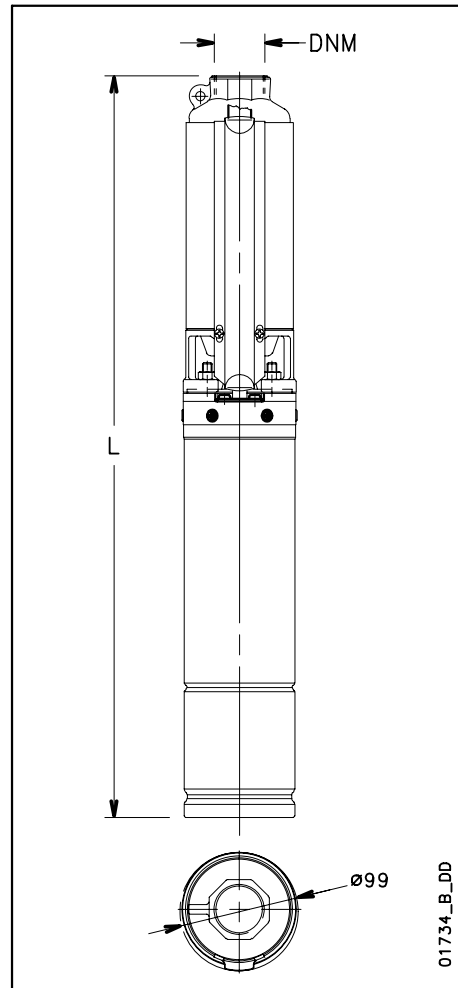
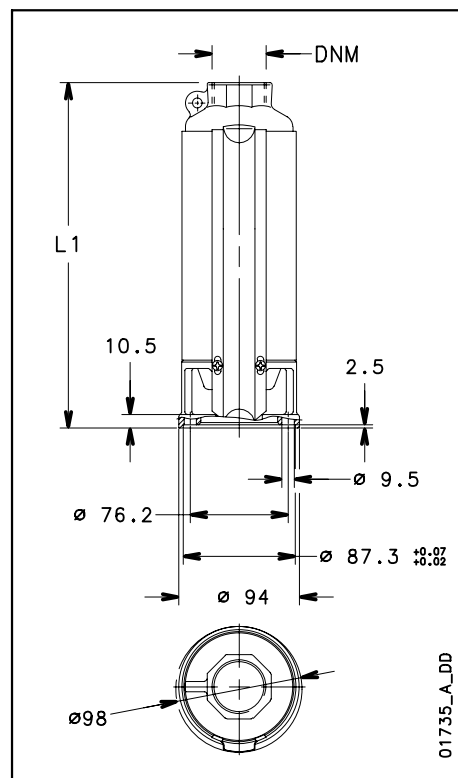
## 2GS..L4C SERIES

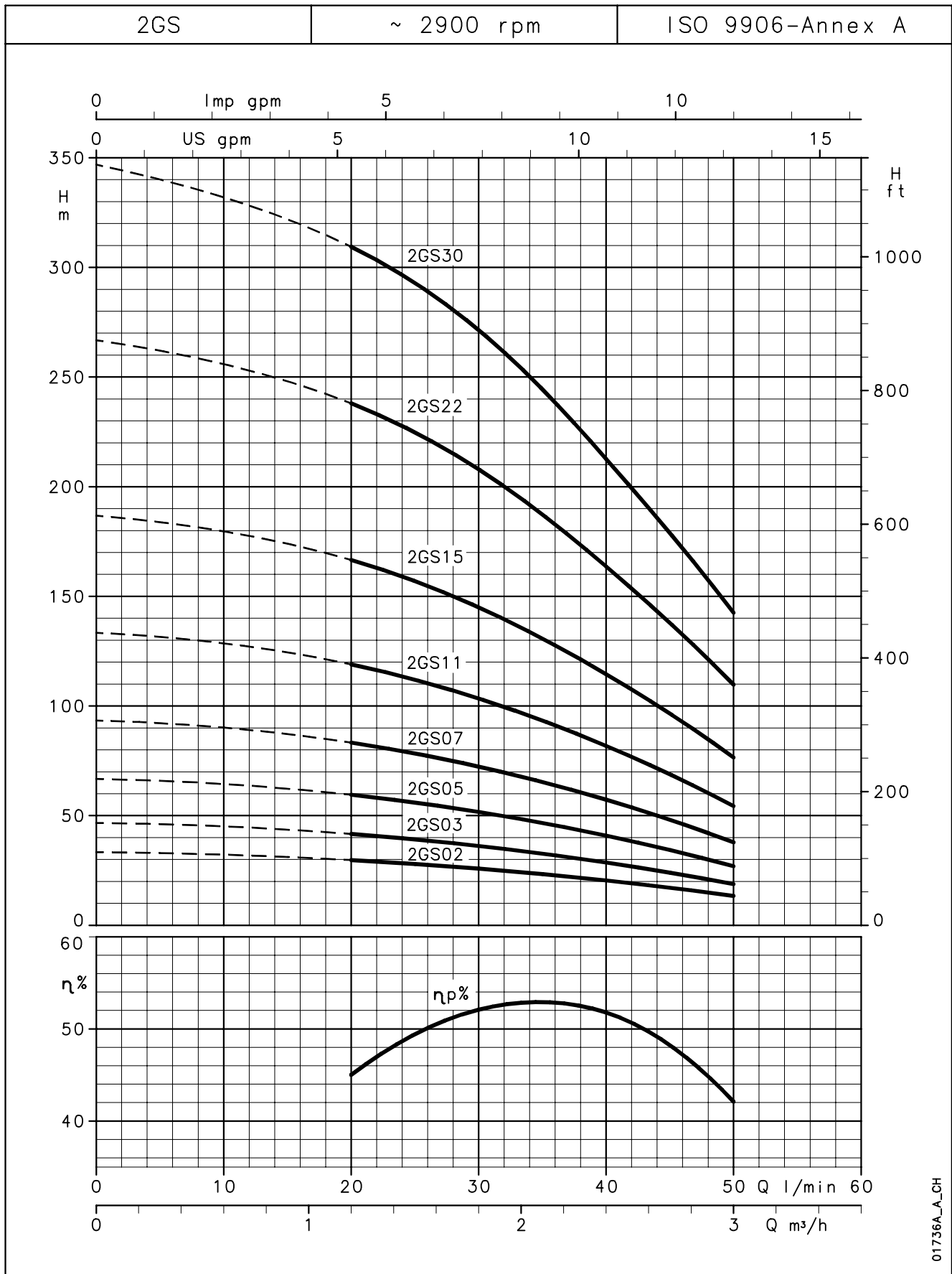
### DIMENSIONS AND WEIGHTS

| ELECTRO PUMP TYPE * | N. OF STAGES | DNM      | DIMENSIONS (mm) |      | PUMP WEIGHT kg | ELECTRO PUMP WEIGHT kg |
|---------------------|--------------|----------|-----------------|------|----------------|------------------------|
|                     |              |          | L1              | L    |                |                        |
| 2GS02M-L4C          | 5            | Rp 1 1/4 | 245             | 479  | 2,6            | 9,8                    |
| 2GS03M-L4C          | 7            | Rp 1 1/4 | 280             | 514  | 2,9            | 10,1                   |
| 2GS05M-L4C          | 10           | Rp 1 1/4 | 332             | 596  | 3,5            | 11,3                   |
| 2GS07M-L4C          | 14           | Rp 1 1/4 | 402             | 686  | 4,2            | 12,6                   |
| 2GS11M-L4C          | 20           | Rp 1 1/4 | 507             | 836  | 5,3            | 16,2                   |
| 2GS15M-L4C          | 28           | Rp 1 1/4 | 680             | 1071 | 7,1            | 19,8                   |
| 2GS22M-L4C          | 40           | Rp 1 1/4 | 914             | 1325 | 10,1           | 24,3                   |
| 2GS03T-L4C          | 7            | Rp 1 1/4 | 280             | 494  | 2,9            | 9,9                    |
| 2GS05T-L4C          | 10           | Rp 1 1/4 | 332             | 566  | 3,5            | 10,7                   |
| 2GS07T-L4C          | 14           | Rp 1 1/4 | 402             | 666  | 4,2            | 12                     |
| 2GS11T-L4C          | 20           | Rp 1 1/4 | 507             | 791  | 5,3            | 13,7                   |
| 2GS15T-L4C          | 28           | Rp 1 1/4 | 680             | 1026 | 7,1            | 19,1                   |
| 2GS22T-L4C          | 40           | Rp 1 1/4 | 914             | 1305 | 10,1           | 22,9                   |
| 2GS30T-L4C          | 52           | Rp 1 1/4 | 1120            | 1662 | 12,2           | 32,8                   |

\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

2gs-l4c-2p50-en\_a\_td



**2GS SERIES  
OPERATING CHARACTERISTICS AT 50 Hz**


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These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 4GS SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE | N. OF<br>STAGES | MOTOR<br>POWER                        |      | Q = DELIVERY |     |     |     |     |     |
|--------------|-----------------|---------------------------------------|------|--------------|-----|-----|-----|-----|-----|
|              |                 |                                       |      | l/min        | 0   | 30  | 40  | 60  | 80  |
|              |                 | m³/h                                  | 0    | 1,8          | 2,4 | 3,6 | 4,8 | 5,4 |     |
|              |                 | H = TOTAL HEAD METRES COLUMN OF WATER |      |              |     |     |     |     |     |
|              |                 | kW                                    | HP   |              |     |     |     |     |     |
| 4GS03M       | 4               | 0,37                                  | 0,5  | 27           | 24  | 23  | 19  | 13  | 9   |
| 4GS05M       | 7               | 0,55                                  | 0,75 | 47           | 42  | 40  | 33  | 22  | 15  |
| 4GS07M       | 9               | 0,75                                  | 1    | 60           | 54  | 51  | 42  | 28  | 19  |
| 4GS11M       | 14              | 1,1                                   | 1,5  | 94           | 84  | 80  | 66  | 44  | 30  |
| 4GS15M       | 19              | 1,5                                   | 2    | 127          | 114 | 108 | 89  | 60  | 40  |
| 4GS22M       | 27              | 2,2                                   | 3    | 181          | 162 | 154 | 127 | 85  | 57  |
| 4GS30T       | 35              | 3                                     | 4    | 228          | 204 | 194 | 160 | 107 | 72  |
| 4GS40T       | 48              | 4                                     | 5,5  | 321          | 288 | 274 | 226 | 151 | 102 |

4gs-2p50-en\_b\_th

## 4GS..4OS SERIES

### DIMENSIONS AND WEIGHTS

| ELECTRO PUMP TYPE * | N. OF STAGES | DNM      | DIMENSIONS (mm) |      | PUMP WEIGHT kg | ELECTRO PUMP WEIGHT kg |
|---------------------|--------------|----------|-----------------|------|----------------|------------------------|
|                     |              |          | L1              | L    |                |                        |
| 4GS03M-4OS          | 4            | Rp 1 1/4 | 245             | 598  | 2,5            | 10,1                   |
| 4GS05M-4OS          | 7            | Rp 1 1/4 | 309             | 662  | 3,1            | 11,3                   |
| 4GS07M-4OS          | 9            | Rp 1 1/4 | 352             | 730  | 3,5            | 12,8                   |
| 4GS11M-4OS          | 14           | Rp 1 1/4 | 460             | 873  | 4,6            | 15,8                   |
| 4GS15M-4OS          | 19           | Rp 1 1/4 | 568             | 1016 | 5,7            | 18,5                   |
| 4GS22M-4OS          | 27           | Rp 1 1/4 | 770             | 1268 | 7,6            | 22,7                   |
| 4GS03T-4OS          | 4            | Rp 1 1/4 | 245             | 577  | 2,5            | 9,6                    |
| 4GS05T-4OS          | 7            | Rp 1 1/4 | 309             | 662  | 3,1            | 10,7                   |
| 4GS07T-4OS          | 9            | Rp 1 1/4 | 352             | 705  | 3,5            | 11,7                   |
| 4GS11T-4OS          | 14           | Rp 1 1/4 | 460             | 838  | 4,6            | 13,9                   |
| 4GS15T-4OS          | 19           | Rp 1 1/4 | 568             | 981  | 5,7            | 17,1                   |
| 4GS22T-4OS          | 27           | Rp 1 1/4 | 770             | 1218 | 7,6            | 20,5                   |
| 4GS30T-4OS          | 35           | Rp 1 1/4 | 967             | 1415 | 9,6            | 23,5                   |
| 4GS40T-4OS          | 48           | Rp 1 1/4 | 1248            | 1816 | 12,8           | 30,6                   |

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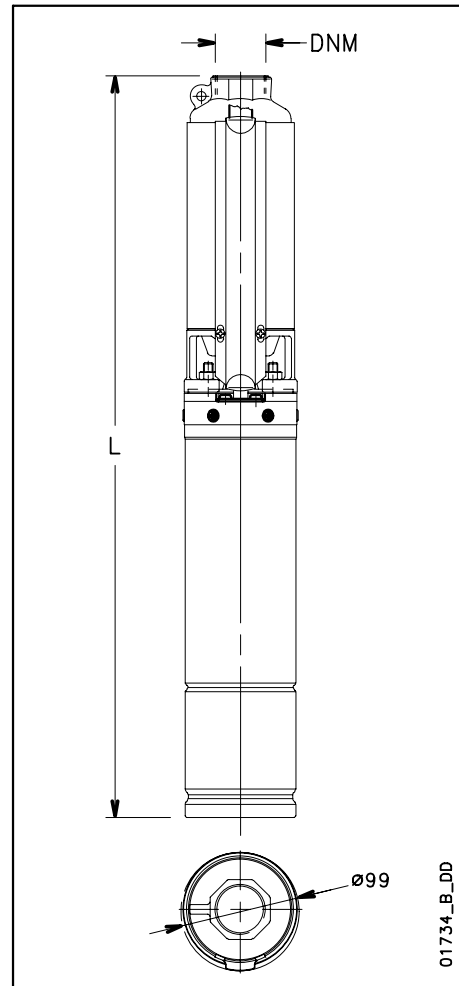
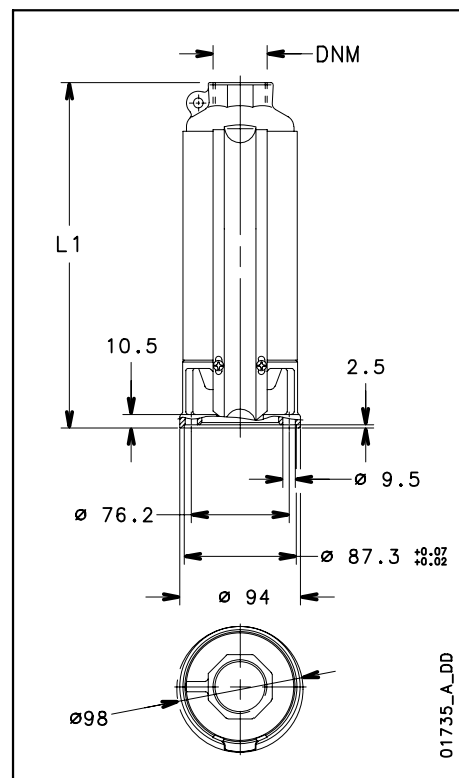
## 4GS..L4C SERIES

### DIMENSIONS AND WEIGHTS

| ELECTRO PUMP TYPE* | N. OF STAGES | DNM      | DIMENSIONS (mm) |      | PUMP WEIGHT kg | ELECTRO PUMP WEIGHT kg |
|--------------------|--------------|----------|-----------------|------|----------------|------------------------|
|                    |              |          | L1              | L    |                |                        |
| 4GS03M-L4C         | 4            | Rp 1 1/4 | 245             | 479  | 2,5            | 9,7                    |
| 4GS05M-L4C         | 7            | Rp 1 1/4 | 309             | 573  | 3,1            | 10,9                   |
| 4GS07M-L4C         | 9            | Rp 1 1/4 | 352             | 636  | 3,5            | 11,9                   |
| 4GS11M-L4C         | 14           | Rp 1 1/4 | 460             | 789  | 4,6            | 15,5                   |
| 4GS15M-L4C         | 19           | Rp 1 1/4 | 568             | 959  | 5,7            | 18,4                   |
| 4GS22M-L4C         | 27           | Rp 1 1/4 | 770             | 1181 | 7,6            | 21,8                   |
| 4GS03T-L4C         | 4            | Rp 1 1/4 | 245             | 459  | 2,5            | 9,5                    |
| 4GS05T-L4C         | 7            | Rp 1 1/4 | 309             | 543  | 3,1            | 10,3                   |
| 4GS07T-L4C         | 9            | Rp 1 1/4 | 352             | 616  | 3,5            | 11,3                   |
| 4GS11T-L4C         | 14           | Rp 1 1/4 | 460             | 744  | 4,6            | 13                     |
| 4GS15T-L4C         | 19           | Rp 1 1/4 | 568             | 914  | 5,7            | 17,7                   |
| 4GS22T-L4C         | 27           | Rp 1 1/4 | 770             | 1161 | 7,6            | 20,4                   |
| 4GS30T-L4C         | 35           | Rp 1 1/4 | 967             | 1509 | 9,6            | 30,2                   |
| 4GS40T-L4C         | 48           | Rp 1 1/4 | 1248            | 1860 | 12,8           | 36,5                   |

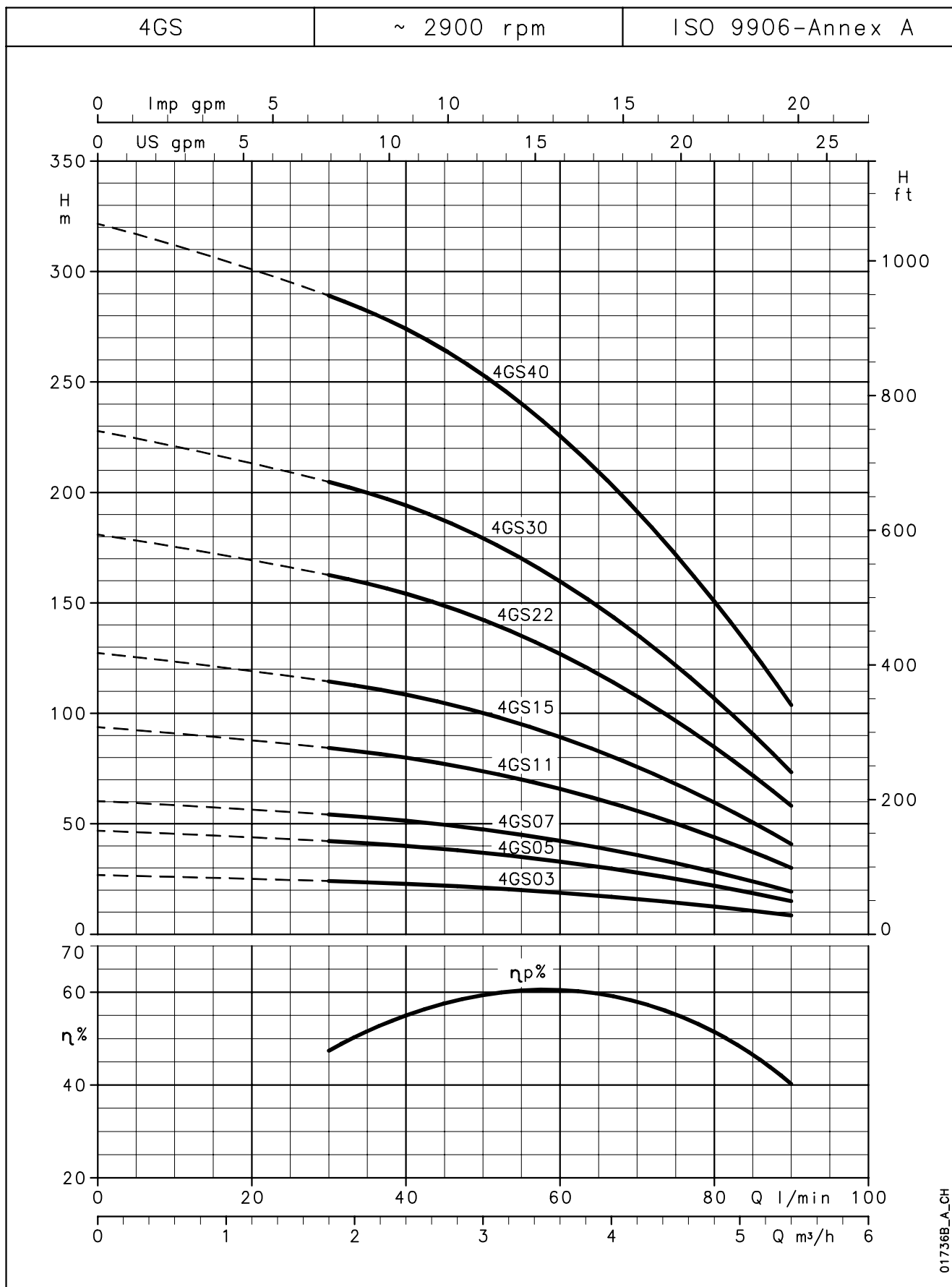
\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

4gs-l4c-2p50-en\_a\_td





# **4GS SERIES OPERATING CHARACTERISTICS AT 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 6GS SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE | N. OF<br>STAGES | MOTOR<br>POWER |      | Q = DELIVERY |                                       |     |     |     |      |     |
|--------------|-----------------|----------------|------|--------------|---------------------------------------|-----|-----|-----|------|-----|
|              |                 |                |      | l/min        | 0                                     | 50  | 70  | 90  | 110  | 133 |
|              |                 | m³/h           | 0    | 3            | 4,2                                   | 5,4 | 6,6 | 8   |      |     |
|              |                 | kW             |      | HP           | H = TOTAL HEAD METRES COLUMN OF WATER |     |     |     |      |     |
| 6GS05        | 5               | 0,55           | 0,75 | 30,5         | 25,8                                  | 23  | 21  | 17  | 11,5 |     |
| 6GS07        | 7               | 0,75           | 1    | 42,7         | 36,1                                  | 33  | 29  | 24  | 16,1 |     |
| 6GS11        | 10              | 1,1            | 1,5  | 61           | 51,6                                  | 47  | 41  | 34  | 23   |     |
| 6GS15        | 14              | 1,5            | 2    | 85,4         | 72,2                                  | 66  | 58  | 48  | 32,2 |     |
| 6GS22        | 21              | 2,2            | 3    | 128          | 108                                   | 99  | 87  | 71  | 48,3 |     |
| 6GS30        | 29              | 3              | 4    | 177          | 150                                   | 136 | 120 | 99  | 66,7 |     |
| 6GS40        | 38              | 4              | 5,5  | 232          | 196                                   | 179 | 157 | 129 | 87,4 |     |
| 6GS55        | 52              | 5,5            | 7,5  | 317          | 268                                   | 244 | 215 | 177 | 120  |     |

6gs-2p50-en\_c\_th

## 6GS..4OS SERIES

### DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM      | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|----------|--------------------|------|----------------------|---------------------------------|
|                           |                 |          | L1                 | L    |                      |                                 |
| 6GS05M-4OS                | 5               | Rp 1 1/4 | 329                | 682  | 3,5                  | 11,7                            |
| 6GS07M-4OS                | 7               | Rp 1 1/4 | 390                | 768  | 4,2                  | 13,5                            |
| 6GS11M-4OS                | 10              | Rp 1 1/4 | 485                | 898  | 5,1                  | 16,3                            |
| 6GS15M-4OS                | 14              | Rp 1 1/4 | 645                | 1093 | 6,8                  | 19,6                            |
| 6GS22M-4OS                | 21              | Rp 1 1/4 | 862                | 1360 | 9,1                  | 24,2                            |
| 6GS05T-4OS                | 5               | Rp 1 1/4 | 329                | 682  | 3,5                  | 11,1                            |
| 6GS07T-4OS                | 7               | Rp 1 1/4 | 390                | 743  | 4,2                  | 12,4                            |
| 6GS11T-4OS                | 10              | Rp 1 1/4 | 485                | 863  | 5,1                  | 14,4                            |
| 6GS15T-4OS                | 14              | Rp 1 1/4 | 645                | 1058 | 6,8                  | 18,2                            |
| 6GS22T-4OS                | 21              | Rp 1 1/4 | 862                | 1310 | 9,1                  | 22                              |
| 6GS30T-4OS                | 29              | Rp 1 1/4 | 1127               | 1575 | 11,8                 | 25,7                            |
| 6GS40T-4OS                | 38              | Rp 1 1/4 | 1406               | 1974 | 14,7                 | 32,5                            |
| 6GS55T-4OS                | 52              | Rp 1 1/4 | 1840               | 2468 | 19,3                 | 40,6                            |

6gs-4os-2p50-en\_a\_td

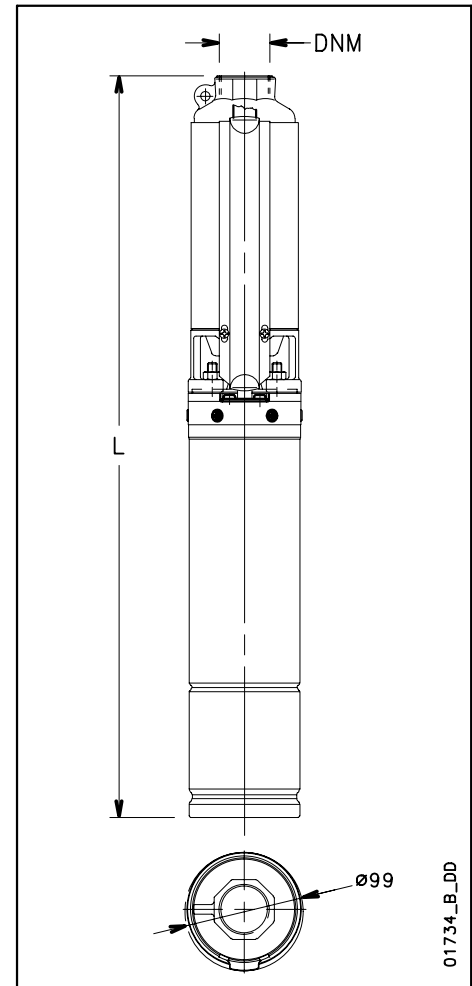
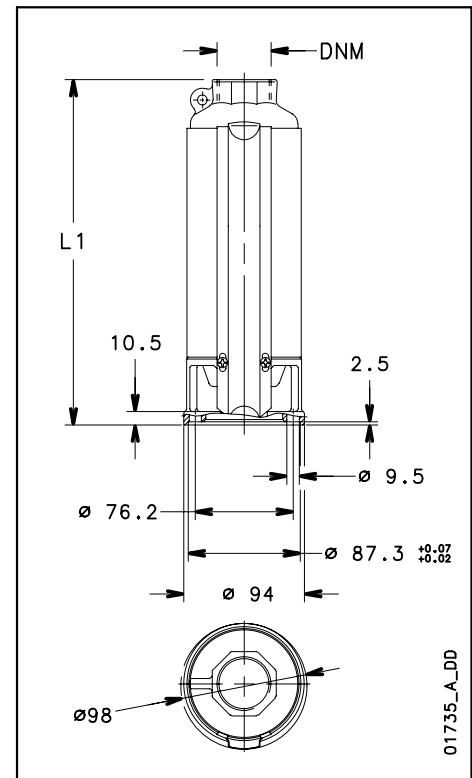
## 6GS..L4C SERIES

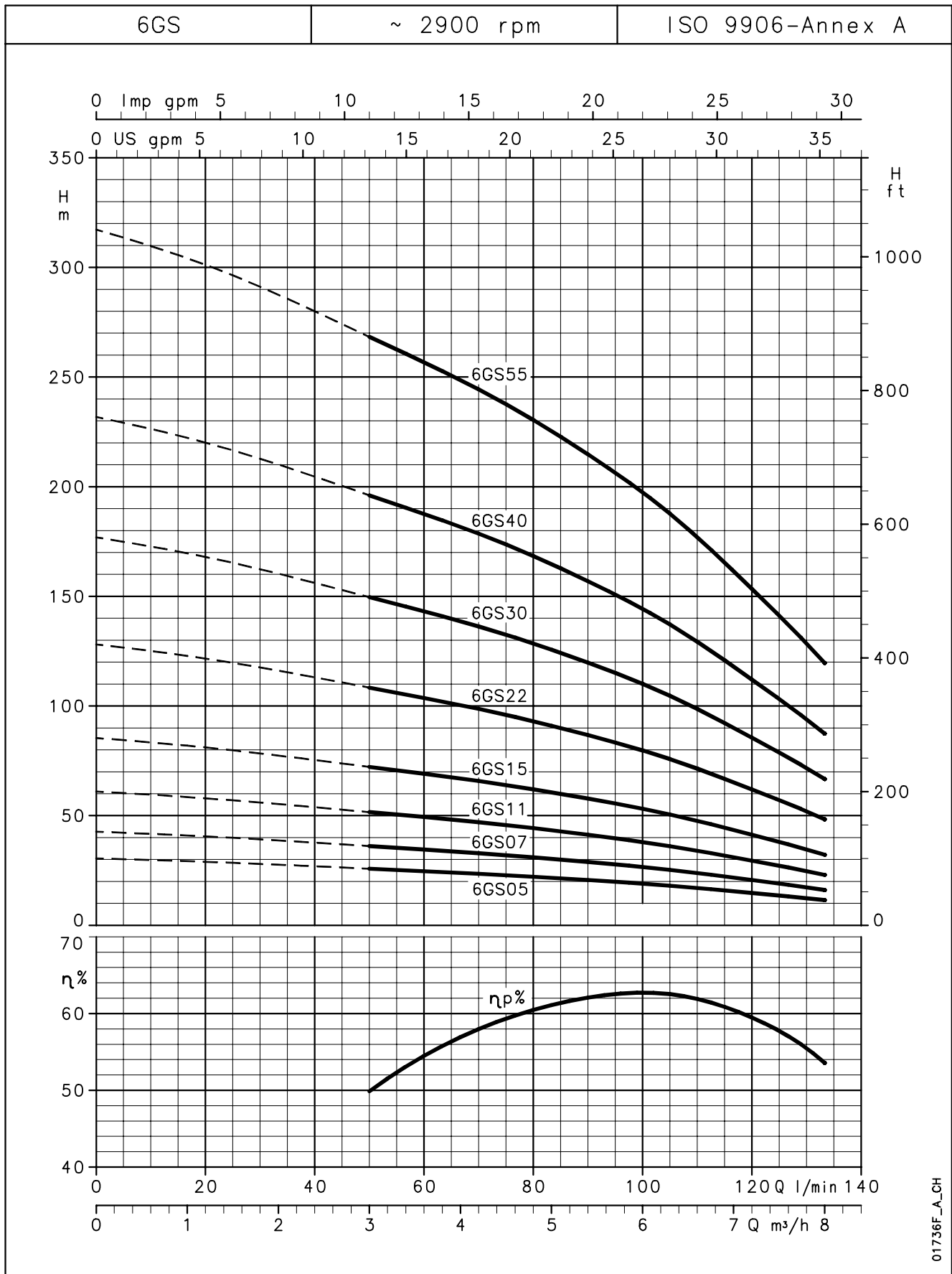
### DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM      | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|----------|--------------------|------|----------------------|---------------------------------|
|                           |                 |          | L1                 | L    |                      |                                 |
| 6GS05M-L4C                | 5               | Rp 1 1/4 | 329                | 593  | 3,5                  | 11,3                            |
| 6GS07M-L4C                | 7               | Rp 1 1/4 | 390                | 674  | 4,2                  | 12,6                            |
| 6GS11M-L4C                | 10              | Rp 1 1/4 | 485                | 814  | 5,1                  | 16                              |
| 6GS15M-L4C                | 14              | Rp 1 1/4 | 645                | 1036 | 6,8                  | 19,5                            |
| 6GS22M-L4C                | 21              | Rp 1 1/4 | 862                | 1273 | 9,1                  | 23,3                            |
| 6GS05T-L4C                | 5               | Rp 1 1/4 | 329                | 563  | 3,5                  | 10,7                            |
| 6GS07T-L4C                | 7               | Rp 1 1/4 | 390                | 654  | 4,2                  | 12                              |
| 6GS11T-L4C                | 10              | Rp 1 1/4 | 485                | 769  | 5,1                  | 13,5                            |
| 6GS15T-L4C                | 14              | Rp 1 1/4 | 645                | 991  | 6,8                  | 18,8                            |
| 6GS22T-L4C                | 21              | Rp 1 1/4 | 862                | 1253 | 9,1                  | 21,9                            |
| 6GS30T-L4C                | 29              | Rp 1 1/4 | 1127               | 1669 | 11,8                 | 32,4                            |
| 6GS40T-L4C                | 38              | Rp 1 1/4 | 1406               | 2018 | 14,7                 | 38,4                            |
| 6GS55T-L4C                | 52              | Rp 1 1/4 | 1840               | 2522 | 19,3                 | 46,3                            |

\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

6gs-l4c-2p50-en\_a\_td



**6GS SERIES  
OPERATING CHARACTERISTICS AT 50 Hz**


These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 8GS SERIES

### OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE | N. OF<br>STAGES | MOTOR<br>POWER |     | Q = DELIVERY                          |     |     |     |     |     |     |
|--------------|-----------------|----------------|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|
|              |                 |                |     | l/min                                 | 0   | 67  | 100 | 120 | 140 | 183 |
|              |                 |                |     | m³/h                                  | 0   | 4   | 6   | 7,2 | 8,4 | 11  |
|              |                 |                |     | H = TOTAL HEAD METRES COLUMN OF WATER |     |     |     |     |     |     |
|              |                 | kW             | HP  |                                       |     |     |     |     |     |     |
| 8GS07        | 4               | 0,75           | 1   | 26                                    | 23  | 22  | 20  | 18  | 11  |     |
| 8GS11        | 6               | 1,1            | 1,5 | 39                                    | 35  | 33  | 31  | 28  | 17  |     |
| 8GS15        | 8               | 1,5            | 2   | 52                                    | 46  | 44  | 41  | 37  | 22  |     |
| 8GS22        | 13              | 2,2            | 3   | 85                                    | 75  | 71  | 67  | 60  | 36  |     |
| 8GS30        | 17              | 3              | 4   | 111                                   | 98  | 93  | 87  | 78  | 47  |     |
| 8GS40        | 23              | 4              | 5,5 | 150                                   | 133 | 126 | 118 | 106 | 63  |     |
| 8GS55        | 32              | 5,5            | 7,5 | 208                                   | 185 | 175 | 164 | 147 | 88  |     |
| 8GS75        | 43              | 7.5            | 10  | 280                                   | 249 | 235 | 220 | 198 | 118 |     |

8gs-2p50-en\_c\_th

## 8GS..4OS SERIES

### DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 8GS07M-4OS                | 4               | Rp 2 | 299                | 677  | 3,2                  | 12,5                            |
| 8GS11M-4OS                | 6               | Rp 2 | 361                | 774  | 3,8                  | 15                              |
| 8GS15M-4OS                | 8               | Rp 2 | 423                | 871  | 4,5                  | 17,3                            |
| 8GS22M-4OS                | 13              | Rp 2 | 580                | 1078 | 6                    | 21,1                            |
| 8GS07T-4OS                | 4               | Rp 2 | 299                | 652  | 3,2                  | 11,4                            |
| 8GS11T-4OS                | 6               | Rp 2 | 361                | 739  | 3,8                  | 13,1                            |
| 8GS15T-4OS                | 8               | Rp 2 | 423                | 836  | 4,5                  | 15,9                            |
| 8GS22T-4OS                | 13              | Rp 2 | 580                | 1028 | 6                    | 18,9                            |
| 8GS30T-4OS                | 17              | Rp 2 | 740                | 1188 | 7,8                  | 21,7                            |
| 8GS40T-4OS                | 23              | Rp 2 | 926                | 1494 | 9,6                  | 27,4                            |
| 8GS55T-4OS                | 32              | Rp 2 | 1224               | 1852 | 12,8                 | 34,1                            |
| 8GS75T-4OS                | 43              | Rp 2 | 1563               | 2397 | 16,2                 | 45                              |

8gs-4os-2p50-en\_a\_td

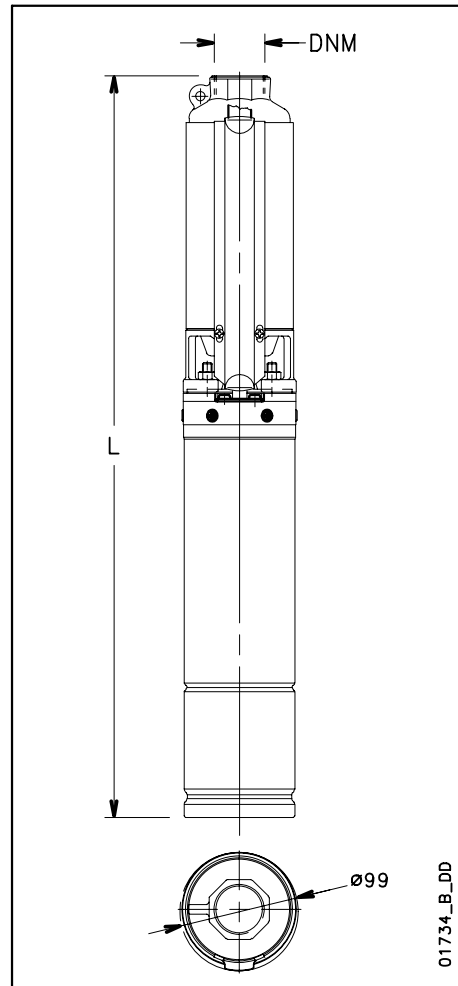
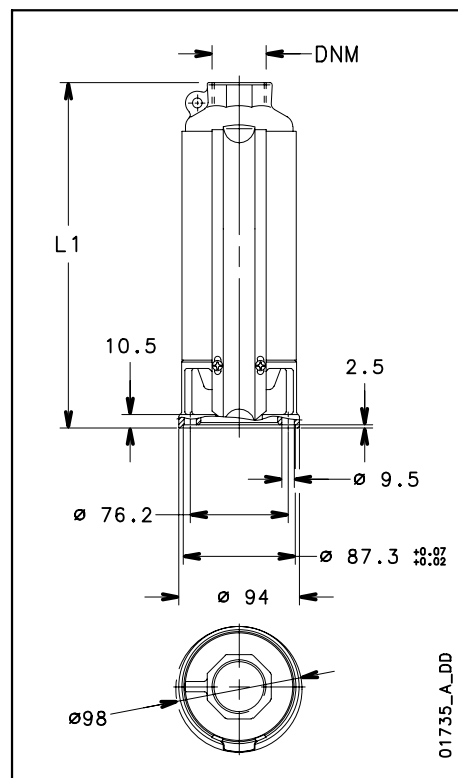
## 8GS..L4C SERIES

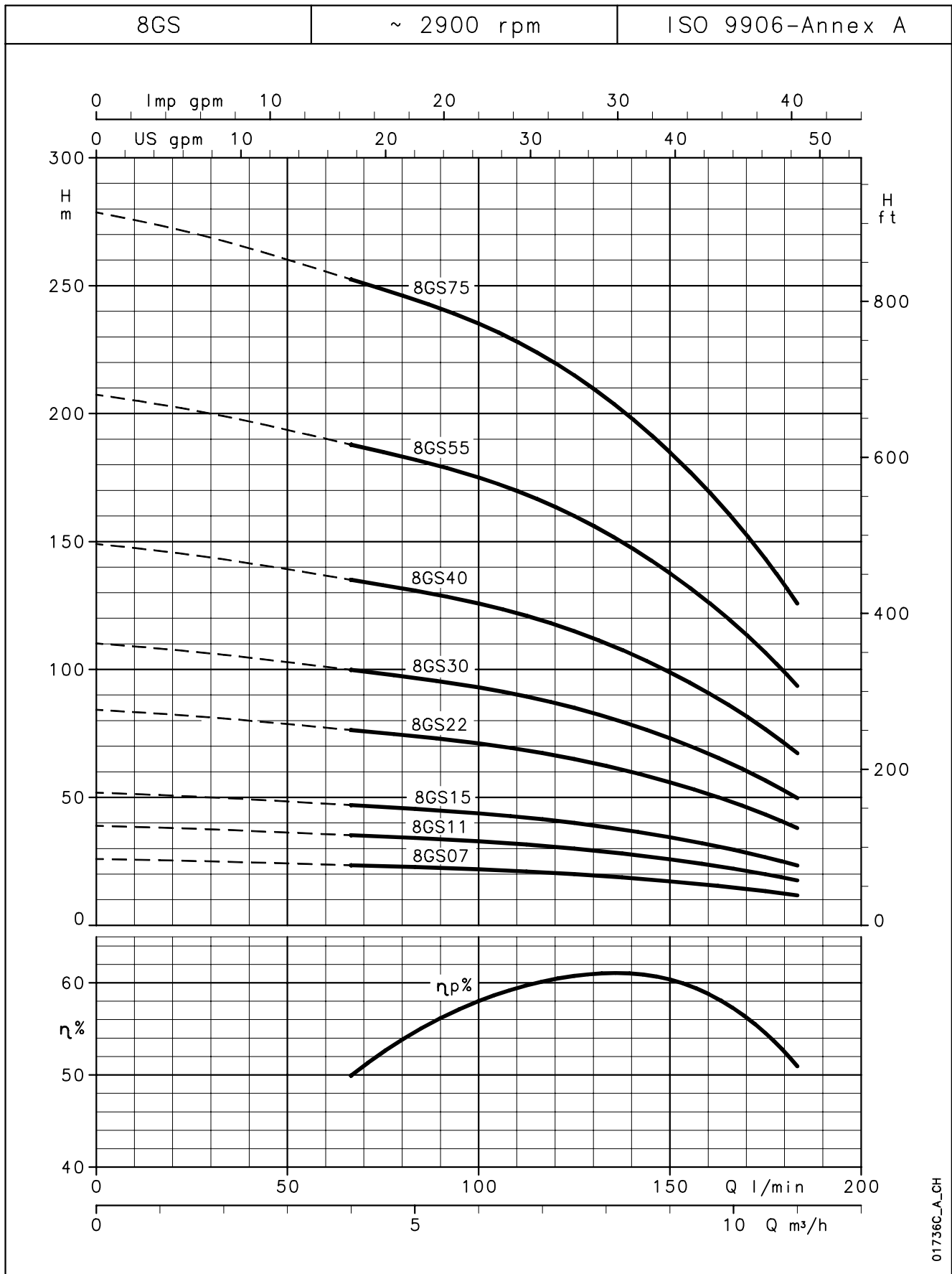
### DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 8GS07M-L4C                | 4               | Rp 2 | 299                | 583  | 3,2                  | 11,6                            |
| 8GS11M-L4C                | 6               | Rp 2 | 361                | 690  | 3,8                  | 14,7                            |
| 8GS15M-L4C                | 8               | Rp 2 | 423                | 814  | 4,5                  | 17,2                            |
| 8GS22M-L4C                | 13              | Rp 2 | 580                | 991  | 6                    | 20,2                            |
| 8GS07T-L4C                | 4               | Rp 2 | 299                | 563  | 3,2                  | 11                              |
| 8GS11T-L4C                | 6               | Rp 2 | 361                | 645  | 3,8                  | 12,2                            |
| 8GS15T-L4C                | 8               | Rp 2 | 423                | 769  | 4,5                  | 16,5                            |
| 8GS22T-L4C                | 13              | Rp 2 | 580                | 971  | 6                    | 18,8                            |
| 8GS30T-L4C                | 17              | Rp 2 | 740                | 1282 | 7,8                  | 28,4                            |
| 8GS40T-L4C                | 23              | Rp 2 | 926                | 1538 | 9,6                  | 33,3                            |
| 8GS55T-L4C                | 32              | Rp 2 | 1224               | 1906 | 12,8                 | 39,8                            |
| 8GS75T-L4C                | 43              | Rp 2 | 1563               | 2325 | 16,2                 | 45,4                            |

\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

8gs-l4c-2p50-en\_a\_td



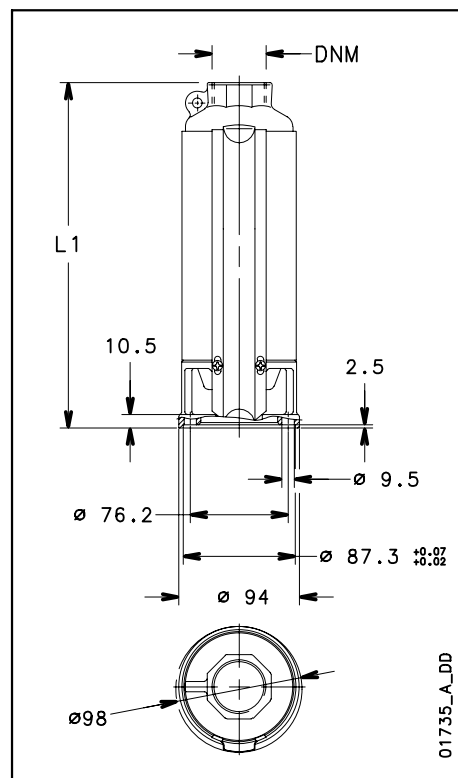
**8GS SERIES  
OPERATING CHARACTERISTICS AT 50 Hz**


These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 12GS SERIES OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE | N. OF<br>STAGES | MOTOR<br>POWER                        |     | Q = DELIVERY |       |      |     |     |      |
|--------------|-----------------|---------------------------------------|-----|--------------|-------|------|-----|-----|------|
|              |                 |                                       |     | l/min        | 0     | 100  | 150 | 175 | 200  |
|              |                 | m³/h                                  | 0   | 6            | 9     | 10,5 | 12  | 15  |      |
|              |                 | H = TOTAL HEAD METRES COLUMN OF WATER |     |              |       |      |     |     |      |
| 12GS15       | 7               | 1,5                                   | 2   | 43,9         | 37,3  | 31   | 28  | 24  | 14,6 |
| 12GS22       | 11              | 2,2                                   | 3   | 69           | 58,4  | 49   | 43  | 37  | 22,5 |
| 12GS30       | 15              | 3                                     | 4   | 94           | 79,4  | 67   | 59  | 50  | 30   |
| 12GS40       | 20              | 4                                     | 5,5 | 128,6        | 109,9 | 94   | 84  | 73  | 46   |
| 12GS55       | 27              | 5,5                                   | 7,5 | 173,6        | 148,3 | 127  | 113 | 98  | 62   |
| 12GS75       | 35              | 7,5                                   | 10  | 221,8        | 190,2 | 163  | 146 | 126 | 80   |

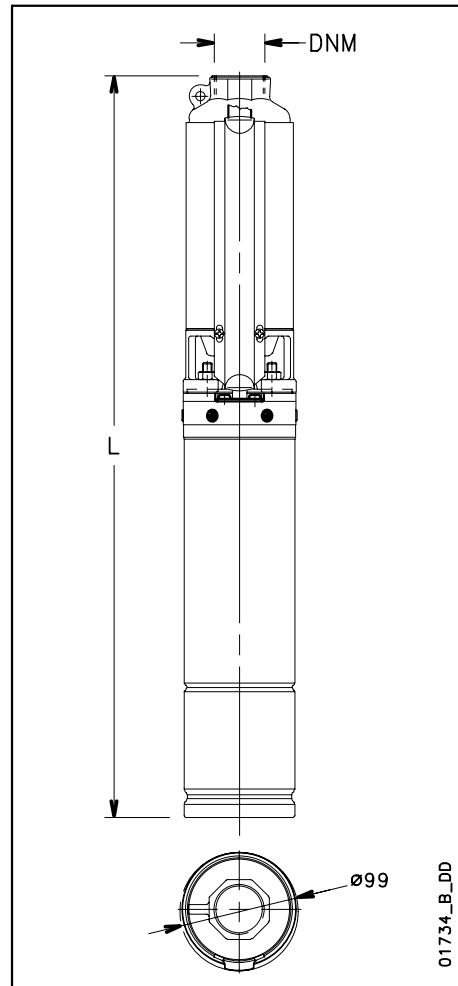
12gs-2p50-en\_b\_th



## 12GS..4OS SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 12GS15M-4OS               | 7               | Rp 2 | 539                | 987  | 5,2                  | 18                              |
| 12GS22M-4OS               | 11              | Rp 2 | 785                | 1283 | 7,9                  | 23                              |
| 12GS15T-4OS               | 7               | Rp 2 | 539                | 952  | 5,2                  | 16,6                            |
| 12GS22T-4OS               | 11              | Rp 2 | 785                | 1233 | 7,9                  | 20,8                            |
| 12GS30T-4OS               | 15              | Rp 2 | 992                | 1440 | 10                   | 23,9                            |
| 12GS40T-4OS               | 20              | Rp 2 | 1252               | 1820 | 12,6                 | 30,4                            |
| 12GS55T-4OS               | 27              | Rp 2 | 1634               | 2262 | 16,8                 | 38,1                            |
| 12GS75T-4OS               | 35              | Rp 2 | 2049               | 2883 | 20,9                 | 49,7                            |

12gs-4os-2p50-en\_a\_td

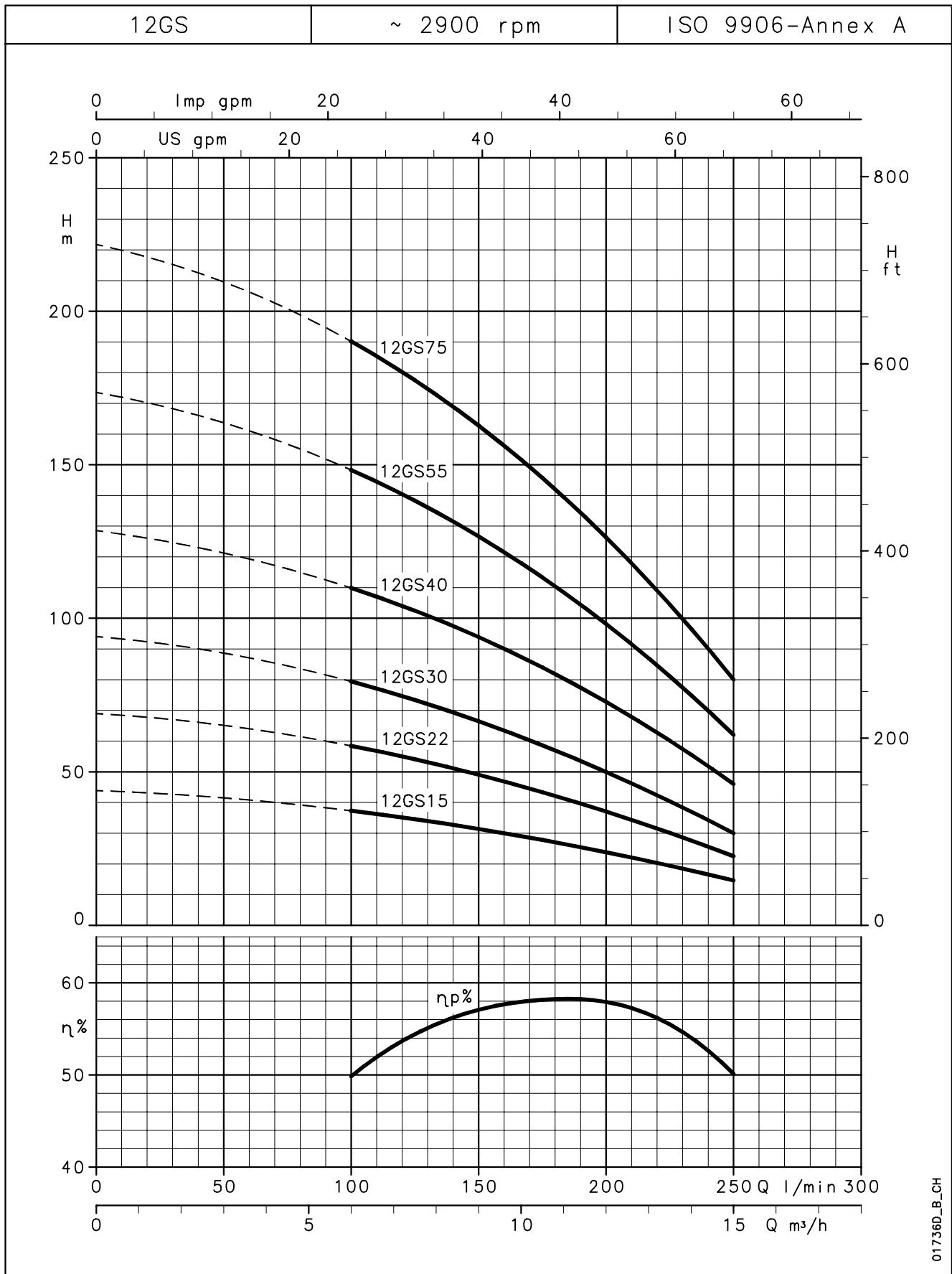


## 12GS..L4C SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 12GS15M-L4C               | 7               | Rp 2 | 539                | 930  | 5,2                  | 17,9                            |
| 12GS22M-L4C               | 11              | Rp 2 | 785                | 1196 | 7,9                  | 22,1                            |
| 12GS15T-L4C               | 7               | Rp 2 | 539                | 885  | 5,2                  | 17,2                            |
| 12GS22T-L4C               | 11              | Rp 2 | 785                | 1176 | 7,9                  | 20,7                            |
| 12GS30T-L4C               | 15              | Rp 2 | 992                | 1534 | 10                   | 30,6                            |
| 12GS40T-L4C               | 20              | Rp 2 | 1252               | 1864 | 12,6                 | 36,3                            |
| 12GS55T-L4C               | 27              | Rp 2 | 1634               | 2316 | 16,8                 | 43,8                            |
| 12GS75T-L4C               | 35              | Rp 2 | 2049               | 2811 | 20,9                 | 50,1                            |

\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

12gs-l4c-2p50-en\_a\_td

**12GS SERIES  
OPERATING CHARACTERISTICS AT 50 Hz**


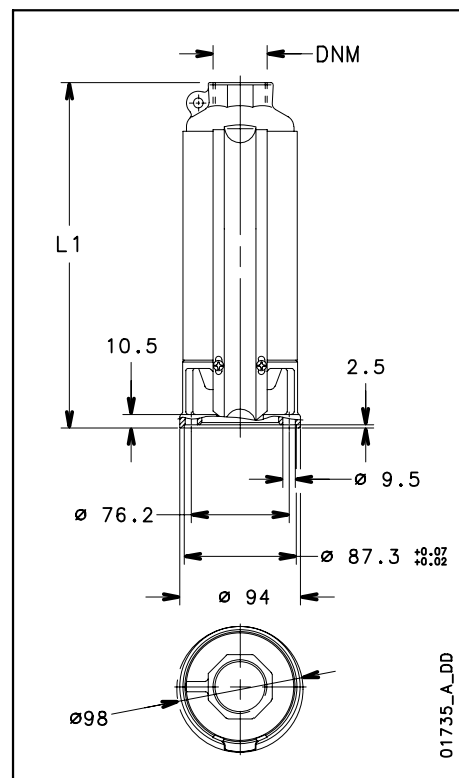
017360\_B\_CH

These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## 16GS SERIES OPERATING CHARACTERISTICS AT 50 Hz

| PUMP<br>TYPE | N. OF<br>STAGES | MOTOR<br>POWER                        |     | Q = DELIVERY |       |     |     |     |      |
|--------------|-----------------|---------------------------------------|-----|--------------|-------|-----|-----|-----|------|
|              |                 |                                       |     | l/min        | 0     | 133 | 200 | 250 | 300  |
|              |                 | m³/h                                  | 0   | 8            | 12    | 15  | 18  | 22  |      |
|              |                 | H = TOTAL HEAD METRES COLUMN OF WATER |     |              |       |     |     |     |      |
| 16GS22       | 9               | 2,2                                   | 3   | 49,5         | 40,3  | 34  | 29  | 23  | 14   |
| 16GS30       | 12              | 3                                     | 4   | 66           | 54    | 46  | 39  | 31  | 20,4 |
| 16GS40       | 16              | 4                                     | 5,5 | 92,1         | 74,9  | 64  | 54  | 44  | 29   |
| 16GS55       | 21              | 5,5                                   | 7,5 | 120,9        | 98,6  | 84  | 72  | 59  | 39   |
| 16GS75       | 28              | 7,5                                   | 10  | 161,2        | 131,5 | 112 | 96  | 78  | 52   |

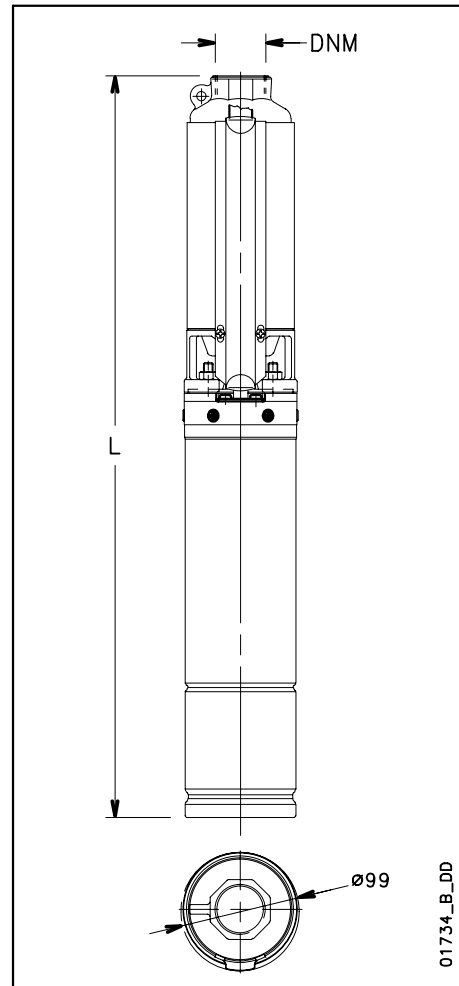
16gs-2p50-en\_b\_th



## 16GS..4OS SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 16GS22M-4OS               | 9               | Rp 2 | 749                | 1247 | 7,7                  | 22,8                            |
| 16GS22T-4OS               | 9               | Rp 2 | 749                | 1197 | 7,7                  | 20,6                            |
| 16GS30T-4OS               | 12              | Rp 2 | 953                | 1401 | 9,7                  | 23,6                            |
| 16GS40T-4OS               | 16              | Rp 2 | 1224               | 1792 | 12,4                 | 30,2                            |
| 16GS55T-4OS               | 21              | Rp 2 | 1620               | 2248 | 16,5                 | 37,8                            |
| 16GS75T-4OS               | 28              | Rp 2 | 2096               | 2930 | 21,2                 | 50                              |

16gs-4os-2p50-en\_a\_td



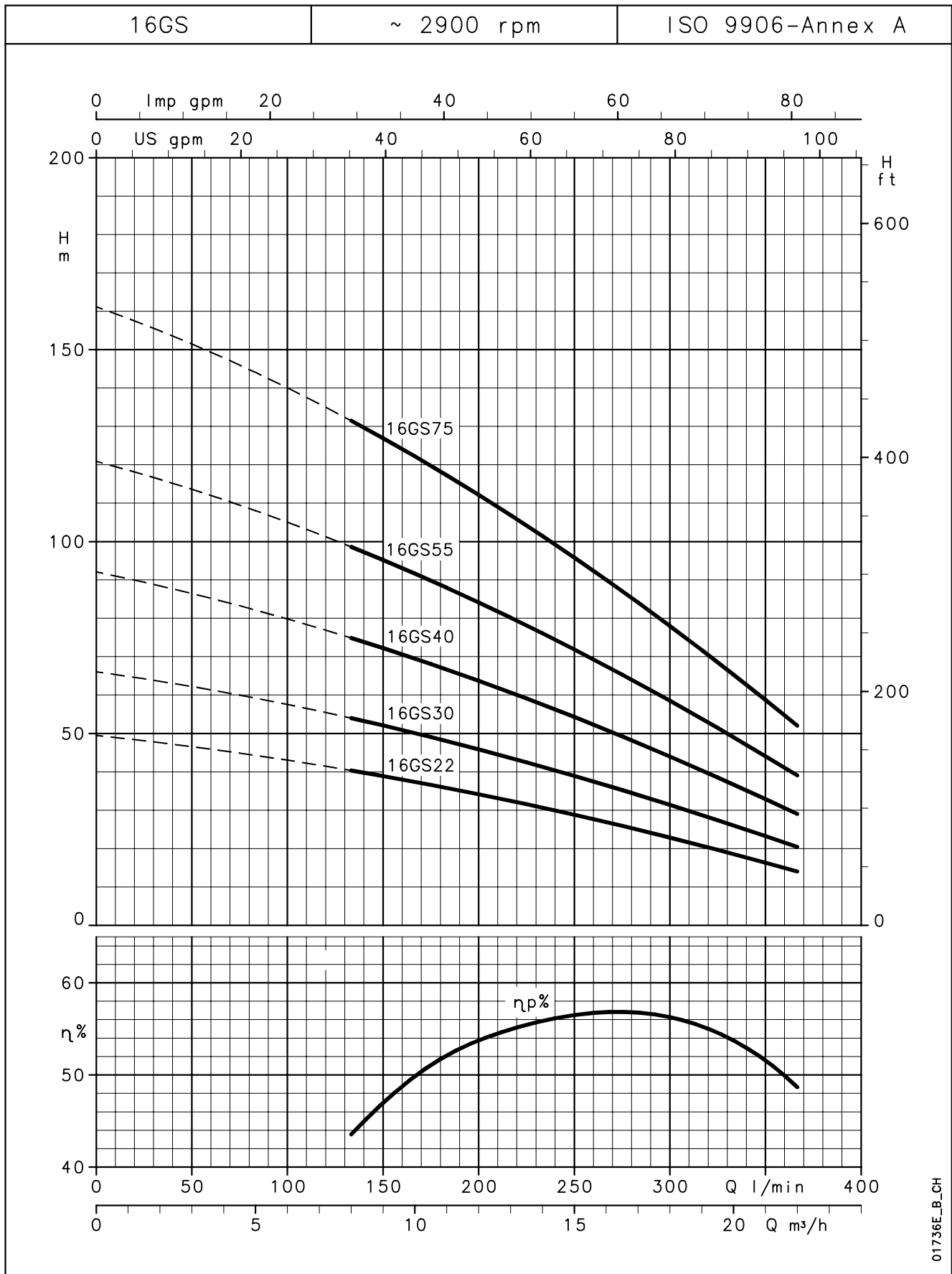
## 16GS..L4C SERIES DIMENSIONS AND WEIGHTS

| ELECTRO<br>PUMP<br>TYPE * | N. OF<br>STAGES | DNM  | DIMENSIONS<br>(mm) |      | PUMP<br>WEIGHT<br>kg | ELECTRO<br>PUMP<br>WEIGHT<br>kg |
|---------------------------|-----------------|------|--------------------|------|----------------------|---------------------------------|
|                           |                 |      | L1                 | L    |                      |                                 |
| 16GS22M-L4C               | 9               | Rp 2 | 749                | 1160 | 7,7                  | 21,9                            |
| 16GS22T-L4C               | 9               | Rp 2 | 749                | 1140 | 7,7                  | 20,5                            |
| 16GS30T-L4C               | 12              | Rp 2 | 953                | 1495 | 9,7                  | 30,3                            |
| 16GS40T-L4C               | 16              | Rp 2 | 1224               | 1836 | 12,4                 | 36,1                            |
| 16GS55T-L4C               | 21              | Rp 2 | 1620               | 2302 | 16,5                 | 43,5                            |
| 16GS75T-L4C               | 28              | Rp 2 | 2096               | 2858 | 21,2                 | 50,4                            |

\* Electric pumps exceeding 1500 mm in length are supplied uncoupled.  
Motor and pump are packed separately.

16gs-l4c-2p50-en\_a\_td

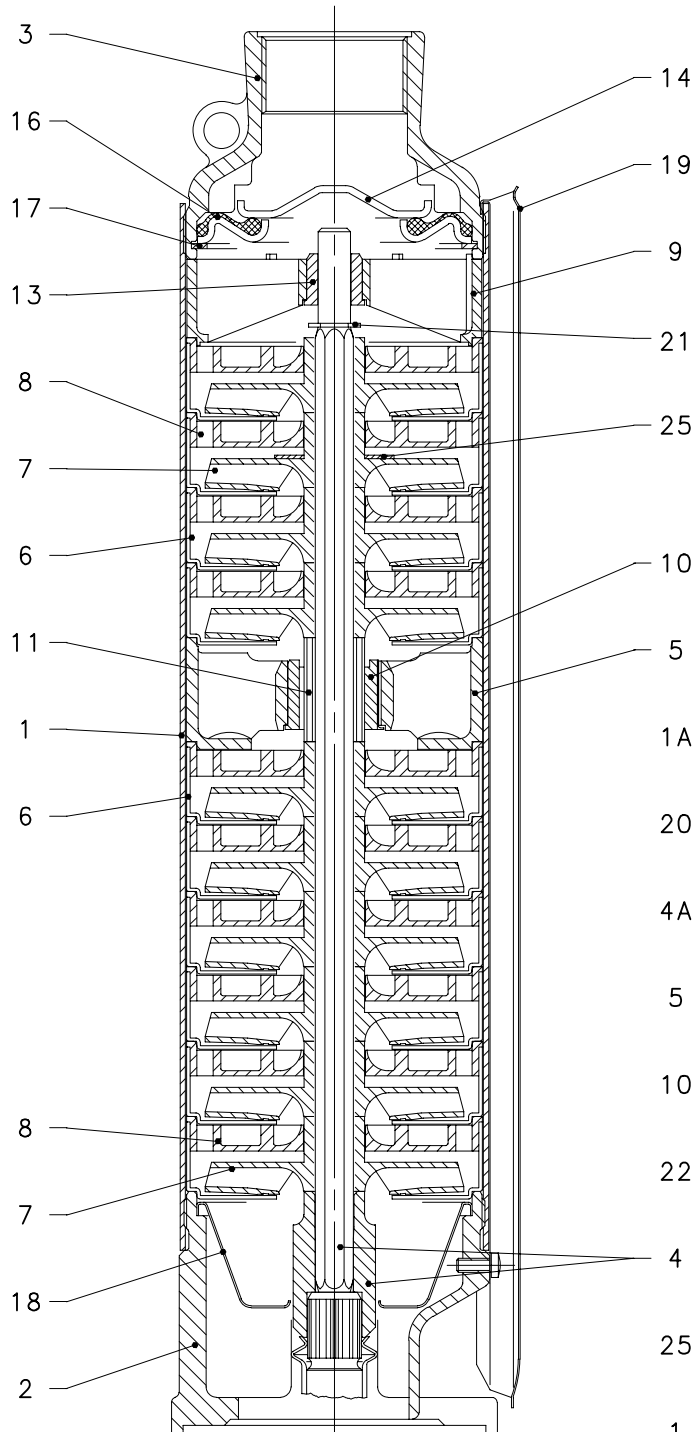


**16GS SERIES  
OPERATING CHARACTERISTICS AT 50 Hz**


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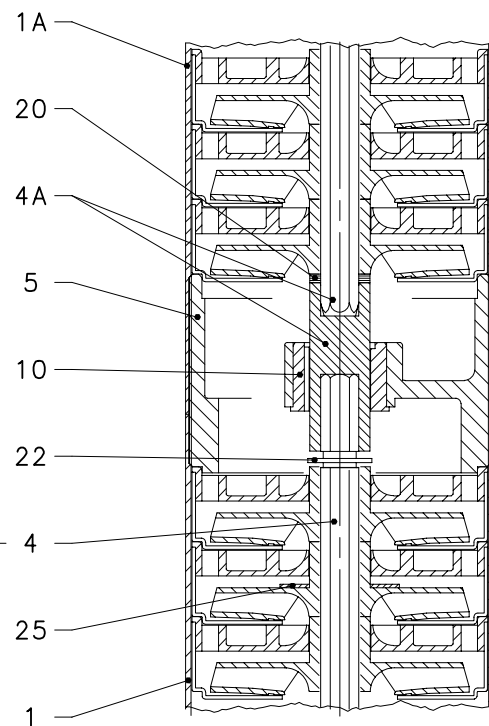
These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

# **1GSL - 2GS - 4GS SERIES** **PUMP SECTION AND LIST OF MAIN COMPONENTS**



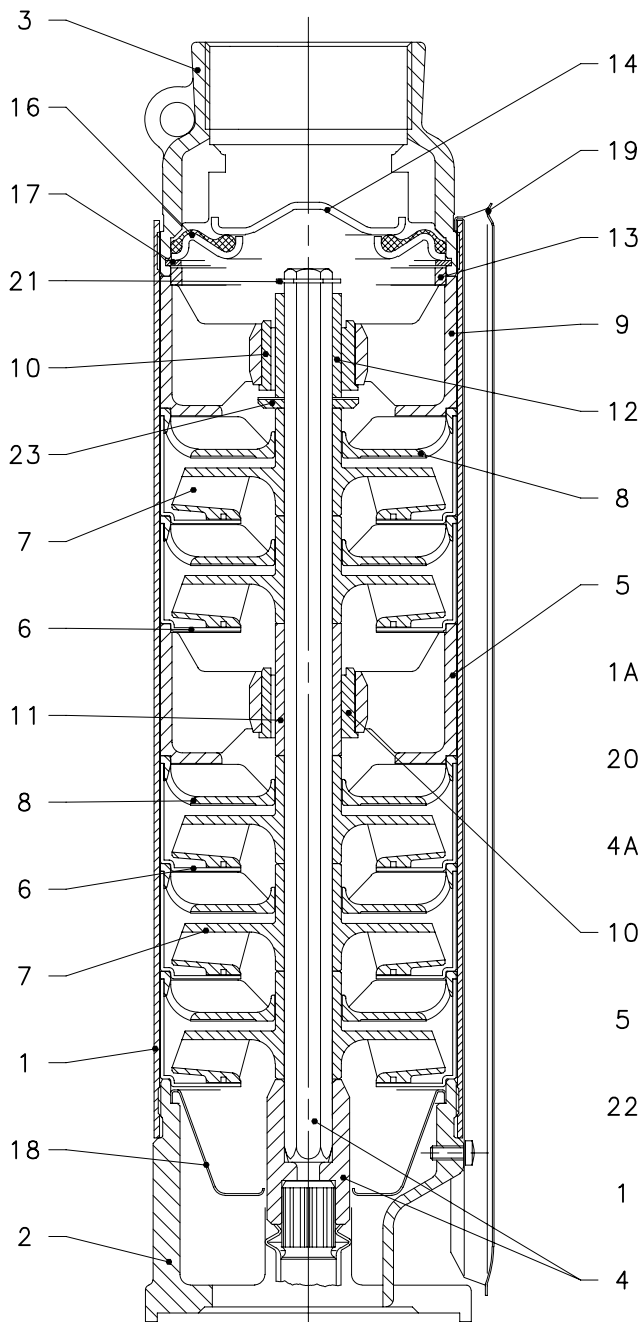
| REF. N. | DESCRIPTION               |
|---------|---------------------------|
| 1       | Sleeve                    |
| 1A      | Upper sleeve              |
| 2       | Lower support             |
| 3       | Delivery port             |
| 4       | Shaft with coupling       |
| 4A      | Upper shaft with coupling |
| 5       | Intermediate support      |
| 6       | Wear box                  |
| 7       | Impeller                  |
| 8       | Diffuser                  |
| 9       | Upper support             |
| 10      | Intermediate bush bearing |
| 11      | Shaft sleeve              |
| 13      | Upper bush bearing        |
| 14      | Valve cup                 |
| 16      | Valve support with gasket |
| 17      | Valve lock ring           |
| 18      | Filter                    |
| 19      | Cable guard               |
| 20      | Impeller shim             |
| 21      | Upper split ring          |
| 22      | Intermediate split ring   |
| 25      | Washer                    |

1gsl-2gs-4gs-2p50-en\_a\_tp



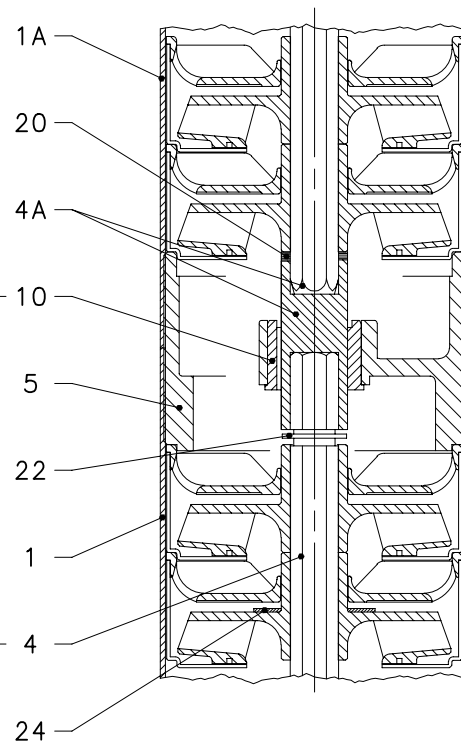
01731A\_B\_DS

## 6GS - 8GS SERIES PUMP SECTION AND LIST OF MAIN COMPONENTS



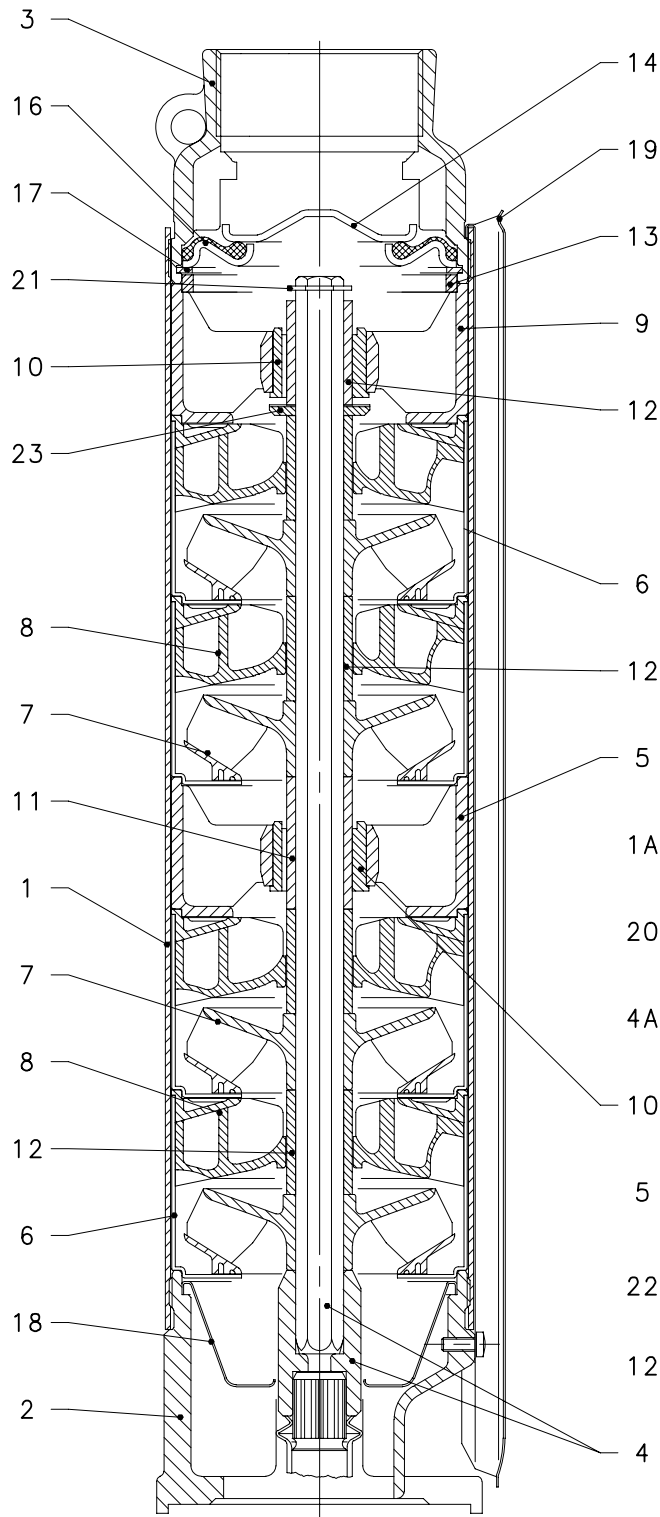
| REF. N. | DESCRIPTION               |
|---------|---------------------------|
| 1       | Sleeve                    |
| 1A      | Upper sleeve              |
| 2       | Lower support             |
| 3       | Delivery port             |
| 4       | Shaft with coupling       |
| 4A      | Upper shaft with coupling |
| 5       | Intermediate support      |
| 6       | Wear box                  |
| 7       | Impeller                  |
| 8       | Diffuser                  |
| 9       | Upper support             |
| 10      | Bush bearing              |
| 11      | Shaft sleeve              |
| 12      | Upper spacer              |
| 13      | Adapter ring              |
| 14      | Valve cap                 |
| 16      | Valve support with gasket |
| 17      | Valve lock ring           |
| 18      | Filter                    |
| 19      | Cable guard               |
| 20      | Impeller shim             |
| 21      | Upper split ring          |
| 22      | Intermediate split ring   |
| 23      | Thrust washer             |
| 24      | Washer                    |

6gs-8gs-2p50-en\_a\_tp



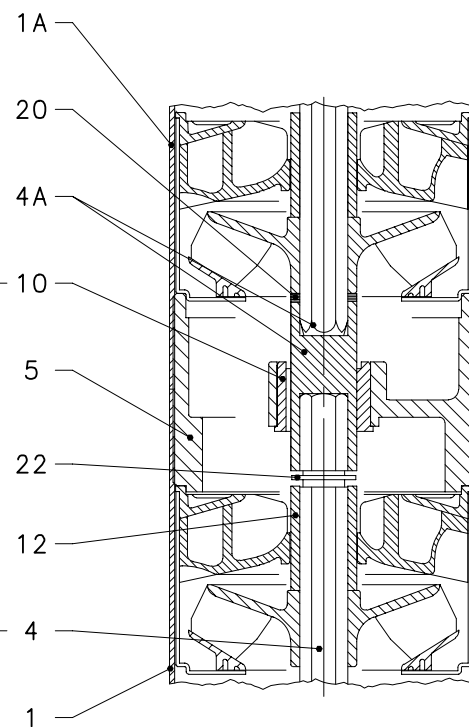
01732\_B\_DS

## 12GS SERIES PUMP SECTION AND LIST OF MAIN COMPONENTS



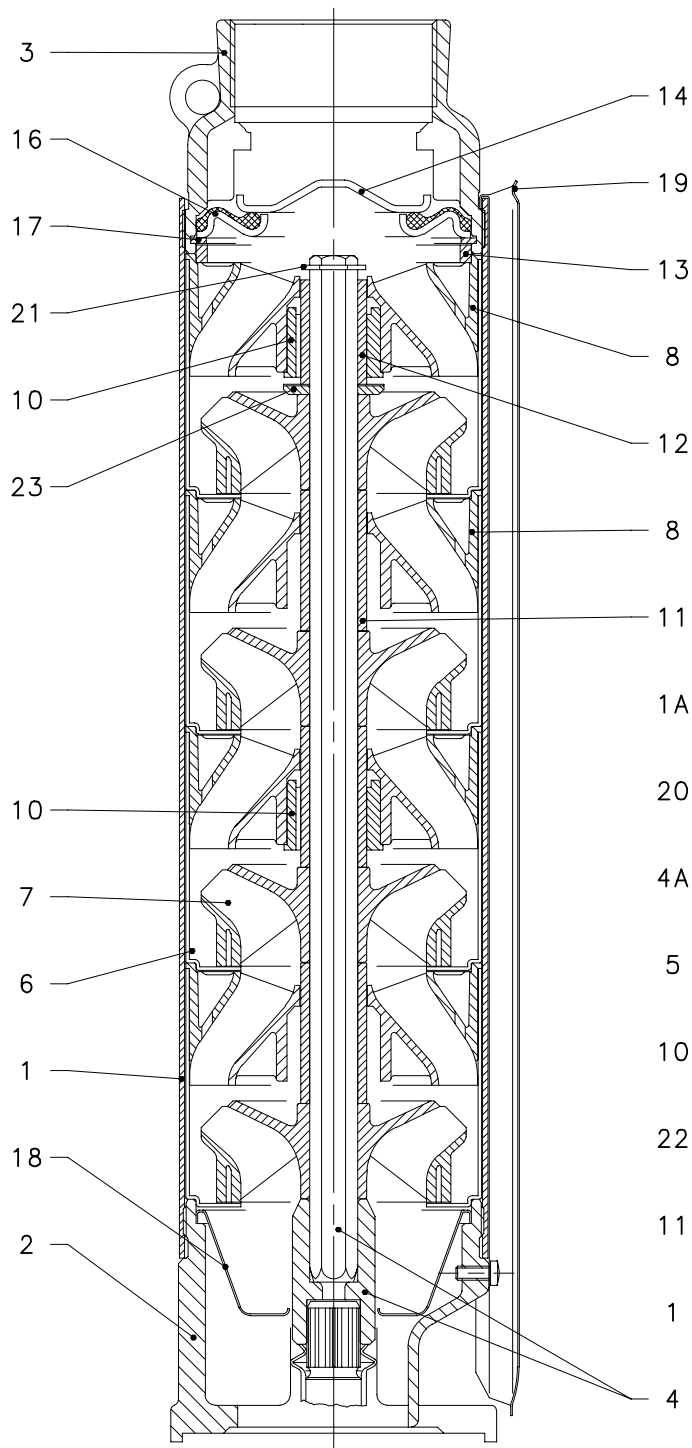
| REF. N. | DESCRIPTION               |
|---------|---------------------------|
| 1       | Sleeve                    |
| 1A      | Upper sleeve              |
| 2       | Lower support             |
| 3       | Delivery port             |
| 4       | Shaft with coupling       |
| 4A      | Upper shaft with coupling |
| 5       | Intermediate support      |
| 6       | Wear box                  |
| 7       | Impeller                  |
| 8       | Diffuser                  |
| 9       | Upper support             |
| 10      | Bush bearing              |
| 11      | Shaft sleeve              |
| 12      | Spacer                    |
| 13      | Adapter ring              |
| 14      | Valve cap                 |
| 16      | Valve support with gasket |
| 17      | Valve lock ring           |
| 18      | Filter                    |
| 19      | Cable guard               |
| 20      | Impeller shim             |
| 21      | Upper split ring          |
| 22      | Intermediate split ring   |
| 25      | Thrust washer             |

12gs-2p50-en\_a\_tp



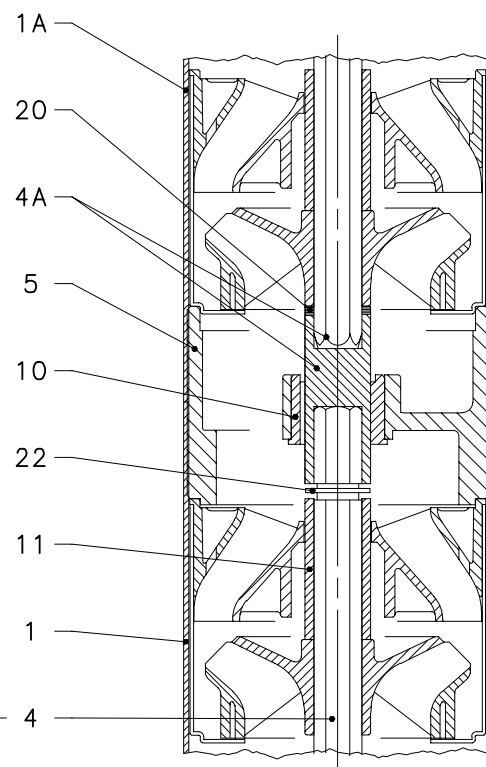
01732A\_B\_DS

## 16GS SERIES PUMP SECTION AND LIST OF MAIN COMPONENTS



| REF. N. | DESCRIPTION               |
|---------|---------------------------|
| 1       | Sleeve                    |
| 1A      | Upper sleeve              |
| 2       | Lower support             |
| 3       | Delivery port             |
| 4       | Shaft with coupling       |
| 4A      | Upper shaft with coupling |
| 5       | Intermediate support      |
| 6       | Wear box                  |
| 7       | Impeller                  |
| 8       | Diffuser                  |
| 10      | Bush bearing              |
| 11      | Shaft sleeve              |
| 12      | Spacer                    |
| 13      | Adapter ring              |
| 14      | Valve cap                 |
| 16      | Valve support with gasket |
| 17      | Valve lock ring           |
| 18      | Filter                    |
| 19      | Cable guard               |
| 20      | Impeller shim             |
| 21      | Upper split ring          |
| 22      | Intermediate split ring   |
| 25      | Thrust washer             |

16gs-2p50-en\_a\_tp



01732B\_B\_DS



## 4" Submersible motors

Submersible liquid-cooled motors. The choice of component materials ensures optimum operating performances, superior quality, reliability and ease of installation.

## 4OS Series



### SPECIFICATIONS

- **Stainless steel** outer sleeve.
- Shaft extension and coupling dimensions to **NEMA** standards.
- **Rewindable stator.**
- Class **F insulation.**
- Protection class: **IP68.**
- **Internal fluid** according to standards for oils in contact with foodstuffs (F.D.A. - FOOD AND DRUG ADMINISTRATION).
- Compensating bellows for internal liquid expansion.
- Axial load supported by angular bearings.
- **Mechanical seal** protected by sand guard.
- Maximum **immersion depth:** 150 m.
- Maximum **number of starts per hour** at regular intervals: 30 for direct start; 20 for impedance start.
- Maximum supply **voltage variations** allowed : 230V  $\pm 10\%$ , 400V  $\pm 10\%$ .
- Maximum water **temperature** : 35°C.  
Max. temperature applies to motors working in a installation capable of delivering a flow of water around the motor jacket of at least 0,08 m/s.
- Water **pH:** 4÷8.
- **Axial thrust:** 3000 N from 0,37 to 2,2 kW; 6500 N from 3 to 7,5 kW.
- **Extractable supply cable** fitted with watertight connector.
- **Versions:**
  - Single-phase: 0,37 to 4 kW 220-240 V, 50 Hz
  - Three-phase: 0,37 to 7,5 kW 220-240 V, 50 Hz; 0,37 to 7,5 kW 380-415 V, 50 Hz.
- Horizontal operation up to 2,2 kW.
- Inverter applications.

### OPTIONAL FEATURES

- Special voltages.

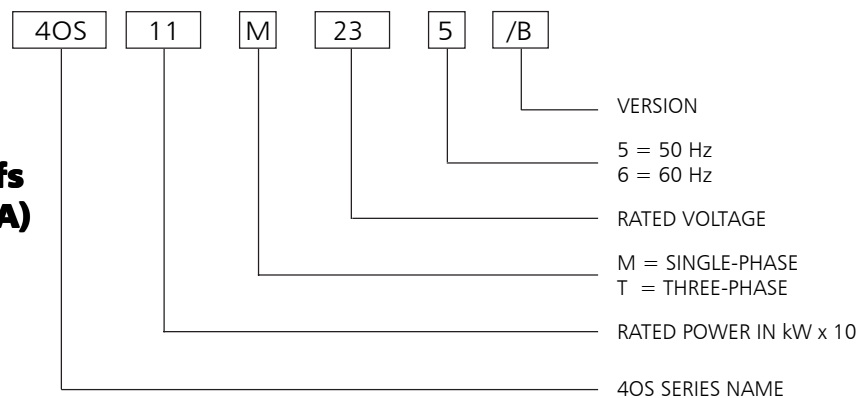
### IDENTIFICATION CODE

☐ **Rewindable stator**

☐ **Liquid suitable for use with foodstuffs (complies with FDA)**

☐ **High starting torque**

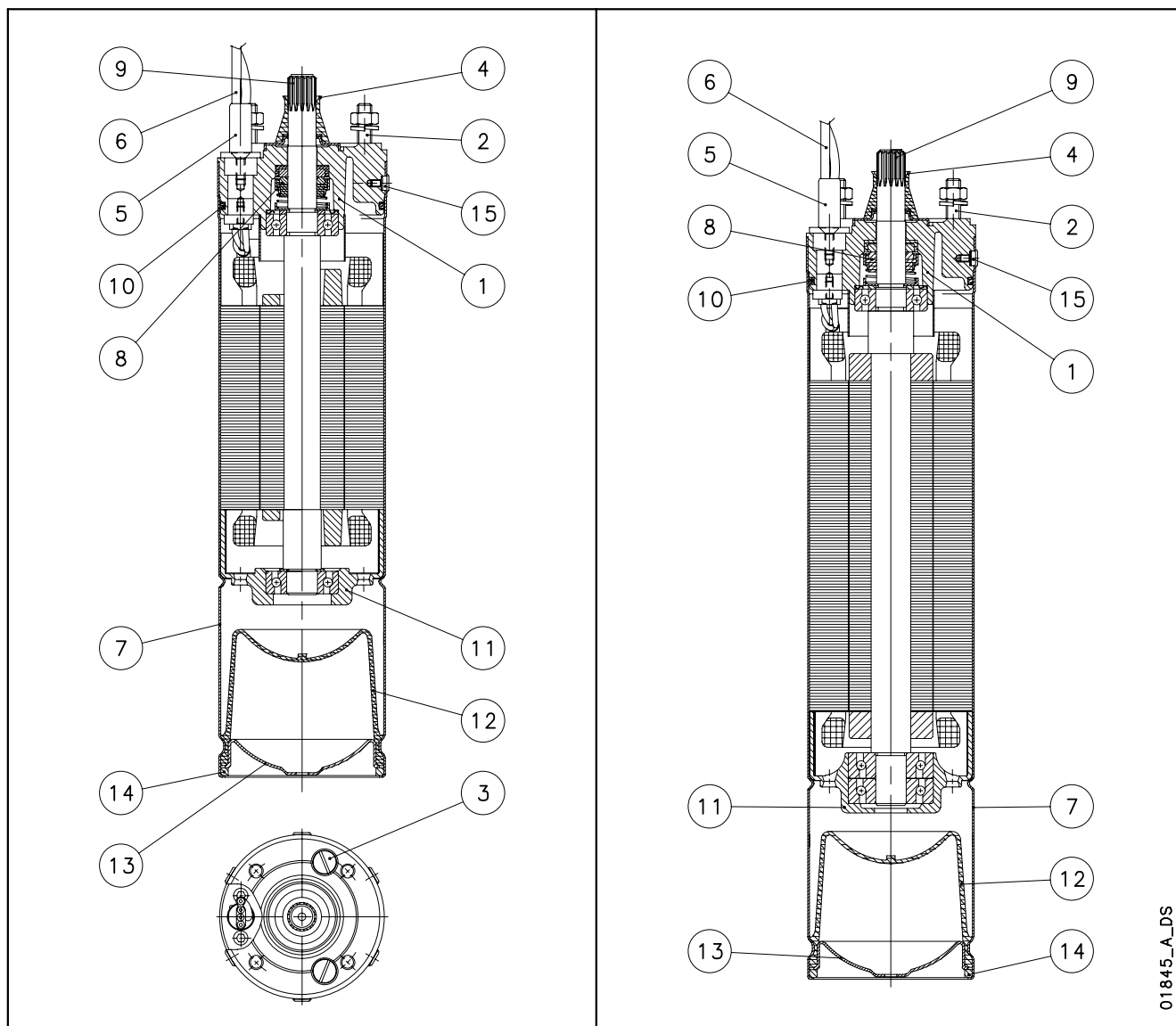
☐ **Power supply cable with extractable connector**



EXAMPLE : 4OS11M235/B

4OS MOTOR :  
RATED POWER 1,1 kW; SINGLE-PHASE;  
RATED VOLTAGE 230 V; 50 Hz; /B VERSION.

## 4OS SERIES MOTORS MOTOR CROSS SECTION AND TABLE OF MATERIALS



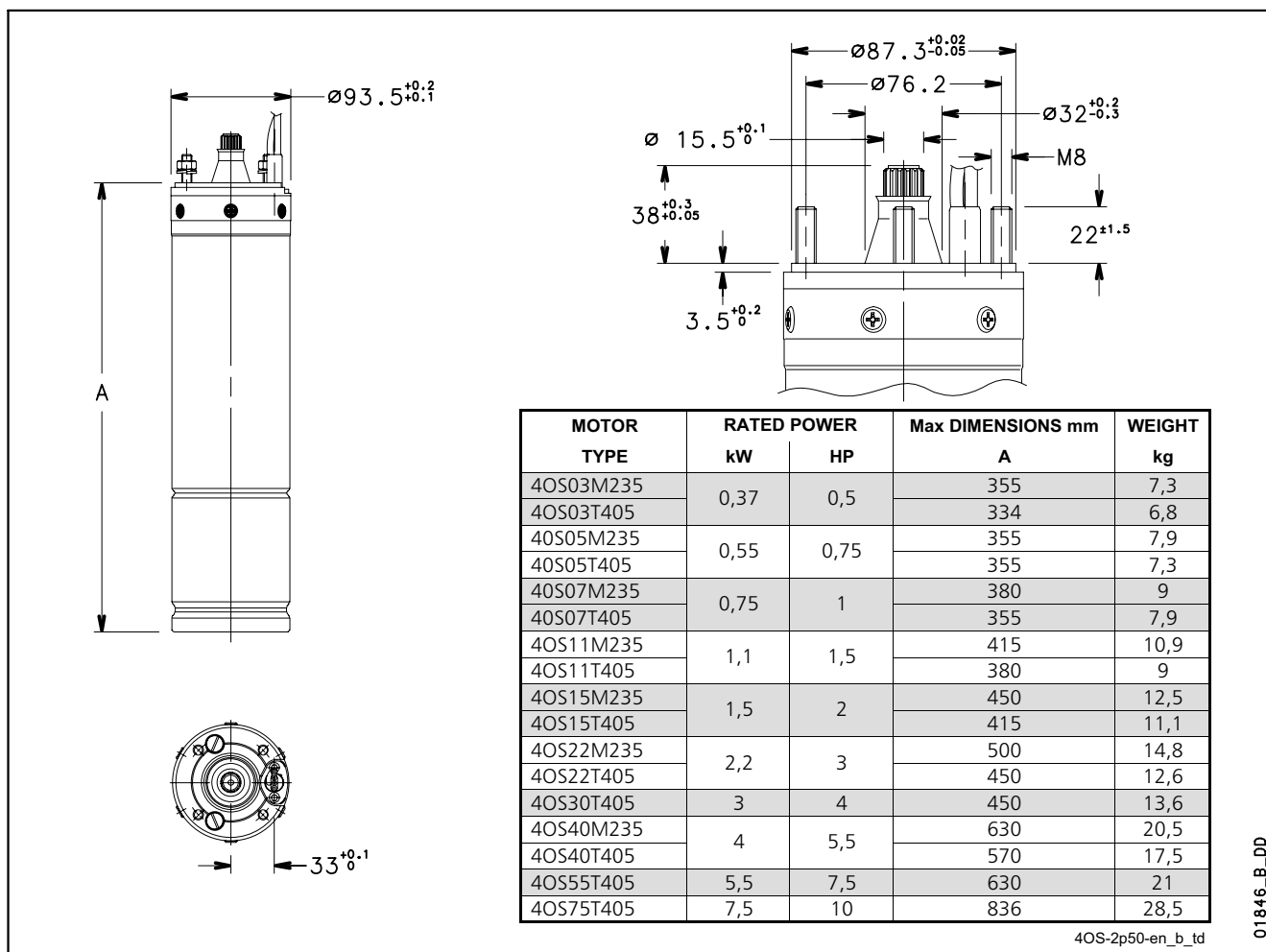
01845\_A\_DS

| REF.<br>N. | PART                                 | MATERIAL                      | DESIGNATION                         |               |
|------------|--------------------------------------|-------------------------------|-------------------------------------|---------------|
|            |                                      |                               | EUROPE                              | USA           |
| 1          | Head                                 | Brass                         | EN12165-CuZn40Pb2 (CW617N)          |               |
| 2          | Studs                                | Stainless steel               | EN 10088-3-X5CrNi18-10 (1.4301)     | AISI 304      |
| 3          | Filling screws                       | Brass                         | EN12165-CuZn40Pb2 (CW617N)          |               |
| 4          | Sand guard                           | NBR                           |                                     |               |
| 5          | Connector sleeve                     | Stainless steel               | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304      |
| 6          | Cable                                | Epdm                          |                                     |               |
| 7          | Outer sleeve                         | Stainless steel               | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304      |
| 8          | Mechanical seal                      | Graphite /<br>Aluminium oxide |                                     |               |
| 9          | Shaft end for $P \leq 2.2$ kW        | Stainless steel               | EN 10088-3-X8CrNiS18-9 (1.4305)     | AISI 303      |
|            | Shaft end for $3 \leq P \leq 7.5$ kW | Stainless steel               | EN 10088-1-X2CrNiMoN22-5-3 (1.4462) | UNS S 31803   |
| 10         | Elastomers                           | NBR                           |                                     |               |
| 11         | Lower bracket                        | Cast iron                     | EN1561-GJL-200 (JL1030)             | ASTM Class 25 |
| 12         | Compensating diaphragm               | NBR                           |                                     |               |
| 13         | Lower protection                     | Stainless steel               | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304      |
| 14         | Snap ring                            | Stainless steel               | EN 10088-1-X5CrNi18-10 (1.4301)     | AISI 304      |
| 15         | Screws, nuts, washers                | Stainless steel               | EN 10088-3-X5CrNi18-10 (1.4301)     | AISI 304      |
|            | Cooling liquid                       | Olio atossico                 |                                     |               |

4OS-2p50-en\_a\_tm



## 4OS SERIES MOTORS DIMENSIONS AND WEIGHTS AT 50 Hz



4OS-2p50-en\_b\_td

01846\_B\_DD

## SINGLE-PHASE OPERATING CHARACTERISTICS AT 50 Hz

| MOTOR<br>TYPE | RATED<br>POWER |      | RATED<br>VOLTAGE | CAPACITOR | OPERATING CHARACTERISTICS<br>AT RATED POWER |         |                  |      | DIRECT<br>START |      | MAX<br>WATER<br>TEMPERATURE | CABLE TYPE |       |    |          |   |
|---------------|----------------|------|------------------|-----------|---------------------------------------------|---------|------------------|------|-----------------|------|-----------------------------|------------|-------|----|----------|---|
|               | kW             | HP   |                  |           | V                                           | μF/450V | RATED<br>CURRENT |      |                 |      |                             | Ts/Tn*     | Is/In | °C | Nc x sec | L |
|               |                |      |                  |           |                                             |         | A                | rpm  | η %             | cosφ |                             |            |       |    |          |   |
| SINGLE-PHASE  |                |      |                  |           |                                             |         |                  |      |                 |      |                             |            |       |    |          |   |
| 4OS03M235     | 0,37           | 0,5  | 220              | 16        | 3,0                                         | 2835    | 56,8             | 0,98 | 0,56            | 3,08 | 35                          | 4x1.5      | 1,75  |    |          |   |
|               |                |      | 230              |           | 3,1                                         | 2845    | 54,7             | 0,96 | 0,62            | 3,17 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 3,2                                         | 2860    | 52,5             | 0,93 | 0,68            | 3,2  |                             |            |       |    |          |   |
| 4OS05M235     | 0,55           | 0,75 | 220              | 20        | 4,1                                         | 2815    | 62,4             | 0,98 | 0,60            | 2,93 | 35                          | 4x1.5      | 1,75  |    |          |   |
|               |                |      | 230              |           | 4,1                                         | 2830    | 60,4             | 0,96 | 0,66            | 3,02 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 4,3                                         | 2845    | 58,4             | 0,92 | 0,72            | 3,06 |                             |            |       |    |          |   |
| 4OS07M235     | 0,75           | 1    | 220              | 30        | 5,4                                         | 2825    | 63,3             | 0,99 | 0,57            | 3,07 | 35                          | 4x1.5      | 1,75  |    |          |   |
|               |                |      | 230              |           | 5,5                                         | 2840    | 61,6             | 0,97 | 0,63            | 3,2  |                             |            |       |    |          |   |
|               |                |      | 240              |           | 5,6                                         | 2855    | 59,9             | 0,94 | 0,69            | 3,27 |                             |            |       |    |          |   |
| 4OS11M235     | 1,1            | 1,5  | 220              | 40        | 7,5                                         | 2820    | 67,6             | 0,99 | 0,62            | 2,97 | 35                          | 4x1.5      | 1,75  |    |          |   |
|               |                |      | 230              |           | 7,4                                         | 2840    | 66,3             | 0,98 | 0,68            | 3,14 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 7,6                                         | 2850    | 63,9             | 0,95 | 0,74            | 3,2  |                             |            |       |    |          |   |
| 4OS15M235     | 1,5            | 2    | 220              | 50        | 10,0                                        | 2830    | 69,3             | 0,98 | 0,48            | 3,1  | 35                          | 4x1.5      | 1,75  |    |          |   |
|               |                |      | 230              |           | 10,1                                        | 2845    | 67,6             | 0,96 | 0,53            | 3,22 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 10,5                                        | 2855    | 64,9             | 0,92 | 0,58            | 3,22 |                             |            |       |    |          |   |
| 4OS22M235     | 2,2            | 3    | 220              | 70        | 14,3                                        | 2805    | 71,1             | 0,99 | 0,46            | 2,71 | 35                          | 4x1.5      | 2,5   |    |          |   |
|               |                |      | 230              |           | 14,1                                        | 2820    | 69,6             | 0,97 | 0,50            | 2,86 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 14,4                                        | 2840    | 67,7             | 0,94 | 0,55            | 2,93 |                             |            |       |    |          |   |
| 4OS40M235     | 4              | 5,5  | 220              | 90        | 25,7                                        | 2850    | 73,8             | 0,96 | 0,42            | 3,48 | 35                          | 4 x 2      | 2,5   |    |          |   |
|               |                |      | 230              |           | 24,9                                        | 2870    | 74,0             | 0,94 | 0,46            | 3,76 |                             |            |       |    |          |   |
|               |                |      | 240              |           | 24,8                                        | 2880    | 73,4             | 0,92 | 0,50            | 3,94 |                             |            |       |    |          |   |

\* Ts/Tn = ratio between starting torque and nominal torque.

4OS-M-2p50-en\_c\_te

## 40S SERIES MOTORS

### THREE-PHASE OPERATING CHARACTERISTICS AT 50 Hz

| MOTOR TYPE  | RATED POWER |      | RATED VOLTAGE | OPERATING CHARACTERISTICS AT RATED POWER |      |          |            | DIRECT START |       | MAX WATER TEMPERATURE | CABLE TYPE      |      |
|-------------|-------------|------|---------------|------------------------------------------|------|----------|------------|--------------|-------|-----------------------|-----------------|------|
|             | kW          | HP   |               | RATED CURRENT                            |      |          |            |              |       |                       | Nc x sec        | L    |
| THREE-PHASE |             |      | V             | A                                        | rpm  | $\eta$ % | $\cos\phi$ | Ts/Tn*       | Is/In | °C                    | mm <sup>2</sup> | m    |
| 4OS03T235   | 0,37        | 0,5  | 220           | 2,0                                      | 2835 | 62       | 0,78       | 3,4          | 5,1   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 230           | 2,1                                      | 2855 | 62       | 0,72       | 3,8          | 5,3   |                       |                 |      |
|             |             |      | 240           | 2,2                                      | 2865 | 61       | 0,68       | 4,1          | 5,3   |                       |                 |      |
| 4OS05T235   | 0,55        | 0,75 | 220           | 2,8                                      | 2795 | 65       | 0,8        | 2,8          | 4,6   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 230           | 2,9                                      | 2820 | 64       | 0,75       | 3,1          | 4,7   |                       |                 |      |
|             |             |      | 240           | 3,0                                      | 2835 | 63       | 0,71       | 3,4          | 4,7   |                       |                 |      |
| 4OS07T235   | 0,75        | 1    | 220           | 3,8                                      | 2790 | 68       | 0,78       | 3,3          | 4,6   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 230           | 4,0                                      | 2815 | 67       | 0,71       | 3,6          | 4,7   |                       |                 |      |
|             |             |      | 240           | 4,2                                      | 2825 | 65       | 0,67       | 3,9          | 4,6   |                       |                 |      |
| 4OS11T235   | 1,1         | 1,5  | 220           | 5,1                                      | 2780 | 72       | 0,8        | 2,7          | 4,2   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 230           | 5,2                                      | 2810 | 71       | 0,74       | 3,0          | 4,4   |                       |                 |      |
|             |             |      | 240           | 5,4                                      | 2820 | 70       | 0,7        | 3,2          | 4,3   |                       |                 |      |
| 4OS15T235   | 1,5         | 2    | 220           | 7,0                                      | 2790 | 73       | 0,78       | 3,0          | 4,7   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 230           | 7,2                                      | 2815 | 72       | 0,72       | 3,4          | 4,8   |                       |                 |      |
|             |             |      | 240           | 7,6                                      | 2825 | 70       | 0,68       | 3,7          | 4,7   |                       |                 |      |
| 4OS22T235   | 2,2         | 3    | 220           | 9,7                                      | 2785 | 74       | 0,80       | 2,3          | 4,7   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 230           | 10,0                                     | 2810 | 74       | 0,74       | 2,6          | 4,8   |                       |                 |      |
|             |             |      | 240           | 10,5                                     | 2825 | 73       | 0,69       | 2,7          | 4,7   |                       |                 |      |
| 4OS30T235   | 3           | 4    | 220           | 12,1                                     | 2810 | 77       | 0,85       | 1,8          | 4,2   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 230           | 12,0                                     | 2830 | 77       | 0,81       | 2,0          | 4,5   |                       |                 |      |
|             |             |      | 240           | 12,3                                     | 2845 | 77       | 0,77       | 2,2          | 4,6   |                       |                 |      |
| 4OS40T235   | 4           | 5,5  | 220           | 16,4                                     | 2810 | 75       | 0,85       | 2,2          | 4,8   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 230           | 16,5                                     | 2840 | 76       | 0,80       | 2,4          | 5,0   |                       |                 |      |
|             |             |      | 240           | 17,0                                     | 2850 | 75       | 0,76       | 2,6          | 5,0   |                       |                 |      |
| 4OS55T235   | 5,5         | 7,5  | 220           | 22,9                                     | 2795 | 76       | 0,83       | 1,8          | 4,6   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 230           | 23,0                                     | 2820 | 77       | 0,78       | 2,0          | 4,8   |                       |                 |      |
|             |             |      | 240           | 23,7                                     | 2840 | 77       | 0,73       | 2,2          | 4,9   |                       |                 |      |
| 4OS75T235   | 7,5         | 10   | 220           | 31,0                                     | 2820 | 78       | 0,82       | 1,9          | 4,9   | 35                    | 4x1,5           | 4    |
|             |             |      | 230           | 31,4                                     | 2850 | 79       | 0,76       | 2,1          | 5,1   |                       |                 |      |
|             |             |      | 240           | 32,4                                     | 2860 | 78       | 0,71       | 2,3          | 5,1   |                       |                 |      |
| 4OS03T405   | 0,37        | 0,5  | 380           | 1,2                                      | 2835 | 62       | 0,78       | 3,4          | 5,1   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 400           | 1,2                                      | 2855 | 62       | 0,72       | 3,8          | 5,3   |                       |                 |      |
|             |             |      | 415           | 1,2                                      | 2865 | 61       | 0,68       | 4,1          | 5,3   |                       |                 |      |
| 4OS05T405   | 0,55        | 0,75 | 380           | 1,6                                      | 2795 | 65       | 0,8        | 2,8          | 4,6   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 400           | 1,7                                      | 2820 | 64       | 0,75       | 3,1          | 4,7   |                       |                 |      |
|             |             |      | 415           | 1,7                                      | 2835 | 63       | 0,71       | 3,4          | 4,7   |                       |                 |      |
| 4OS07T405   | 0,75        | 1    | 380           | 2,2                                      | 2790 | 68       | 0,78       | 3,3          | 4,6   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 400           | 2,3                                      | 2815 | 67       | 0,71       | 3,6          | 4,7   |                       |                 |      |
|             |             |      | 415           | 2,4                                      | 2825 | 65       | 0,67       | 3,9          | 4,6   |                       |                 |      |
| 4OS11T405   | 1,1         | 1,5  | 380           | 2,9                                      | 2780 | 72       | 0,8        | 2,7          | 4,2   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 400           | 3,0                                      | 2810 | 71       | 0,74       | 3,0          | 4,4   |                       |                 |      |
|             |             |      | 415           | 3,1                                      | 2820 | 70       | 0,7        | 3,2          | 4,3   |                       |                 |      |
| 4OS15T405   | 1,5         | 2    | 380           | 4,0                                      | 2790 | 73       | 0,78       | 3,0          | 4,7   | 35                    | 4x1,5           | 1,75 |
|             |             |      | 400           | 4,2                                      | 2815 | 72       | 0,72       | 3,4          | 4,8   |                       |                 |      |
|             |             |      | 415           | 4,4                                      | 2825 | 70       | 0,68       | 3,7          | 4,7   |                       |                 |      |
| 4OS22T405   | 2,2         | 3    | 380           | 5,6                                      | 2785 | 74       | 0,80       | 2,3          | 4,7   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 400           | 5,8                                      | 2810 | 74       | 0,74       | 2,6          | 4,8   |                       |                 |      |
|             |             |      | 415           | 6,1                                      | 2825 | 73       | 0,69       | 2,7          | 4,7   |                       |                 |      |
| 4OS30T405   | 3           | 4    | 380           | 7,0                                      | 2810 | 77       | 0,85       | 1,8          | 4,2   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 400           | 7,0                                      | 2830 | 77       | 0,81       | 2,0          | 4,5   |                       |                 |      |
|             |             |      | 415           | 7,1                                      | 2845 | 77       | 0,77       | 2,2          | 4,6   |                       |                 |      |
| 4OS40T405   | 4           | 5,5  | 380           | 9,5                                      | 2810 | 75       | 0,85       | 2,2          | 4,8   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 400           | 9,5                                      | 2840 | 76       | 0,80       | 2,4          | 5,0   |                       |                 |      |
|             |             |      | 415           | 9,8                                      | 2850 | 75       | 0,76       | 2,6          | 5,0   |                       |                 |      |
| 4OS55T405   | 5,5         | 7,5  | 380           | 13,2                                     | 2795 | 76       | 0,83       | 1,8          | 4,6   | 35                    | 4x1,5           | 2,5  |
|             |             |      | 400           | 13,3                                     | 2820 | 77       | 0,78       | 2,0          | 4,8   |                       |                 |      |
|             |             |      | 415           | 13,7                                     | 2840 | 77       | 0,73       | 2,2          | 4,9   |                       |                 |      |
| 4OS75T405   | 7,5         | 10   | 380           | 17,9                                     | 2820 | 78       | 0,82       | 1,9          | 4,9   | 35                    | 4x1,5           | 4    |
|             |             |      | 400           | 18,1                                     | 2850 | 79       | 0,76       | 2,1          | 5,1   |                       |                 |      |
|             |             |      | 415           | 18,7                                     | 2860 | 78       | 0,71       | 2,3          | 5,1   |                       |                 |      |

\* Ts/Tn = ratio between starting torque and nominal torque.

40S-T-2p50-en\_b\_te

## 4" Submersible motors

Submersible canned motors.  
The choice of component materials ensures optimum operating performances, superior quality, reliability and ease of installation.

## L4C Series



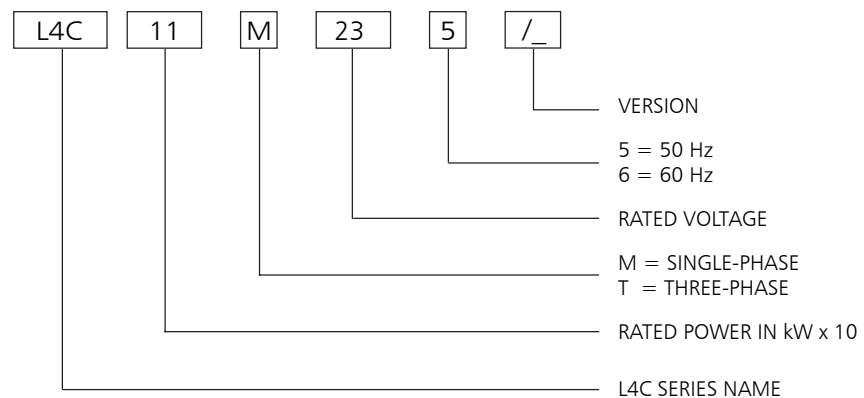
### SPECIFICATIONS

- **Stainless steel** outer sleeve.
- Shaft extension and coupling dimensions to **NEMA** standards.
- Class **F insulation**.
- Protection class: **IP68**.
- Compensating bellows for internal liquid expansion.
- Axial load supported by Kingsbury type thrust bearing.
- **Lip seal** protected by sand guard.
- Maximum **immersion depth**: 300 m.
- Maximum **number of starts per hour** at regular intervals:  
40 for direct start;  
20 for impedance start.
- Maximum supply **voltage variations** allowed :  $\pm 6\%$ .
- Maximum water **temperature**: 35°C.  
Max. temperature applies to motors working in a installation capable of delivering a flow of water around the motor jacket of at least 0,3 m/s.
- **Axial thrust**:  
2000 N from 0,37 to 1,1 kW;  
3000 N from 1,5 to 2,2 kW;  
6000 N from 3 to 7,5 kW.
- **Extractable supply cable** fitted with watertight connector.
- **Versions**:  
- Single-phase:  
0,37 to 4 kW 220-240 V, 50 Hz  
(0,37 to 1,1 kW with built in automatic reset overload protection).  
- Three-phase:  
0,37 to 5,5 kW 220-240 V, 50 Hz  
0,37 to 7,5 kW 380-415 V, 50 Hz.
- Can also operate in horizontal position, provided that the associated pump can apply an axial thrust of at least 100 N on the entire operating field.

### OPTIONAL FEATURES

- Special voltages.
- Inverter applications.

### IDENTIFICATION CODE



EXAMPLE : L4C11M235

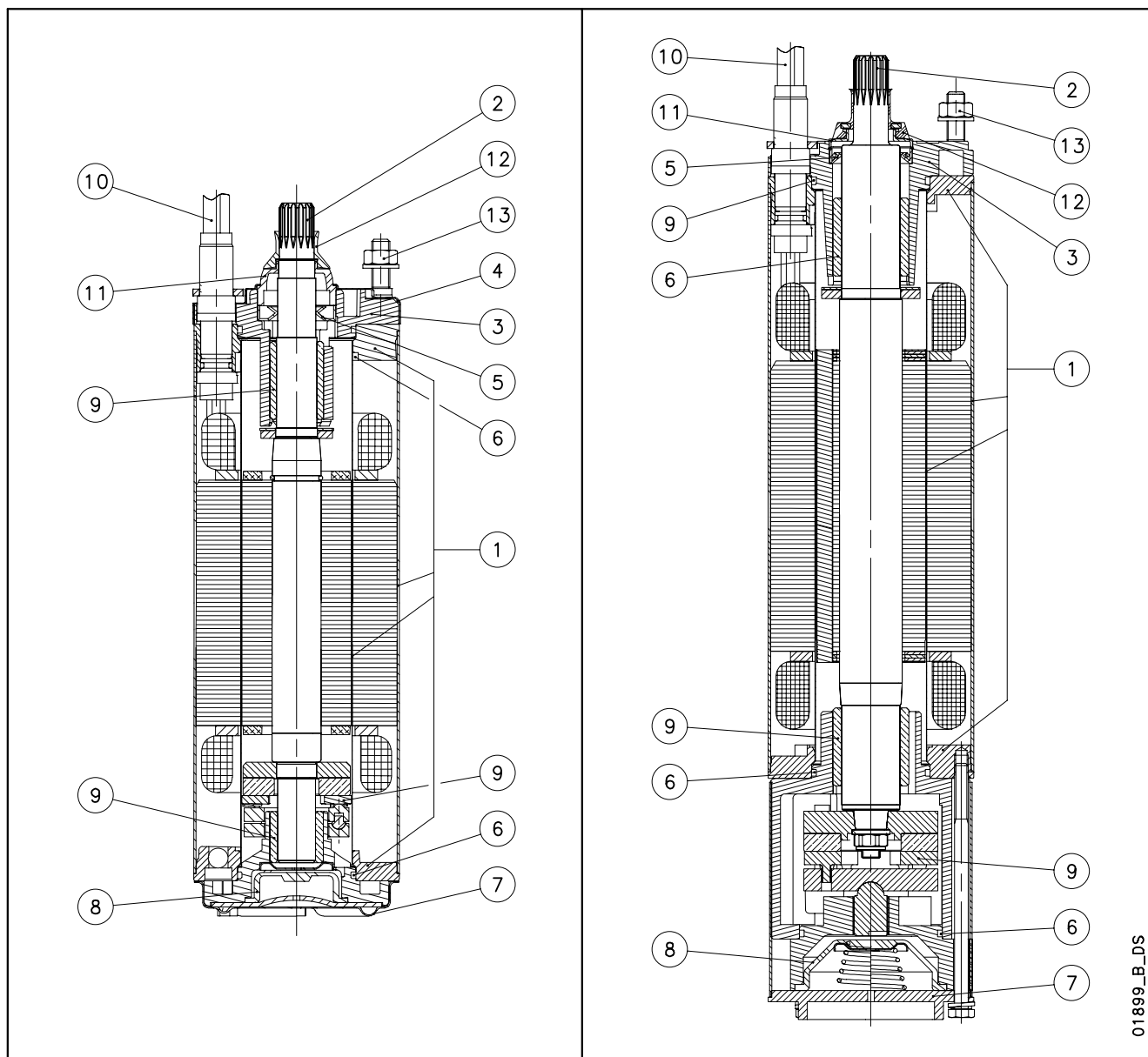
L4C MOTOR :  
RATED POWER 1,1 kW; SINGLE-PHASE;  
RATED VOLTAGE 230 V; 50 Hz

☐ **High starting torque**

☐ **Power supply cable with extractable connector**

## L4C SERIES MOTORS

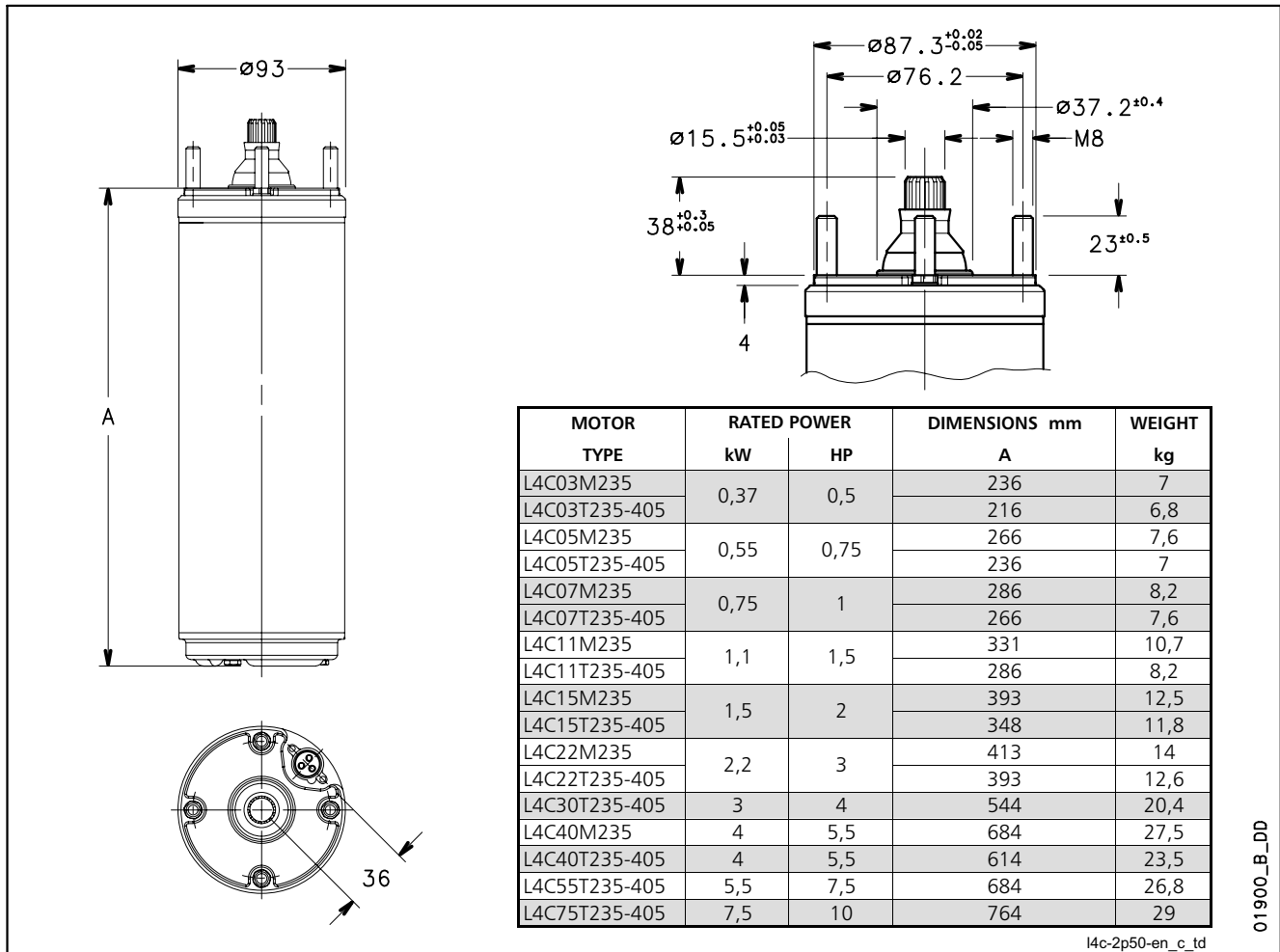
### MOTOR CROSS SECTION AND TABLE OF MATERIALS



| REF<br>N° | PART                           | MATERIAL                         | DESIGNATION                     |            |
|-----------|--------------------------------|----------------------------------|---------------------------------|------------|
|           |                                |                                  | EUROPE                          | USA        |
| 1         | Inner and outer sleeve         | Stainless steel                  | EN 10088-1-X2CrNi18-9 (1.4307)  | AISI304L   |
|           | Flange                         | Carbon steel                     | EN 10025 - S355JR (Fe 510-B)    | ASTM A105  |
| 2         | Shaft extension (up to 2.2 kW) | Stainless steel                  | EN 10088-1-X5CrNi18-10 (1.4301) | AISI304    |
|           | Shaft extension (from 3 kW)    | Stainless steel                  | EN 10088-1-X2CrNiN23-4 (1.4362) | ASTM 32304 |
| 3         | Upper bracket                  | Cast iron                        | EN-GJL-200                      | Class 25 B |
| 4         | Upper cover                    | Stainless steel                  | EN 10088-1-X5CrNi18-10 (1.4301) | AISI304    |
| 5         | Lip seal                       | NBR                              |                                 |            |
| 6         | Elastomers                     | NBR                              |                                 |            |
| 7         | Lower cover                    | Stainless steel                  | EN 10088-1-X5CrNi18-10 (1.4301) | AISI304    |
| 8         | Compensating bellows           | EPDM                             |                                 |            |
| 9         | Bearings                       | Carbon-graphite                  |                                 |            |
| 10        | Cable                          | EPDM                             |                                 |            |
| 11        | Fixed sand guard               | Nylon                            |                                 |            |
| 12        | Removable sand guard           | NBR                              |                                 |            |
| 13        | Bolts and screws               | Stainless steel                  | EN 10088-1-X5CrNi18-10 (1.4301) | AISI304    |
|           | Cooling liquid                 | Demineralized water + antifreeze |                                 |            |

I4c-2p50-en\_d\_tm

## L4C SERIES MOTORS DIMENSIONS AND WEIGHTS AT 50 Hz



l4c-2p50-en\_c\_td

01900\_B\_DD

## SINGLE-PHASE OPERATING CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | RATED POWER |      | RATED VOLTAGE | CAPACITOR | OPERATING CHARACTERISTICS AT RATED POWER |      |     |      | DIRECT START |        | MAX WATER TEMPERATURE | CABLE TYPE   |       |
|------------|-------------|------|---------------|-----------|------------------------------------------|------|-----|------|--------------|--------|-----------------------|--------------|-------|
|            | kW          | HP   |               |           | RATED CURRENT                            | A    | rpm | η %  | cosφ         | Ts/Tn* | Is/In                 | Ncxsec.(mm²) | L (m) |
| L4C03M235  | 0,37        | 0,5  | 220           | 16        | 3,2                                      | 2810 | 53  | 0,96 | 0,63         | 2,68   | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 3,3                                      | 2820 | 54  | 0,97 | 0,69         | 2,72   |                       |              |       |
|            |             |      | 240           |           | 3,4                                      | 2830 | 50  | 0,91 | 0,75         | 2,76   |                       |              |       |
| L4C05M235  | 0,55        | 0,75 | 220           | 20        | 4,3                                      | 2810 | 61  | 0,95 | 0,62         | 3,3    | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 4,6                                      | 2820 | 56  | 0,94 | 0,68         | 3,2    |                       |              |       |
|            |             |      | 240           |           | 4,8                                      | 2830 | 54  | 0,90 | 0,74         | 3,26   |                       |              |       |
| L4C07M235  | 0,75        | 1    | 220           | 30        | 6                                        | 2810 | 60  | 0,93 | 0,63         | 3,18   | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 6,2                                      | 2820 | 58  | 0,92 | 0,66         | 3,2    |                       |              |       |
|            |             |      | 240           |           | 6,5                                      | 2830 | 56  | 0,85 | 0,75         | 3,2    |                       |              |       |
| L4C11M235  | 1,1         | 1,5  | 220           | 40        | 8,1                                      | 2800 | 67  | 0,94 | 0,60         | 3,48   | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 8,1                                      | 2835 | 65  | 0,92 | 0,60         | 3,54   |                       |              |       |
|            |             |      | 240           |           | 8,3                                      | 2850 | 63  | 0,87 | 0,62         | 3,62   |                       |              |       |
| L4C15M235  | 1,5         | 2    | 220           | 50        | 10,4                                     | 2800 | 67  | 0,96 | 0,74         | 3,3    | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 10,4                                     | 2820 | 66  | 0,93 | 0,74         | 3,38   |                       |              |       |
|            |             |      | 240           |           | 10,7                                     | 2835 | 64  | 0,90 | 0,76         | 3,46   |                       |              |       |
| L4C22M235  | 2,2         | 3    | 220           | 70        | 15,4                                     | 2740 | 68  | 0,96 | 0,54         | 3,1    | 35                    | 4x1,5        | 1,7   |
|            |             |      | 230           |           | 15                                       | 2770 | 68  | 0,94 | 0,54         | 3,2    |                       |              |       |
|            |             |      | 240           |           | 15,3                                     | 2790 | 66  | 0,91 | 0,54         | 3,3    |                       |              |       |
| L4C40M235  | 4           | 5,5  | 220           | 90        | 24,5                                     | 2840 | 70  | 0,94 | 0,46         | 3,5    | 35                    | 4x2          | 2,7   |
|            |             |      | 230           |           | 25                                       | 2850 | 68  | 0,95 | 0,51         | 3,6    |                       |              |       |
|            |             |      | 240           |           | 27,4                                     | 2860 | 65  | 0,84 | 0,60         | 3,4    |                       |              |       |

\* Ts/Tn = ratio between starting torque and nominal torque.

l4cm-2p50-en\_e\_te

## L4C SERIES MOTORS

### THREE-PHASE OPERATING CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | RATED POWER |      | RATED VOLTAGE | OPERATING CHARACTERISTICS AT RATED POWER |      |     |      | DIRECT START |       | MAX WATER TEMPERATURE °C | CABLE TYPE   |     |
|------------|-------------|------|---------------|------------------------------------------|------|-----|------|--------------|-------|--------------------------|--------------|-----|
|            | kW          | HP   |               | A                                        | rpm  | η % | cosφ | Ts/Tn*       | Is/In |                          | Nc x sec mm² | L m |
| L4C03T235  | 0,37        | 0,5  | 220           | 2,6                                      | 2810 | 51  | 0,69 | 2,7          | 3,7   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 2,7                                      | 2820 | 53  | 0,7  | 3            | 3,7   |                          |              |     |
|            |             |      | 240           | 3,1                                      | 2830 | 48  | 0,67 | 3,2          | 3,4   |                          |              |     |
| L4C05T235  | 0,55        | 0,75 | 220           | 3,1                                      | 2820 | 61  | 0,77 | 2,8          | 4,3   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 3,3                                      | 2830 | 60  | 0,71 | 3,1          | 4,2   |                          |              |     |
|            |             |      | 240           | 3,5                                      | 2840 | 60  | 0,66 | 3,3          | 4,2   |                          |              |     |
| L4C07T235  | 0,75        | 1    | 220           | 4                                        | 2820 | 65  | 0,77 | 2,9          | 5     | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 4,1                                      | 2830 | 63  | 0,73 | 3,2          | 5,1   |                          |              |     |
|            |             |      | 240           | 4,5                                      | 2840 | 63  | 0,66 | 3,5          | 4,8   |                          |              |     |
| L4C11T235  | 1,1         | 1,5  | 220           | 5,6                                      | 2820 | 62  | 0,8  | 3            | 4     | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 5,7                                      | 2830 | 64  | 0,76 | 3,3          | 4,2   |                          |              |     |
|            |             |      | 240           | 6,2                                      | 2840 | 63  | 0,73 | 3,6          | 4     |                          |              |     |
| L4C15T235  | 1,5         | 2    | 220           | 7,4                                      | 2820 | 68  | 0,77 | 3,1          | 4,2   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 7,6                                      | 2830 | 68  | 0,72 | 3,4          | 4,3   |                          |              |     |
|            |             |      | 240           | 8                                        | 2840 | 67  | 0,68 | 3,7          | 4,3   |                          |              |     |
| L4C22T235  | 2,2         | 3    | 220           | 10                                       | 2810 | 72  | 0,8  | 3            | 4,3   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 230           | 10,2                                     | 2820 | 71  | 0,78 | 3,2          | 4,4   |                          |              |     |
|            |             |      | 240           | 10,7                                     | 2830 | 70  | 0,7  | 3,5          | 4,4   |                          |              |     |
| L4C30T235  | 3           | 4    | 220           | 13,7                                     | 2830 | 75  | 0,77 | 3            | 4,6   | 35                       | 4x1.5        | 2,7 |
|            |             |      | 230           | 14,3                                     | 2840 | 74  | 0,71 | 3,3          | 4,6   |                          |              |     |
|            |             |      | 240           | 15,2                                     | 2850 | 70  | 0,68 | 3,5          | 4,5   |                          |              |     |
| L4C40T235  | 4           | 5,5  | 220           | 16,4                                     | 2840 | 76  | 0,81 | 3,10         | 5,6   | 35                       | 4x2          | 2,7 |
|            |             |      | 230           | 17,3                                     | 2850 | 75  | 0,79 | 3,40         | 5,6   |                          |              |     |
|            |             |      | 240           | 18,2                                     | 2860 | 72  | 0,74 | 3,70         | 5,5   |                          |              |     |
| L4C55T235  | 5,5         | 7,5  | 220           | 23,4                                     | 2840 | 78  | 0,79 | 3            | 5,4   | 35                       | 4x2          | 2,7 |
|            |             |      | 230           | 24,2                                     | 2850 | 77  | 0,74 | 3,4          | 5,5   |                          |              |     |
|            |             |      | 240           | 25                                       | 2860 | 76  | 0,7  | 3,6          | 5,5   |                          |              |     |
| L4C03T405  | 0,37        | 0,5  | 380           | 1,5                                      | 2810 | 51  | 0,69 | 2,7          | 3,8   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 1,6                                      | 2820 | 53  | 0,7  | 3            | 3,8   |                          |              |     |
|            |             |      | 415           | 1,8                                      | 2830 | 48  | 0,67 | 3,2          | 3,4   |                          |              |     |
| L4C05T405  | 0,55        | 0,75 | 380           | 1,8                                      | 2820 | 61  | 0,77 | 2,8          | 4,2   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 1,9                                      | 2830 | 60  | 0,71 | 3,1          | 4,2   |                          |              |     |
|            |             |      | 415           | 2                                        | 2840 | 60  | 0,66 | 3,3          | 4,1   |                          |              |     |
| L4C07T405  | 0,75        | 1    | 380           | 2,3                                      | 2820 | 65  | 0,77 | 2,9          | 5     | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 2,4                                      | 2830 | 63  | 0,73 | 3,2          | 5     |                          |              |     |
|            |             |      | 415           | 2,6                                      | 2840 | 63  | 0,66 | 3,5          | 4,8   |                          |              |     |
| L4C11T405  | 1,1         | 1,5  | 380           | 3,3                                      | 2820 | 62  | 0,8  | 3            | 4     | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 3,4                                      | 2830 | 64  | 0,76 | 3,3          | 4,1   |                          |              |     |
|            |             |      | 415           | 3,6                                      | 2840 | 63  | 0,73 | 3,6          | 4     |                          |              |     |
| L4C15T405  | 1,5         | 2    | 380           | 4,3                                      | 2820 | 68  | 0,77 | 3,1          | 4,2   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 4,4                                      | 2830 | 68  | 0,72 | 3,4          | 4,3   |                          |              |     |
|            |             |      | 415           | 4,6                                      | 2840 | 67  | 0,68 | 3,7          | 4,3   |                          |              |     |
| L4C22T405  | 2,2         | 3    | 380           | 5,8                                      | 2810 | 72  | 0,8  | 3            | 4,1   | 35                       | 4x1.5        | 1,7 |
|            |             |      | 400           | 5,9                                      | 2820 | 71  | 0,78 | 3,2          | 4,4   |                          |              |     |
|            |             |      | 415           | 6,2                                      | 2830 | 70  | 0,7  | 3,5          | 4,3   |                          |              |     |
| L4C30T405  | 3           | 4    | 380           | 7,9                                      | 2830 | 75  | 0,77 | 3            | 4,5   | 35                       | 4x1.5        | 2,7 |
|            |             |      | 400           | 8,3                                      | 2840 | 74  | 0,71 | 3,3          | 4,6   |                          |              |     |
|            |             |      | 415           | 8,8                                      | 2850 | 70  | 0,68 | 3,5          | 4,5   |                          |              |     |
| L4C40T405  | 4           | 5,5  | 380           | 9,5                                      | 2840 | 76  | 0,81 | 3,1          | 5,6   | 35                       | 4x1.5        | 2,7 |
|            |             |      | 400           | 10                                       | 2850 | 75  | 0,79 | 3,4          | 5,6   |                          |              |     |
|            |             |      | 415           | 10,5                                     | 2860 | 72  | 0,74 | 3,7          | 5,5   |                          |              |     |
| L4C55T405  | 5,5         | 7,5  | 380           | 13,5                                     | 2840 | 78  | 0,79 | 3            | 5,4   | 35                       | 4x1.5        | 2,7 |
|            |             |      | 400           | 14                                       | 2850 | 77  | 0,74 | 3,4          | 5,5   |                          |              |     |
|            |             |      | 415           | 14,5                                     | 2860 | 76  | 0,7  | 3,6          | 5,5   |                          |              |     |
| L4C75T405  | 7,5         | 10   | 380           | 17                                       | 2840 | 80  | 0,84 | 2,6          | 4,7   | 35                       | 4x2          | 3,5 |
|            |             |      | 400           | 17,4                                     | 2850 | 79  | 0,79 | 2,9          | 4,8   |                          |              |     |
|            |             |      | 415           | 18,1                                     | 2860 | 76  | 0,75 | 3,1          | 4,8   |                          |              |     |

\* Ts/Tn = ratio between starting torque and nominal torque.

l4ct-2p50-en\_c\_te