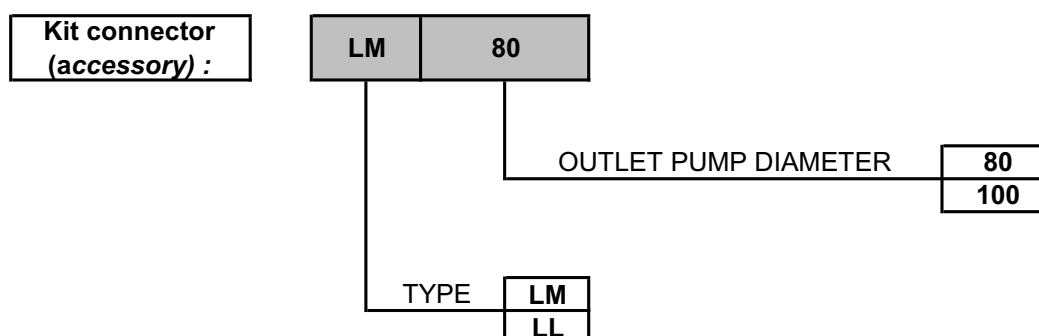
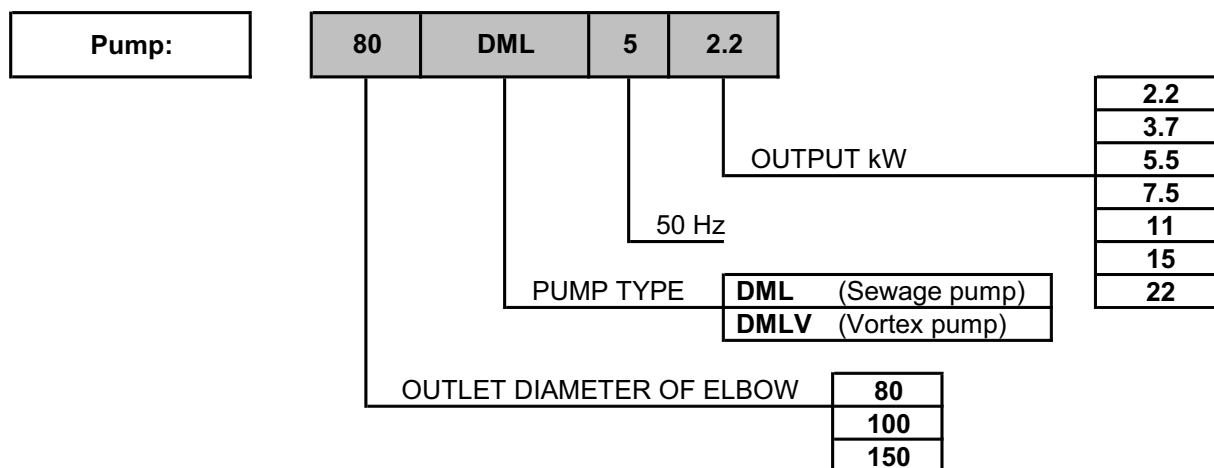


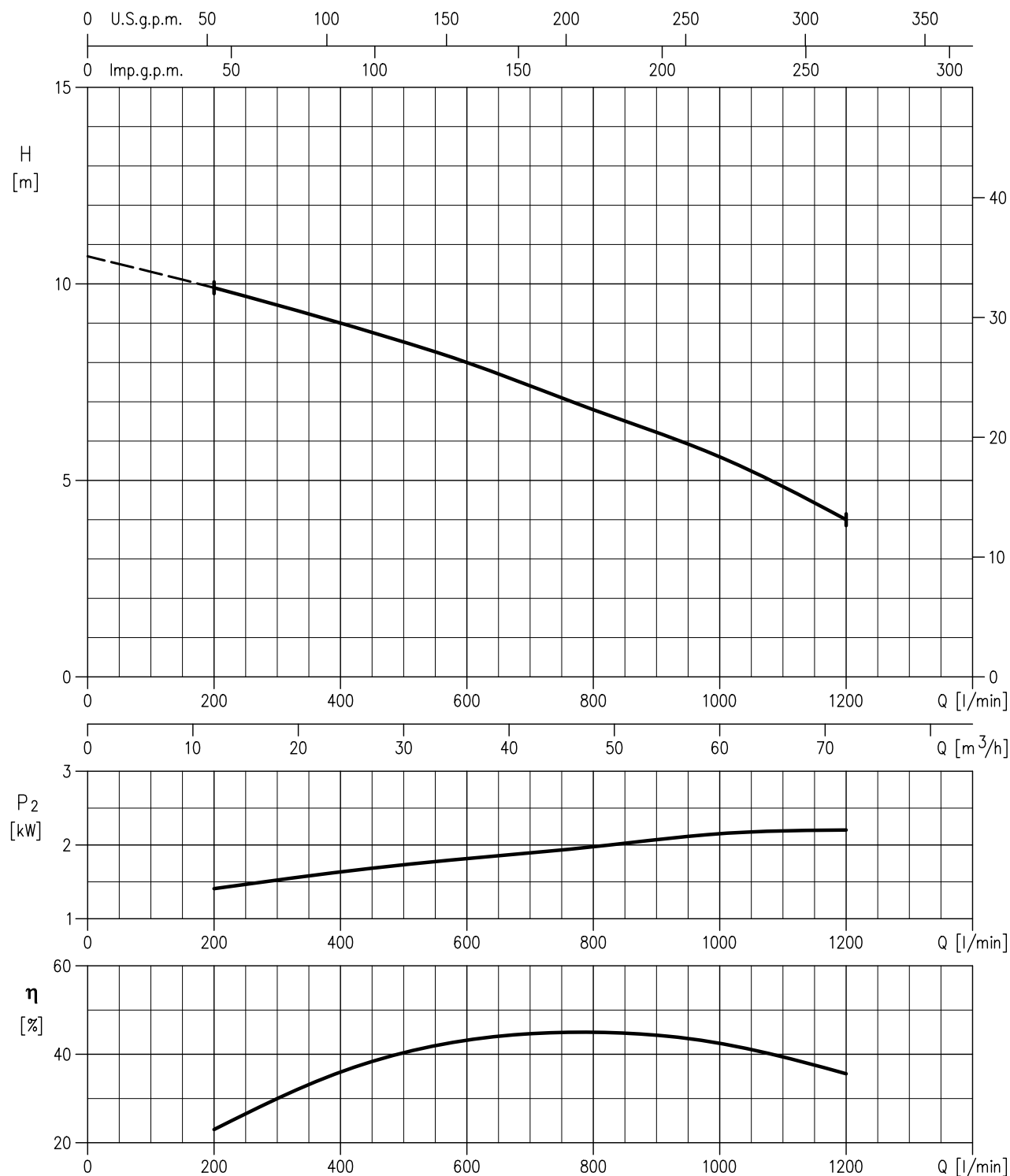
| PUMP                        |                            |          |                                                 |
|-----------------------------|----------------------------|----------|-------------------------------------------------|
| Scope                       | Discharge                  | [ mm ]   | 80 - 100                                        |
|                             | Motor Power                | [ kW ]   | 2.2 - 22                                        |
|                             | Performance                | Capacity | [ m <sup>3</sup> /h ]                           |
|                             |                            | Head     | [ m ]                                           |
| Liquid                      | Type                       |          | Sewage                                          |
|                             | Maximum temperature        | [ °C ]   | 40                                              |
|                             | Maximum diameter of solids | [ mm ]   | Equivalent to the pump diameter                 |
|                             | Length fibrous shape       | [ mm ]   | Ø 80 : 400 mm<br>Ø 100 : 500 mm                 |
| Submergence                 | Maximum                    | [ m ]    | 8                                               |
|                             | Minimum                    |          | Refer to low water level (L.W.L.) in dimensions |
| Construction                | Impeller                   |          | Vortex                                          |
|                             | Mechanical seal            |          | Oil lubricated, double mechanical seals         |
| Materials                   | Casing                     |          | Cast iron                                       |
|                             | Impeller                   |          | Cast iron                                       |
|                             | Shaft                      |          | 403 Stainless steel                             |
|                             | Motor frame                |          | Cast iron                                       |
|                             | Fasteners                  |          | 304 Stainless steel                             |
|                             | Mechanical seal            |          | Upper Faces: Carbon / Ceramic/NBR               |
|                             |                            |          | Lower Faces: SiC / SiC/NBR                      |
|                             |                            |          | Lubricating Oil: Turbine Oil VG32 (SAE10W/20W)  |
| Accessories                 | Kit connector              |          |                                                 |
| Applicable standard of test |                            |          | ISO 9906 annex A                                |

| MOTOR |                   |                                            |
|-------|-------------------|--------------------------------------------|
| Motor | Type              | Air filled dry submersible<br>Three Phase  |
|       | No. of Poles      | 4                                          |
|       | Insulation Class  | Class F                                    |
|       | Protection degree | IP X8                                      |
|       | Nominal Speed     | [ min <sup>-1</sup> ]                      |
|       | Frequency         | [ Hz ]                                     |
|       | Voltage           | [ V ]                                      |
|       | Starting          | DOL (2.2 kW)                               |
|       |                   | Delta (3.7 to 22kW)                        |
|       | Protection        | In built overload protection (2.2 kW)      |
|       |                   | Miniature thermal protector (3.7 to 22 kW) |
|       | Bearings          | Sealed ball bearing with permanent grease  |
| Cable | Lenght            | [ m ]                                      |

**SELECTION CHART**50 Hz  
REV.A

**PERFORMANCE CURVE****50 Hz**

REV.A

**80DMLV52.2**Impeller diameter  $\approx 185$  mmRotation speed  $\approx 1450 \text{ min}^{-1}$ 

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

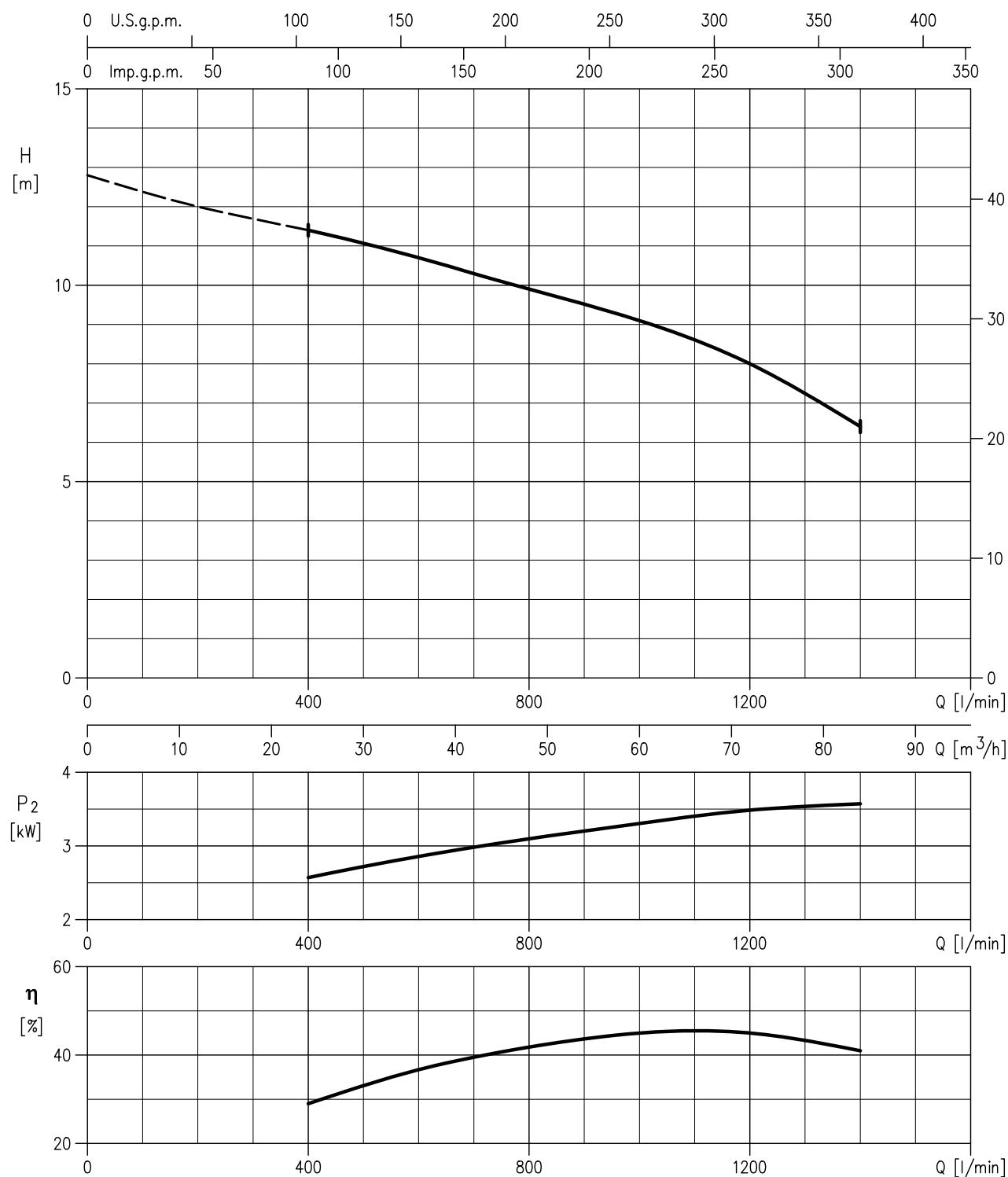
## PERFORMANCE CURVE

50 Hz

REV.A

**80DMLV53.7**

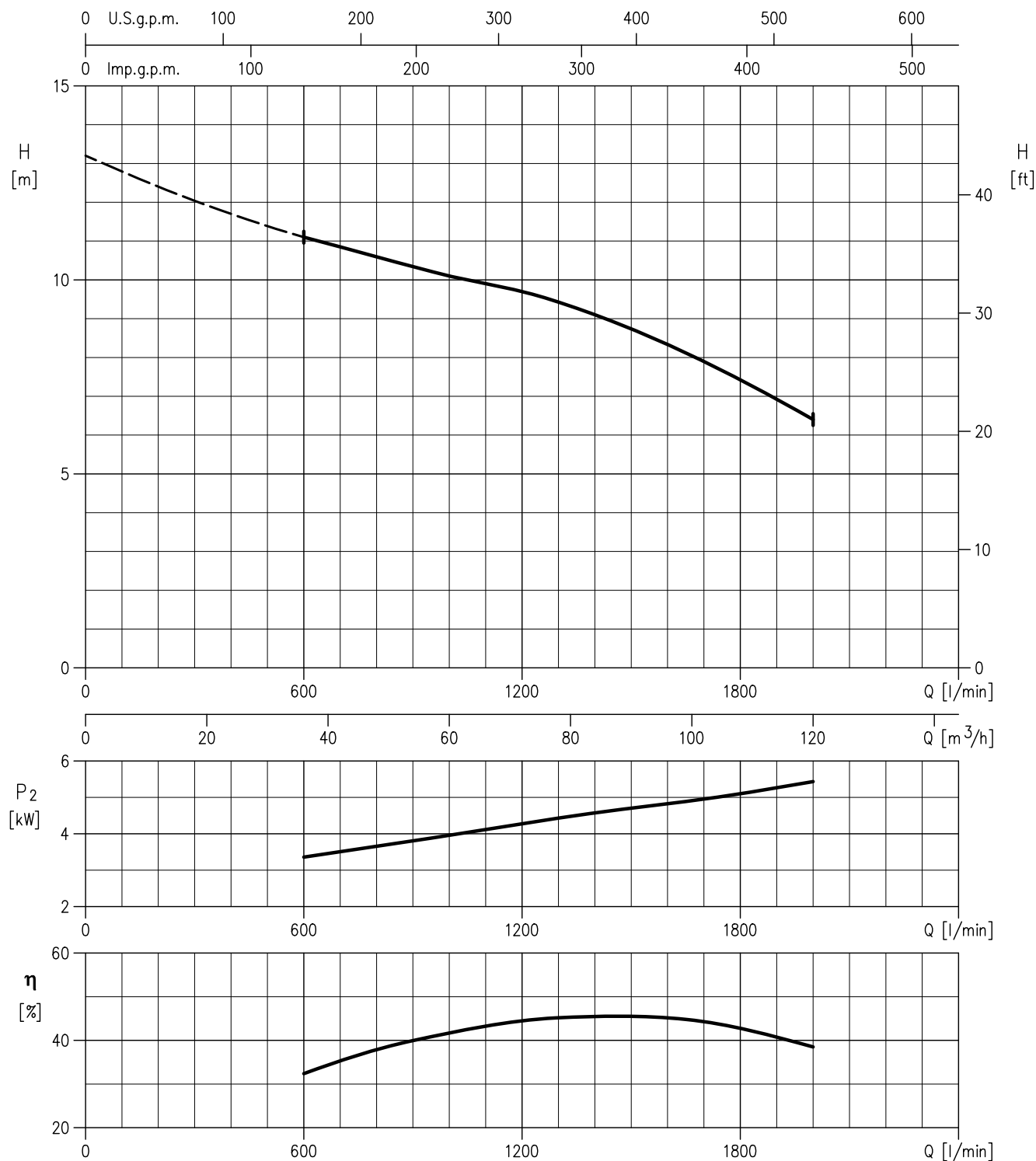
Impeller diameter  $\varnothing 204\text{mm}$



Rotation speed  $\approx 1400 \text{ min}^{-1}$   
 Test fluid : clean water at 20°C  
 Applicable standard of test : ISO 9906 Annex A

**PERFORMANCE CURVE****50 Hz**

REV.A

**100DMLV55.5**Impeller diameter  $\approx 211$  mmRotation speed  $\approx 1450 \text{ min}^{-1}$ 

Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

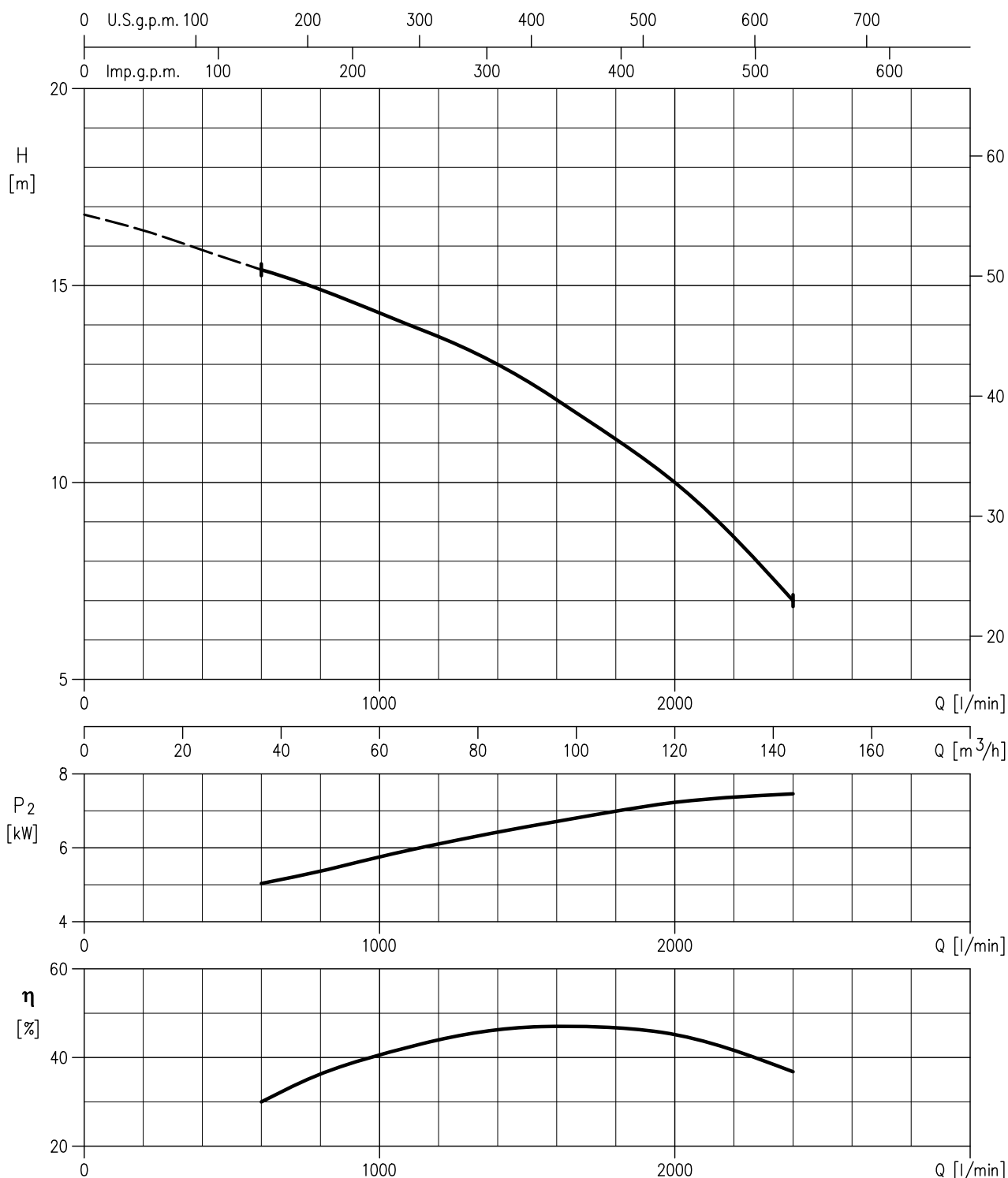
## PERFORMANCE CURVE

50 Hz

REV.A

### 100DMLV57.5

Impeller diameter = 231 mm



Rotation speed  $\approx 1450 \text{ min}^{-1}$   
 Test fluid : clean water at 20°C  
 Applicable standard of test : ISO 9906 annex A

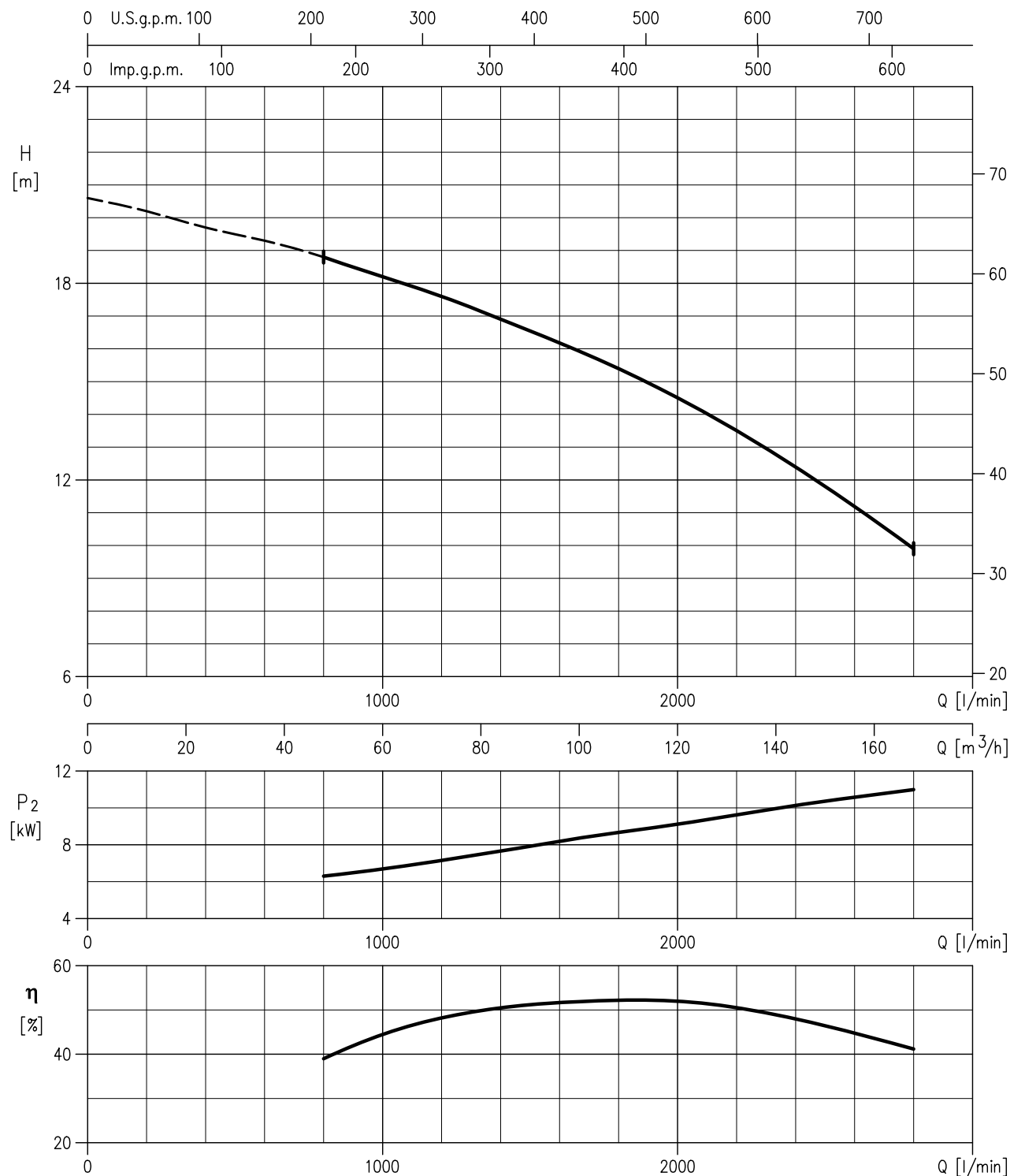
## PERFORMANCE CURVE

50 Hz

REV.A

### 100DMLV511

Impeller diameter  $\approx 251$  mm



Rotation speed  $\approx 1450 \text{ min}^{-1}$   
 Test fluid : clean water at 20°C  
 Applicable standard of test : ISO 9906 annex A

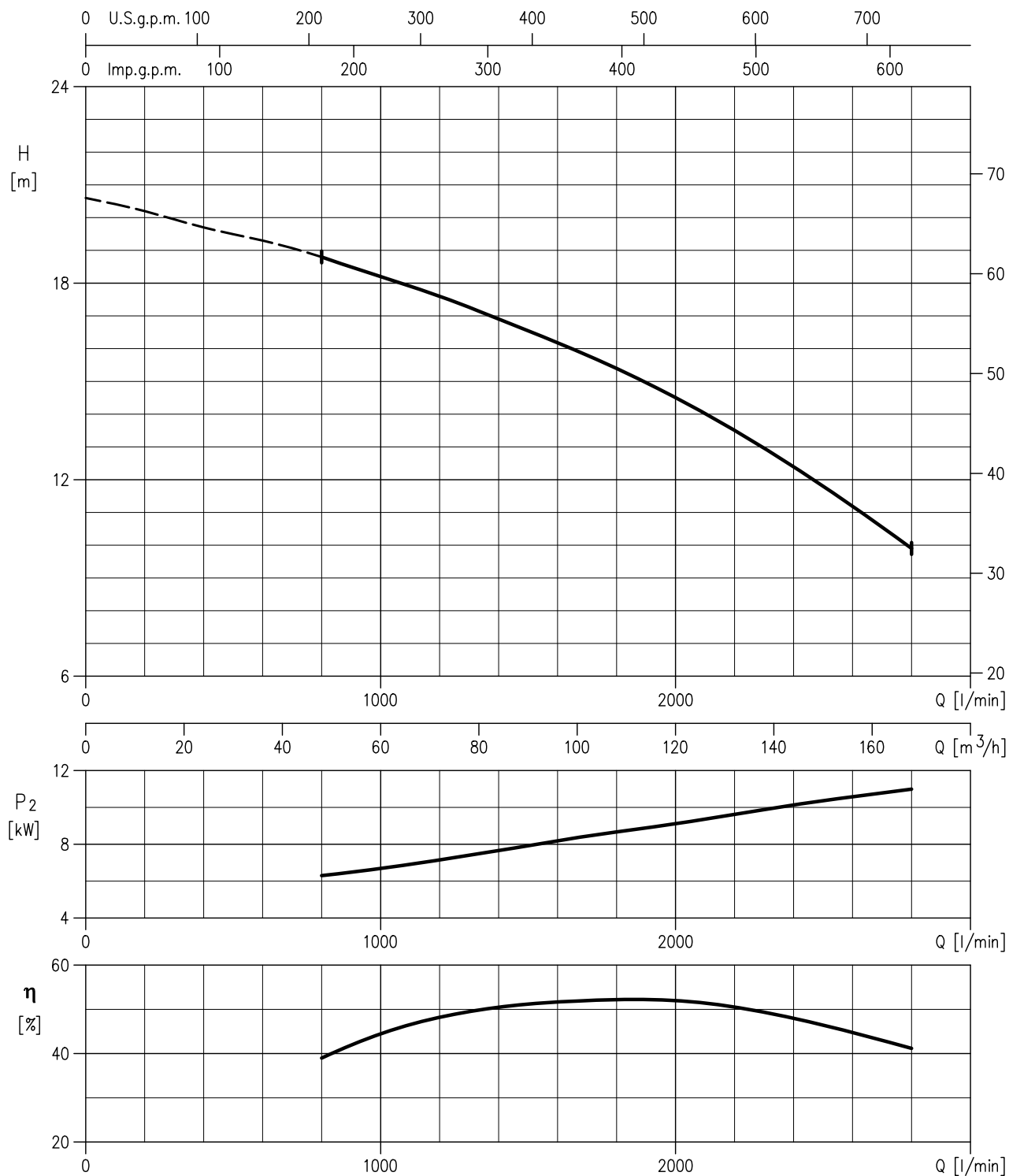
## PERFORMANCE CURVE

50 Hz

REV.A

### 100DMLV515

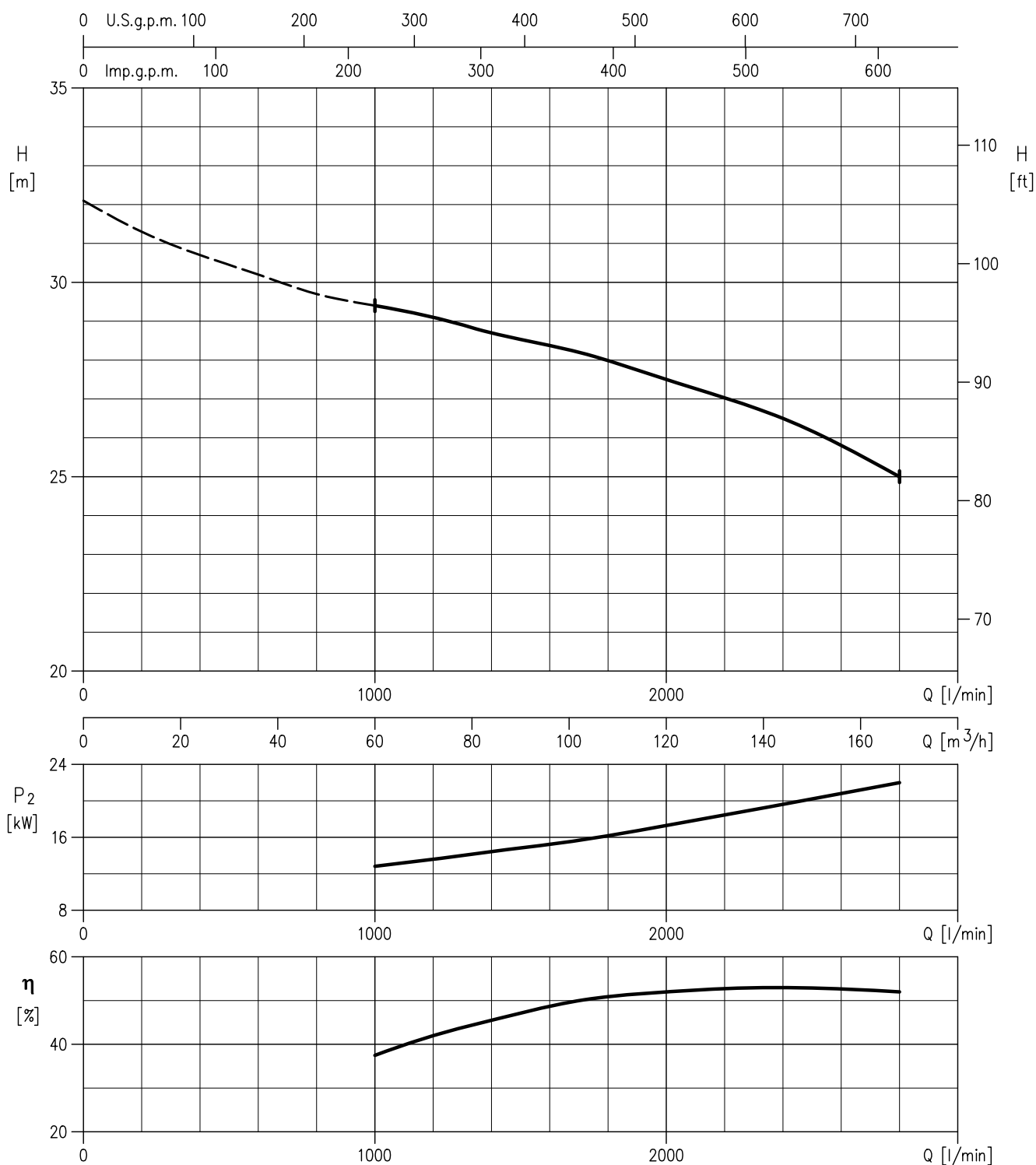
Impeller diameter = 268 mm



Rotation speed  $\approx 1450 \text{ min}^{-1}$   
 Test fluid : clean water at 20°C  
 Applicable standard of test : ISO 9906 annex A

**PERFORMANCE CURVE****50 Hz**

REV.A

**100DMLV522**Impeller diameter  $\approx 300$  mmRotation speed  $\approx 1450$  min<sup>-1</sup>

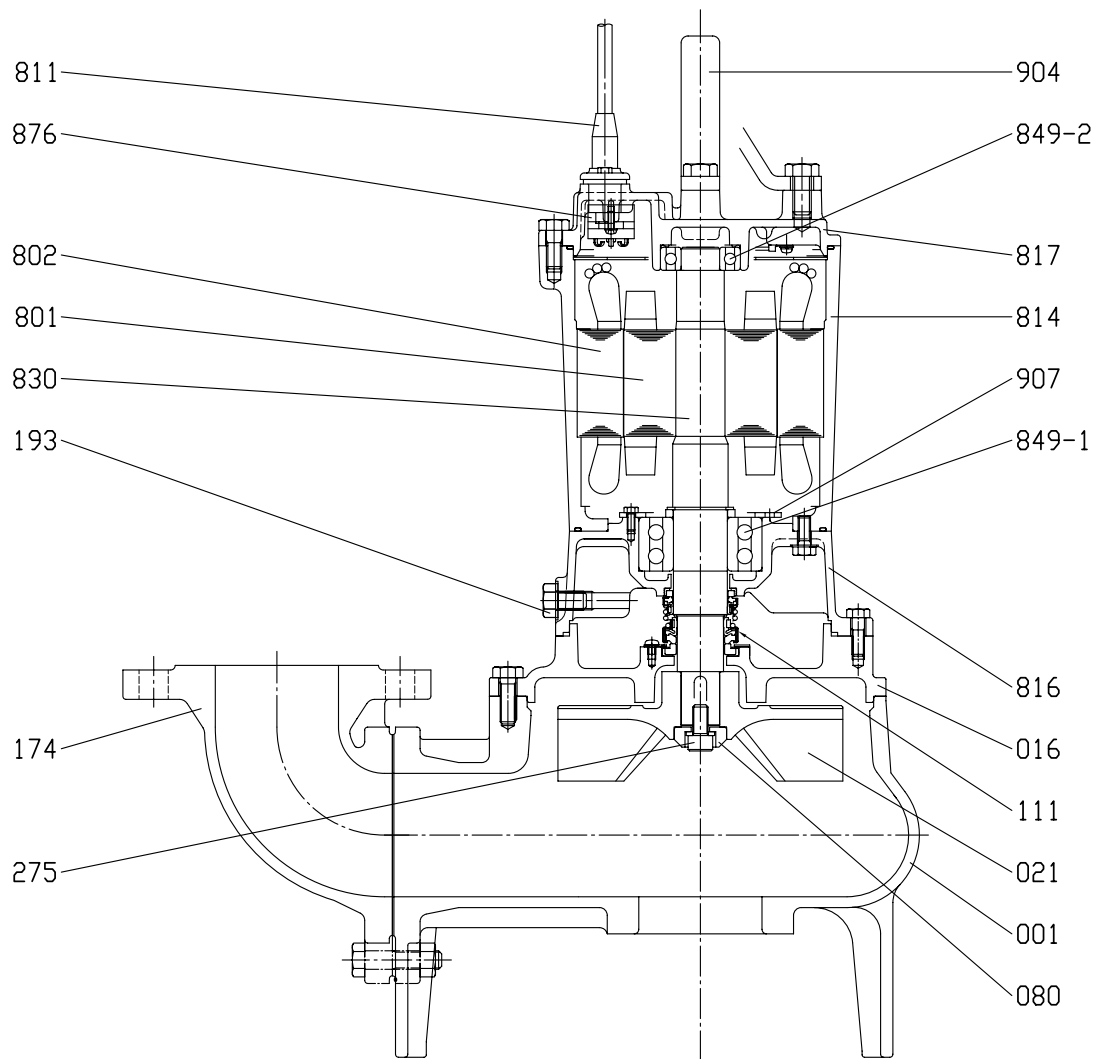
Test fluid : clean water at 20°C

Applicable standard of test : ISO 9906 annex A

**SECTIONAL VIEW : DMLV**

**50Hz**  
REV.A

**80 DMLV 52.2**



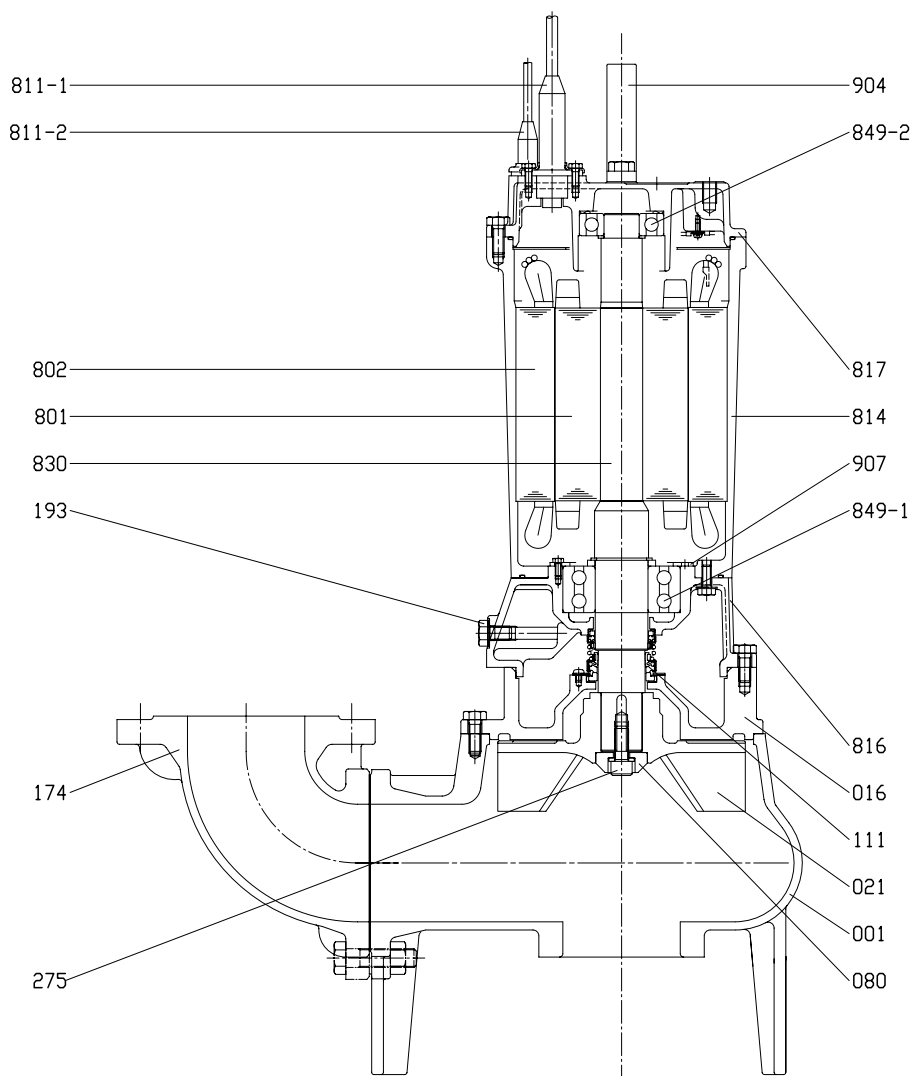
| N°  | PART.NAME             | MATERIAL                                  | No.FOR UNIT | N°    | PART.NAME             | MATERIAL                           | No.FOR UNIT |
|-----|-----------------------|-------------------------------------------|-------------|-------|-----------------------|------------------------------------|-------------|
| 001 | Pump Casing           | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 811   | Submersible Cable     | -                                  | 2           |
| 016 | Mechanical Seal Cover | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 814   | Motor Frame           | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 021 | Impeller              | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 816   | Power Side Bracket    | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 080 | Bushing               | Steel                                     | 1           | 817   | Opposite Side Bracket | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 111 | Mechanical seal       | -                                         | 1           | 830   | Shaft                 | EN 1.4006 (AISI403)                | 1           |
| 174 | Discharge Bend        | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 849-1 | Ball Bearing          | -                                  | 1           |
| 193 | Oil Plug              | NBR/Stainless Steel                       | 1 set       | 849-2 | Ball Bearing          | -                                  | 1           |
| 275 | Impeller screw        | Stainless steel A2-70<br>class ISO 3506/1 | 1           | 876   | Auto Cut              | -                                  | 1           |
| 801 | Rotor                 | -                                         | 1           | 904   | Lifting Hanger        | Steel                              | 1           |
| 802 | Stator                | -                                         | 1           | 907   | Bearing Cover         | Steel                              | 1           |

## SECTIONAL VIEW : DMLV

50Hz

REV.A

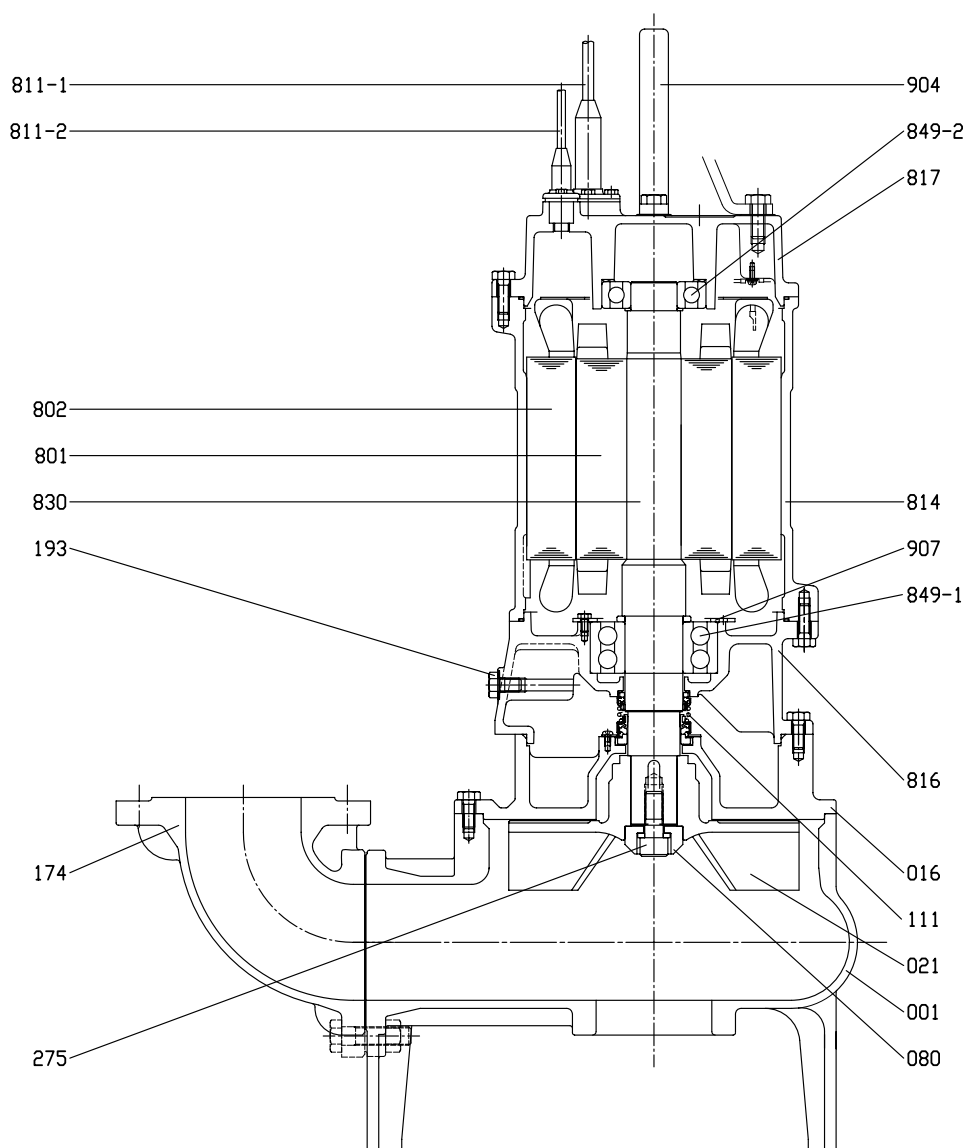
### DMLV (3.7÷7.5kW)



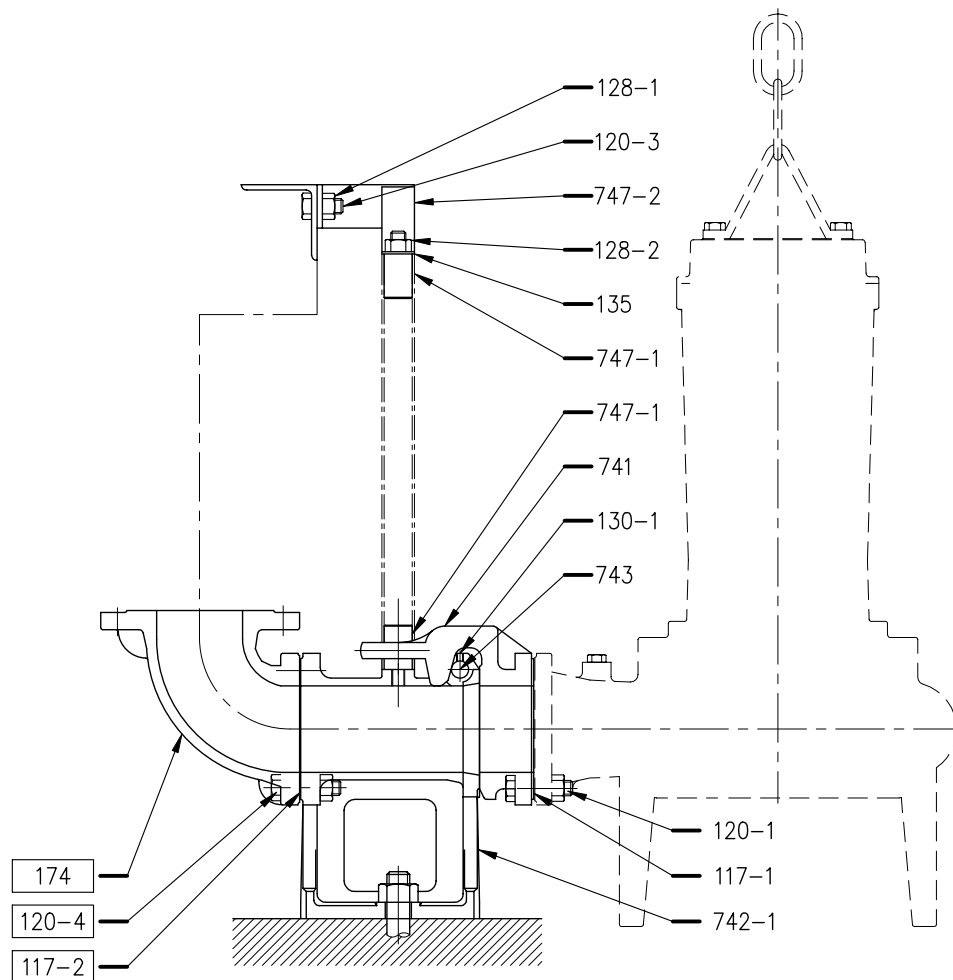
| N°  | PART.NAME             | MATERIAL                                  | No.FOR UNIT | N°    | PART.NAME                  | MATERIAL                           | No.FOR UNIT |
|-----|-----------------------|-------------------------------------------|-------------|-------|----------------------------|------------------------------------|-------------|
| 001 | Pump Casing           | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 811-1 | Submersible Cable (power)  | -                                  | 2           |
| 016 | Mechanical Seal Cover | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 811-2 | Submersible Cable (signal) | -                                  | 1           |
| 021 | Impeller              | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 814   | Motor Frame                | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 080 | Bushing               | Steel                                     | 1           | 816   | Power Side Bracket         | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 111 | Mechanical seal       | -                                         | 1           | 817   | Opposite Side Bracket      | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 174 | Discharge Bend        | Cast iron<br>EN-GHJL-200 - EN 1561        | 1           | 830   | Shaft                      | EN 1.4006 (AISI403)                | 1           |
| 193 | Oil Plug              | NBR/Stainless Steel                       | 1 set       | 849-1 | Ball Bearing               | -                                  | 1           |
| 275 | Impeller screw        | Stainless steel A2-70<br>class ISO 3506/1 | 1           | 849-2 | Ball Bearing               | -                                  | 1           |
| 801 | Rotor                 | -                                         | 1           | 904   | Lifting Hanger             | Steel                              | 1           |
| 802 | Stator                | -                                         | 1           | 907   | Bearing Cover              | Steel                              | 1           |

**SECTIONAL VIEW : DMLV****50Hz**

REV.A

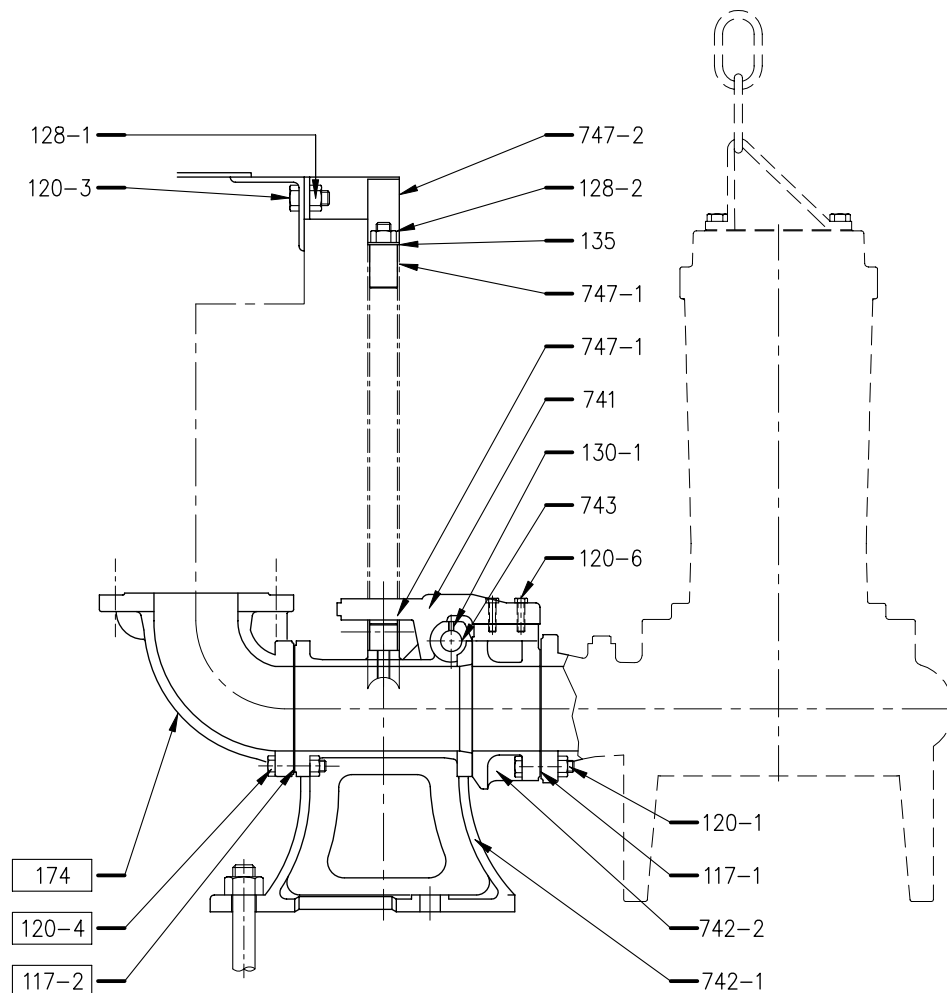
**DMLV (11÷22kW)**

| N°  | PART.NAME             | MATERIAL                                                      | No.FOR UNIT | N°    | PART.NAME                  | MATERIAL                           | No.FOR UNIT |
|-----|-----------------------|---------------------------------------------------------------|-------------|-------|----------------------------|------------------------------------|-------------|
| 001 | Pump Casing           | Cast iron<br>EN-GHJL-200 - EN 1561                            | 1           | 811-1 | Submersible Cable (power)  | -                                  | 2           |
| 016 | Mechanical Seal Cover | Cast iron<br>EN-GHJL-200 - EN 1561                            | 1           | 811-2 | Submersible Cable (signal) | -                                  | 1           |
| 021 | Impeller              | EN-GHJL-200-EN 1561 (11 kW)<br>EN-GJS-400 -EN 1563 (15-22 kW) | 1           | 814   | Motor Frame                | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 080 | Bushing               | Steel                                                         | 1           | 816   | Power Side Bracket         | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 111 | Mechanical seal       | -                                                             | 1           | 817   | Opposite Side Bracket      | Cast iron<br>EN-GHJL-200 - EN 1561 | 1           |
| 174 | Discharge Bend        | Cast iron<br>EN-GHJL-200 - EN 1561                            | 1           | 830   | Shaft                      | EN 1.4006 (AISI403)                | 1           |
| 193 | Oil Plug              | NBR/Stainless Steel                                           | 1 set       | 849-1 | Ball Bearing               | -                                  | 1           |
| 275 | Impeller screw        | Stainless steel A2-70<br>class ISO 3506/1                     | 1           | 849-2 | Ball Bearing               | -                                  | 1           |
| 801 | Rotor                 | -                                                             | 1           | 904   | Lifting Hanger             | Steel                              | 1           |
| 802 | Stator                | -                                                             | 1           | 907   | Bearing Cover              | Steel                              | 1           |

**LM80 (Optional)**

| N°    | PART.NAME  | MATERIAL                 | No.FOR UNIT | N°    | PART.NAME      | MATERIAL                                              | No.FOR UNIT |
|-------|------------|--------------------------|-------------|-------|----------------|-------------------------------------------------------|-------------|
| 117-1 | Gasket     | NBR Rubber               | 1           | 135   | Washer         | AISI 304 Stainless Steel                              | 2           |
| 117-2 | Gasket     | Aramide fibers           | 1           | 174   | Discharge Bend | Cast iron<br>EN-GHJL-200 - EN 1561                    | 1           |
| 120-1 | Bolt       | AISI 304 Stainless Steel | 4           | 741   | Sliding Guide  | Spheroidal graphite cast iron<br>EN-GJS-400 - EN 1563 | 1           |
| 120-3 | Bolt       | AISI 304 Stainless Steel | 2           | 742-1 | QCD Body       | Cast iron<br>EN-GHJL-200 - EN 1561                    | 1           |
| 120-4 | Bolt & Nut | AISI 304 Stainless Steel | 4           | 743   | Suspension Bar | AISI 304 Stainless Steel                              | 1           |
| 128-1 | Nut        | AISI 304 Stainless Steel | 2           | 747-1 | Guide Pin      | Steel                                                 | 4           |
| 128-2 | Nut        | AISI 304 Stainless Steel | 2           | 747-2 | Guide Support  | Steel                                                 | 1           |
| 130-1 | Set Screw  | AISI 304 Stainless Steel | 1           |       |                |                                                       |             |

Note: Those parts with item number indicated in a are supplied with the pump.

**LL100 (Optional)**

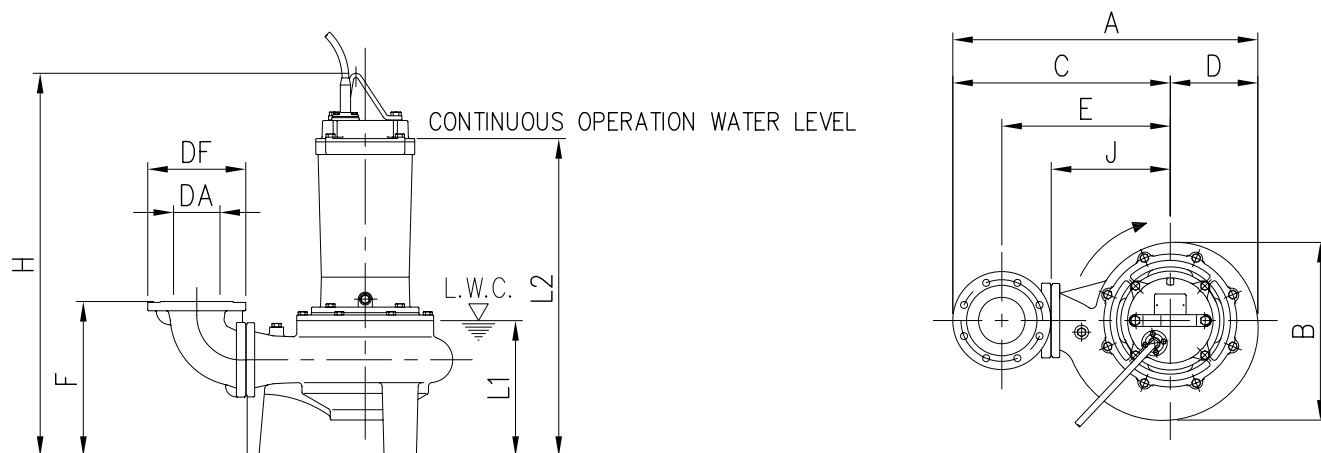
| N°    | PART.NAME  | MATERIAL                 | No.FOR UNIT | N°    | PART.NAME      | MATERIAL                                              | No.FOR UNIT |
|-------|------------|--------------------------|-------------|-------|----------------|-------------------------------------------------------|-------------|
| 117-1 | Gasket     | NBR Rubber               | 1           | 135   | Washer         | AISI 304 Stainless Steel                              | 2           |
| 117-2 | Gasket     | Aramide fibers           | 1           | 174   | Discharge Bend | Cast iron<br>EN-GHJL-200 - EN 1561                    | 1           |
| 120-1 | Bolt       | AISI 304 Stainless Steel | 4           | 741   | Sliding Guide  | Spheroidal graphite cast iron<br>EN-GJS-400 - EN 1563 | 1           |
| 120-3 | Bolt       | AISI 304 Stainless Steel | 2           | 742-1 | QCD Body       | Cast iron<br>EN-GHJL-200 - EN 1561                    | 1           |
| 120-4 | Bolt & Nut | AISI 304 Stainless Steel | 4           | 742-2 | QDC Flange     | Cast iron<br>EN-GHJL-200 - EN 1561                    | 1           |
| 120-6 | Bolt       | AISI 304 Stainless Steel | 4           | 743   | Suspension Bar | AISI 304 Stainless Steel                              | 1           |
| 128-1 | Nut        | AISI 304 Stainless Steel | 2           | 747-1 | Guide Pin      | Steel                                                 | 4           |
| 128-2 | Nut        | AISI 304 Stainless Steel | 2           | 747-2 | Guide Support  | Steel                                                 | 1           |
| 130-1 | Set Screw  | AISI 304 Stainless Steel | 1           |       |                |                                                       |             |

Note: Those parts with item number indicated in a are supplied with the pump.

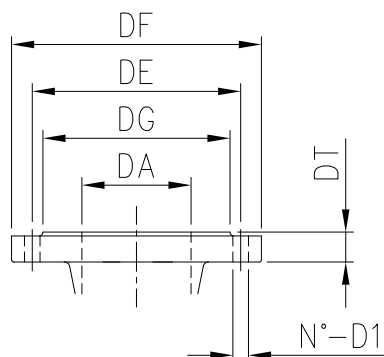
## DIMENSIONS OF PUMPS : DMLV

50 Hz

REV.A

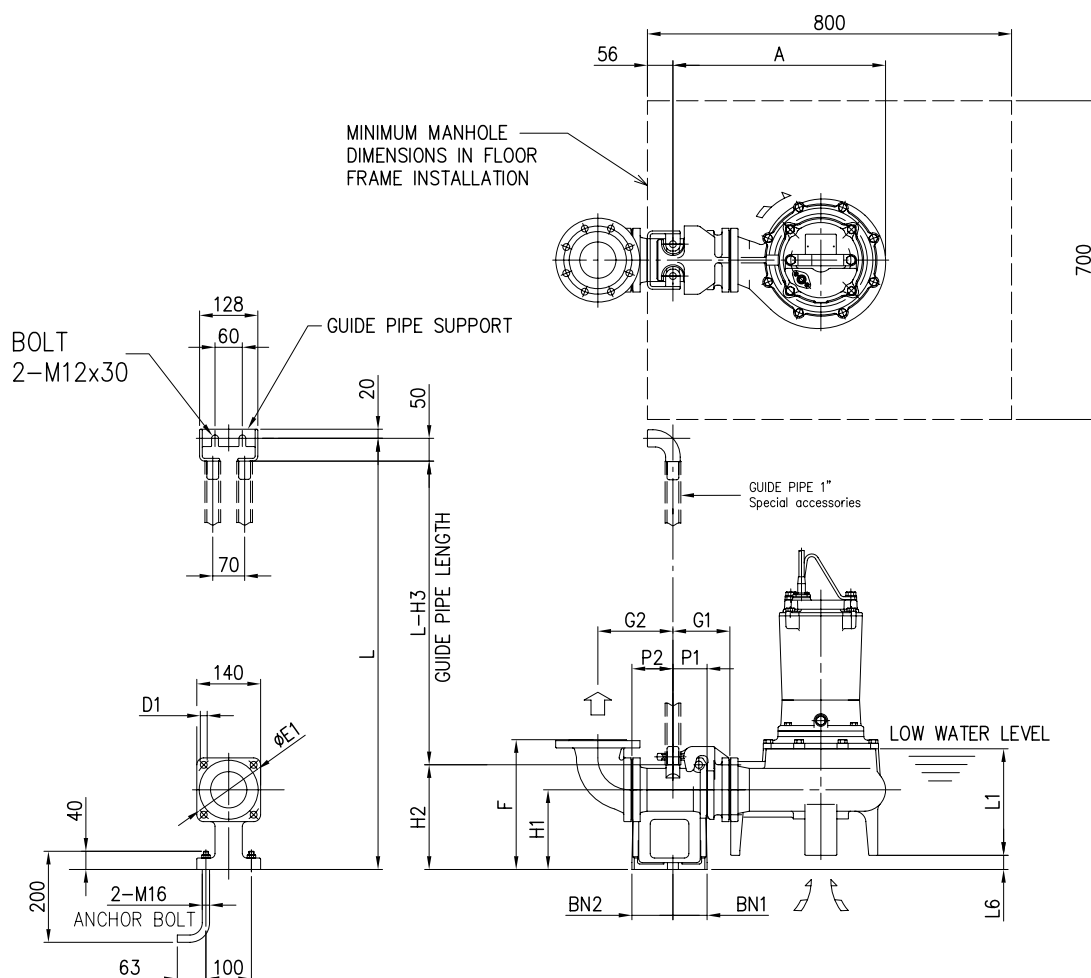


- 1) L.W.L (Low water Level) is limited: to 10 minutes operation at low water level.
- 2) It is limited to 30 minutes operation with water level below top of motor.



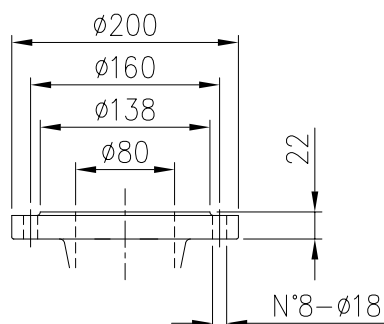
Discharge flange dimensions PN 10  
According to EN 1092-2

| PUMP TYPE<br>DMLV | DIMENSIONS |     |     |     |     |    |    |    |     |     |     |     |     |     |      |     |     |     | Weight<br>[kg] |
|-------------------|------------|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------------|
|                   | DA         | kW  | DE  | DF  | DG  | DT | N° | D1 | A   | B   | C   | D   | E   | F   | H    | J   | L1  | L2  |                |
| 80DMLV52.2        | 80         | 2,2 | 160 | 200 | 138 | 22 | 8  | 18 | 518 | 285 | 375 | 143 | 275 | 254 | 660  | 200 | 200 | 560 | 70             |
| 80DMLV53.7        |            | 3,7 | 160 | 200 | 138 | 22 | 8  | 18 | 518 | 285 | 375 | 143 | 275 | 254 | 721  | 200 | 200 | 620 | 80             |
| 100DMLV55.5       | 100        | 5,5 | 180 | 220 | 158 | 24 | 8  | 22 | 584 | 308 | 430 | 154 | 320 | 305 | 860  | 215 | 250 | 760 | 105            |
| 100DMLV57.5       |            | 7,5 | 180 | 220 | 158 | 24 | 8  | 22 | 641 | 352 | 465 | 176 | 355 | 305 | 860  | 250 | 250 | 760 | 120            |
| 100DMLV511        |            | 11  | 180 | 220 | 158 | 24 | 8  | 22 | 641 | 352 | 465 | 176 | 355 | 305 | 970  | 250 | 250 | 810 | 150            |
| 100DMLV515        |            | 15  | 180 | 220 | 158 | 24 | 8  | 22 | 728 | 426 | 515 | 213 | 405 | 305 | 970  | 300 | 250 | 810 | 180            |
| 100DMLV522        |            | 22  | 180 | 220 | 158 | 24 | 8  | 22 | 728 | 426 | 515 | 213 | 405 | 305 | 1045 | 300 | 250 | 865 | 235            |



**Note:**

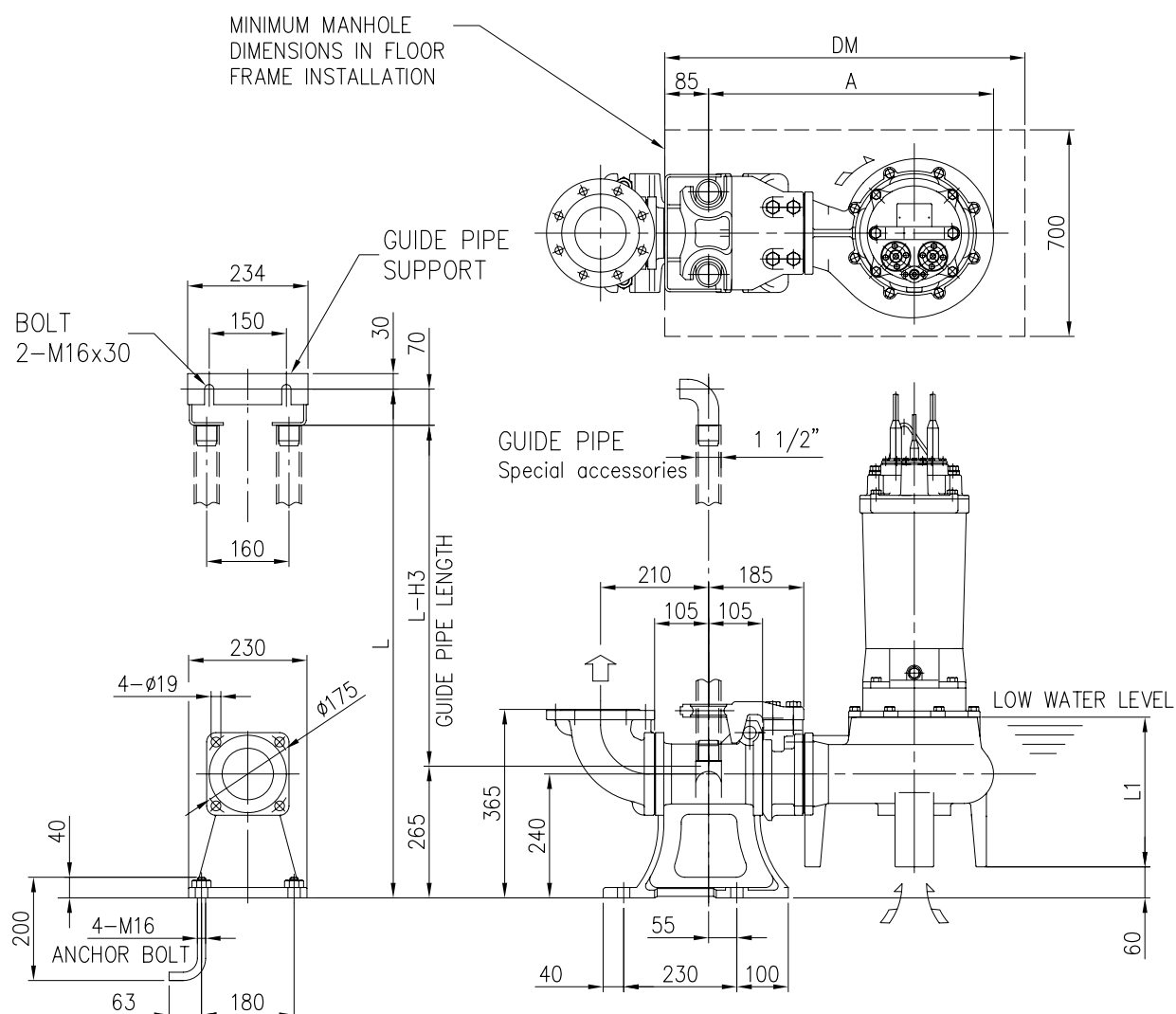
- 1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
- 2) The discharge bend supplied with the pump are used with the QDC.
- 3) The weight in dimension tables refers only the weight of the QDC.



Discharge Flange Dimensions PN 10  
According to EN 1092 - 2

| PUMP TYPE<br>DMLV | A   | P1 | P2 | G1  | G2  | F   | H1  | H2  | H3  | L1  | L6 | BN1 | BN2 | D1 | E1  | KIT<br>CONNECTOR | WEIGHT<br>[ kgf ] |
|-------------------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|------------------|-------------------|
| 80 DMLV52.2       | 468 | 75 | 90 | 125 | 165 | 285 | 175 | 230 | 280 | 200 | 31 | 75  | 90  | 15 | 155 | LM80             | 17                |
| 80 DMLV53.7       | 468 | 75 | 90 | 125 | 165 | 285 | 175 | 230 | 280 | 200 | 31 | 75  | 90  | 15 | 155 |                  |                   |

### Applicable Models – DMLV

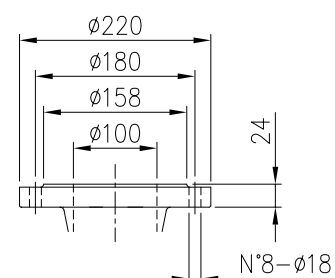


#### Note:

- 1) For detailed dimensions of the pumps, refer to separate dimension data sheets.
- 2) The discharge bend supplied with the pump are used with the **Q**.
- 3) The weight in dimension tables refers only the weight of the **Q**.

| PUMP TYPE<br>DMLV | A   | H3  | L1  | KIT CONNECTOR | WEIGHT<br>[ kgf ] |
|-------------------|-----|-----|-----|---------------|-------------------|
| 100DML55,5        | 554 | 335 | 250 | LL100         | 6                 |
| 100DML75          | 61  | 335 | 250 |               |                   |
| 100DML11          | 61  | 335 | 250 |               |                   |
| 100DML15          | 8   | 335 | 300 |               |                   |
| 100DML22          | 8   | 335 | 300 |               |                   |

#### Discharge Flange Dimensions PN0 According to EN02 - 2



## TECHNICAL DATA : MOTOR

50 Hz

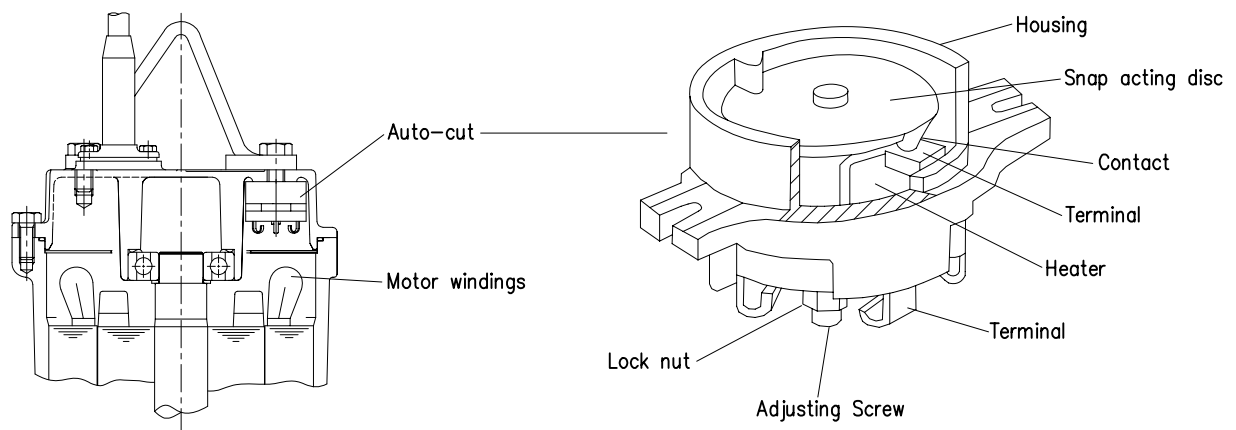
REV.A

| Output kW                            |                  | 2,2   | 3,7   | 5,5   | 7,5  | 11    | 15   | 22   |
|--------------------------------------|------------------|-------|-------|-------|------|-------|------|------|
|                                      | Phase            | 3     |       |       |      |       |      |      |
|                                      | Poles            | 4     |       |       |      |       |      |      |
|                                      | Insulation Class | F     |       |       |      |       |      |      |
|                                      | Full Load        |       |       |       |      |       |      |      |
| Voltage [V]                          |                  | 200   | 200   | 200   | 200  | 200   | 200  | 200  |
| Current [A]                          |                  | 5,2   | 8,4   | 12,6  | 16,9 | 23,8  | 31   | 17,9 |
| Efficiency %                         |                  | 65    | 72,7  | 75    | 79   | 74    | 80,2 | 65   |
| Power factor %                       |                  | 65    | 74    | 83    | 89   | 8,8   | 65   | 83   |
| Locked Rotor Torque %                |                  | 204   | 226   | -     | 252  | -     | 256  | -    |
| Start Current [A]                    |                  | 25,7  | 31    | -     | 38,6 | -     | 116  | -    |
| Starts per hour                      |                  | 20    |       |       |      |       |      |      |
| Voltage Tolerance                    |                  | ±10%  |       |       |      |       |      |      |
| Frequency Tolerance                  |                  | ±5%   |       |       |      |       |      |      |
| GD <sup>2</sup> [kgxm <sup>2</sup> ] |                  | 0,020 | 0,030 | 0,059 | 0,06 | 0,120 | 0,16 | 0,30 |

### Applicable to DML-DMLV 2.2 KW

The three pole auto-cuts model is illustrated below.

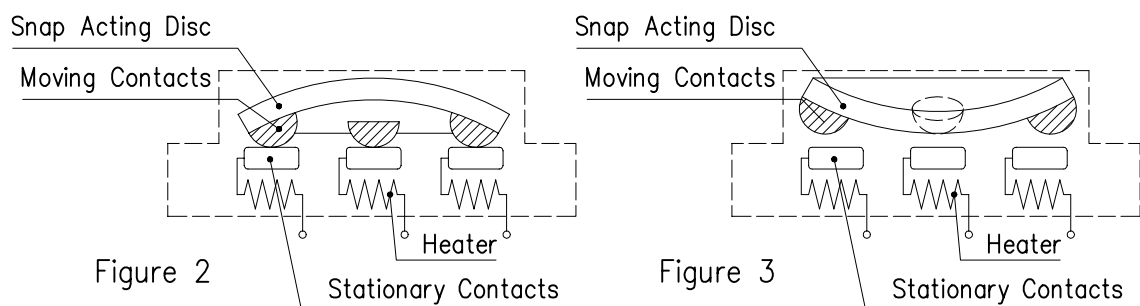
The Auto-Cut consists on: 3 sets of contacts, 1 snap-acting disk, 3 heaters, 3 terminals and 1 calibration bolt and nut, all enclosed in a bakelite housing.



The Auto-Cut is installed directly over the motor winding of the motor where it not only senses over heating of the winding but also excess amperage draw by each winding.

Figure 2 shows the Auto-Cut in its normal operating condition (contact closed). When actuating temperature is reached, the snap acting disc opens to interrupt the circuit as shown in figure 3 and stops the motor.

When the motor temperature cools down to the safe operating temperature, the snap acting disc resets automatically to the original position as shown in figure 2, and the motor restart!



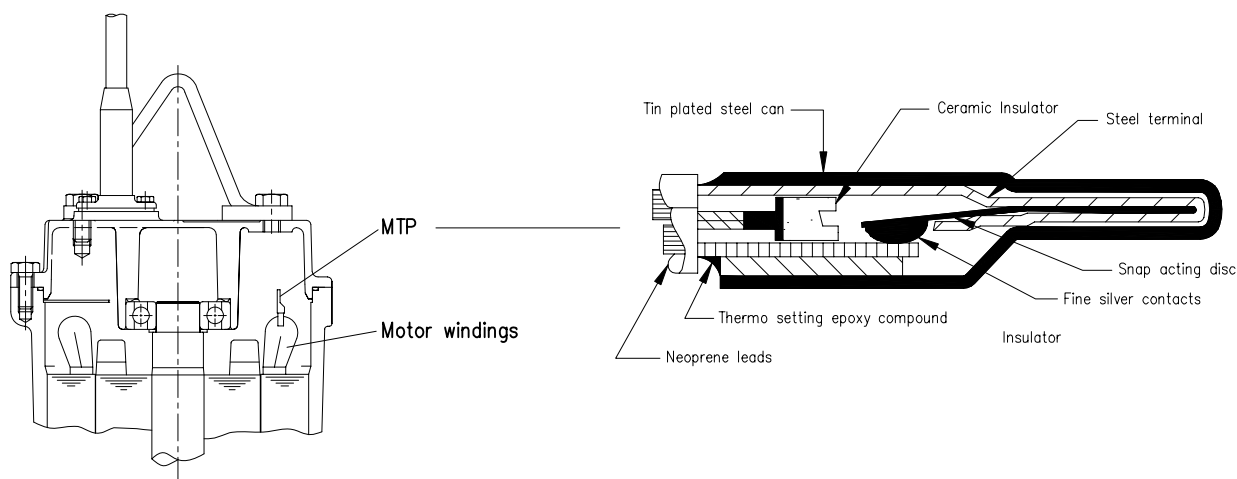
### Auto-Cut Part Numbers

| Phase | Power kW | Auto-Cut        |
|-------|----------|-----------------|
| Three | 2.2      | KA-313-GCLXL102 |

**Applicable from DML-DMLV 3.7 to 22 kW**

A Miniature Thermal Protector (MTP) is embedded in each winding of the motor as illustrated below, and provides automatic cut off with manual reset.

When the temperature of the windings increases and reaches the MTP acting point, an external motor protection circuit (not supplied) is activated.

**Specification**

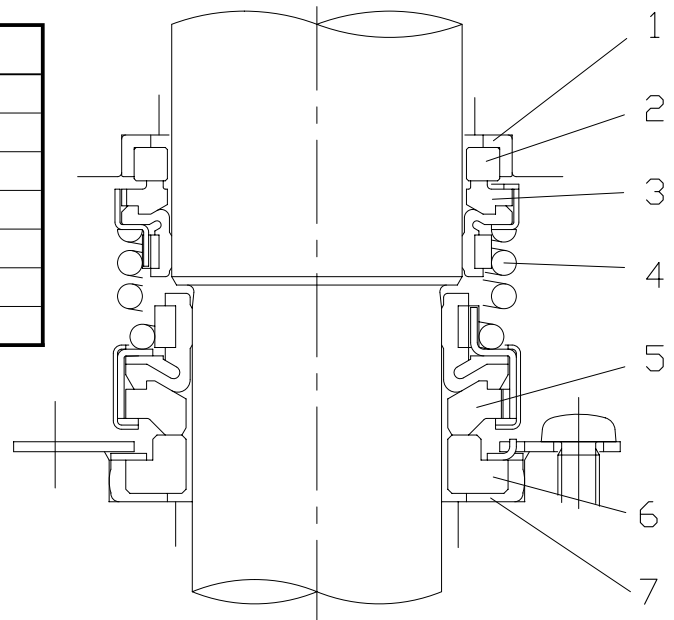
|                        |                                  |
|------------------------|----------------------------------|
| Model                  | Klixon 9700K-46-215              |
| Type of contact        | b (Normally-Closed, Acting-Open) |
| Acting temperature     | 150°C (+/-5)                     |
| Re-setting temperature | 100 °C                           |
| Contact rating         | DC24V-18A                        |
|                        | DC230V-13A                       |

## TECHNICAL DATA

50 Hz  
REV.A

|          | kW  | Mechanical Seal |        |                |      |                                                        | Bearings   |            |
|----------|-----|-----------------|--------|----------------|------|--------------------------------------------------------|------------|------------|
|          |     | Type            |        | Lubrication    |      |                                                        | Lower side | Upper side |
|          |     | Diameter [mm]   | Model  | Capacity [cm³] |      | Type                                                   |            |            |
|          |     |                 |        | DML            | DMLV |                                                        |            |            |
| DML-DMLV | 2,2 | 30              | EAN-30 | 1100           |      | Turbine Oil<br>SAE 10W or SAE 20W<br>(Turbine Oil #32) | 5307ZZ     | 6205ZZ     |
|          | 3,7 |                 |        |                |      |                                                        |            |            |
|          | 5,5 | 40              | EAN-40 | 1600           | 1780 |                                                        | 5309ZZ     | 6306ZZ     |
|          | 7,5 |                 |        |                |      |                                                        |            |            |
|          | 11  | 45              | EAN-45 | 2900           | 3380 |                                                        | 5310ZZ     | 6308ZZ     |
|          | 15  |                 |        |                |      |                                                        |            |            |
|          | 22  |                 |        | 3000           | 3550 |                                                        | 5312ZZ     | 6309ZZ     |

| No. | Part                              | Material            |
|-----|-----------------------------------|---------------------|
| 1   | Ruber part (motor side)           | NBR                 |
| 2   | Stationary seal ring (motor side) | Ceramic             |
| 3   | Rotary seal ring (motor side)     | Carbon Graphite     |
| 4   | Spring                            | EN 1.4301 (AISI304) |
| 5   | Rotary seal ring (pump side)      | Silicon Carbide     |
| 6   | Stationary seal ring (pump side)  | Silicon Carbide     |
| 7   | Rubber part (pump side)           | NBR                 |



|          | kW  | Starting method | Length of cable | Cable material | Number & size of conductor       |                       |                              |                       |
|----------|-----|-----------------|-----------------|----------------|----------------------------------|-----------------------|------------------------------|-----------------------|
|          |     |                 |                 |                | Power Cable                      |                       | Protector Cable              |                       |
|          |     |                 |                 |                | Cross section conductor area     | Overall diameter [mm] | Cross section conductor area | Overall diameter [mm] |
| DML-DMLV | 2,2 | DOL             | 10m             | H07RN-F        | 4x1,5 mm <sup>2</sup>            | 11,2                  | -                            | -                     |
|          | 3,7 | Y-Δ             | 10m             | H07RN-F        | 4x1,5 mm <sup>2</sup> x 2 cables | 11,2                  | 2x1 mm <sup>2</sup>          | 8,7                   |
|          | 5,5 | Y-Δ             | 10m             | H07RN-F        | 4x1,5 mm <sup>2</sup> x 2 cables | 11,2                  | 2x1 mm <sup>2</sup>          | 8,7                   |
|          | 7,5 | Y-Δ             | 10m             | H07RN-F        | 4x1,5 mm <sup>2</sup> x 2 cables | 11,2                  | 2x1 mm <sup>2</sup>          | 8,7                   |
|          | 11  | Y-Δ             | 10m             | H07RN-F        | 4x4 mm <sup>2</sup> x 2 cables   | 15,4                  | 2x1 mm <sup>2</sup>          | 8,7                   |
|          | 15  | Y-Δ             | 10m             | H07RN-F        | 4x4 mm <sup>2</sup> x 2 cables   | 15,4                  | 2x1 mm <sup>2</sup>          | 8,7                   |
|          | 22  | Y-Δ             | 10m             | H07RN-F        | 4x6 mm <sup>2</sup> x 2 cables   | 18,1                  | 2x1 mm <sup>2</sup>          | 8,7                   |