DWK pumps

0.75 - 90 kW, 50 Hz



GRUNDFOS

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1. Product introduction

This data booklet describes the Grundfos DWK dewatering pumps.



TM069174

DWK pumps for free-standing installation

The pumps are designed with enclosed or semi-open impeller, for use in a wide range of applications in industrial and construction building sites.

The pumps are made of resistant materials, such as cast iron and high-chrome stainless steel. These materials ensure proper operation.

The pumps are fitted with 2-pole motors from 0.75 kW to 90.0 kW.

The free passage in the pumps is 10-20 mm. For DWK.H pumps, the free passage is 7 mm.

The pumps are available for free-standing submerged installation.

1.1 Application

The pumps are ideal for transferring the following liquids:

- drainage water
- surface water
- groundwater
- water containing abrasives.

The pumps are used in mining sites, building services, basement garages, construction sites, low lying rainwater catchment areas, processing industry.

1.2 Design features

DWK pumps are designed with double mechanical shaft seals. The shaft seals are in the oil chamber.

The pumps are only available with inlet strainer for free-standing installation.

Optionally, the DWK.H and DWK.E can be ordered for auto-coupling installation.

The pumps can be installed as single pump or be part of multi-pump installation

If required, the impeller diameter can be reduced to match a specific duty point.

Outlet connection

- Standard material versions have a DIN flange connection as standard.
- R high-grade material versions have hose coupling as standard.

Other outlet connections, or a version without outlet connection, are available on request.

The following sections give further constructional details on the pump models DWK.O, DWK.E and DWK.H.

1.2.1 DWK.O

- Watertight cable entry preventing water from penetrating into the motor.
- No extra cable is required for sensors.
- Thermal protection through a PTO located in the coil head, requires outside control through signal wires of the power cable, except for the following models:
  - DWK.O.x.x.075.x.x.R
  - DWK.O.x.x.15.x.x.R
  - DWK.O.x.x.22.x.x.R
  - DWK.O.x.x.37.x.0D.R.
- The above versions are equipped with a Klixon MV circuit breaker built in the motor compartment. It has an automatic reset and does not require outside control.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except for the following models:
  - DWK.O.x.x.075.x.x
  - DWK.O.x.x.15.x.x
  - DWK.O.x.x.22.x.x
  - DWK.O.x.x.37.x.x.
- Top outlet for compact and narrow design.
- Cooling jacket contributes to motor cooling by keeping water level around the motor.
- In R-versions, high-chrome stainless steel impeller and spheroidal graphite iron inlet cover for increased wear resistance, if the pumped liquid contains abrasives. Stainless steel strainer for increased corrosion resistance.
- Double mechanical shaft seal (SiC-SiC) for heavy duty conditions.
- High-efficiency motor for high and stable performance and low operating costs.

1.2.2 DWK.E

- Triple cable entry system, including a rubber ring and a rubber diaphragm. To ensure waterproof operation, the rubber diaphragm is filled with epoxy.
- No extra cable is required for sensors, except for the following models:
  - DWK.E.x.x.75.x.x.x
  - DWK.E.x.x.90.x.x.x.
- Thermal protection through a Klixon 17AM located in the coil head, requires outside control through signal wires of the power cable.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection.
- Top outlet for compact and narrow design.
- Cooling jacket contributes to motor cooling by keeping water level at the top of the inlet strainer.
- In R-versions, high-chrome stainless steel impeller and spheroidal graphite iron inlet cover for increased wear resistance, if the pumped liquid contains abrasives. Stainless steel strainer for increased corrosion resistance.
- Triple sealing system consisting of a double mechanical shaft seal (SiC-SiC) in the oil chamber and an extra lip seal to withstand heavy-duty conditions.
- High-efficiency motor for high and stable performance and low operating costs.
- Auto-coupling installation is only available for DWK.E pumps up to and including 55 kW. Pump variants for auto-coupling installation has the pump outlets placed on the side of the pumps.

1.2.3 DWK.H

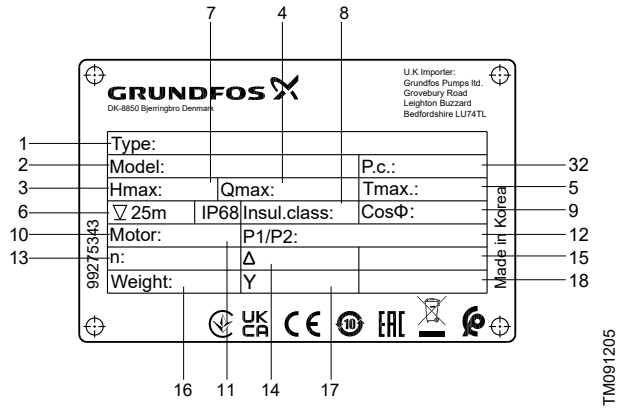
- Triple cable entry system, including a rubber ring and a rubber diaphragm. To ensure waterproof operation, the rubber diaphragm is filled with epoxy.
- No extra cable is required for sensors, except for the following models:
  - DWK.H.x.x.750.x.x.x
  - DWK.H.x.x.900.x.x.x.
- Thermal protection through a Klixon 17AM located in the coil head, requires outside control through signal wires of the power cable.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection.
- Cooling jacket contributes to motor cooling by keeping the water level at the top of the inlet strainer.
- Top outlet for compact and narrow design.
- Two stage cast-iron impeller for high and stable performance.
- Double mechanical shaft seal (SiC-SiC) for heavy-duty conditions.
- High-efficiency motor for high and stable performance and low operating costs.
- Auto-coupling installation available for DWK.H pumps up to and including 55 kW. Pump variants for auto-coupling installation has the pump outlets placed on the side of the pumps.

2. Identification

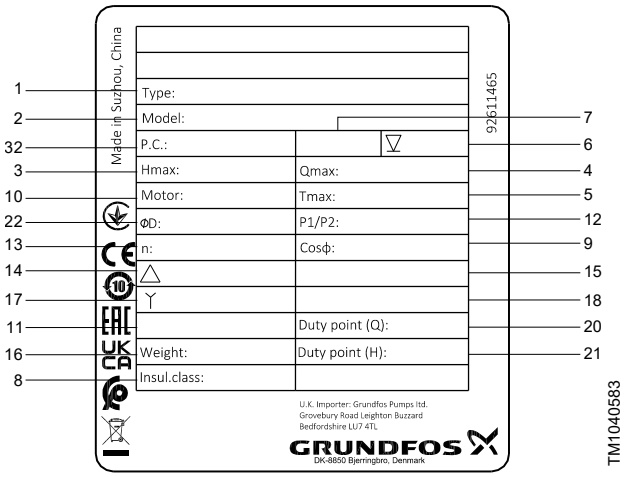
2.1 Nameplate

Fix the extra nameplate supplied with the product at the installation site or production location, so the data can be checked when necessary. Make sure that the nameplate is visible.

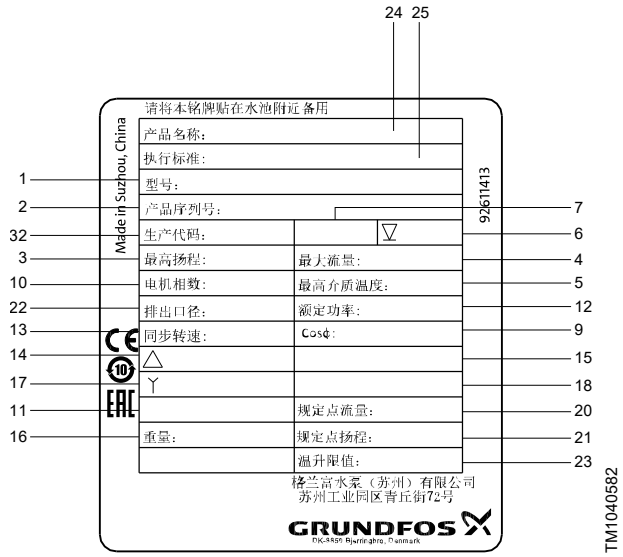
The nameplate is fitted to the top cover of the pump.



Nameplate on product



Nameplate in packaging



Nameplate for products in China

Pos.	Description
1	Type designation
2	Material No. + Serial No.
3	Maximum head [m]
4	Maximum flow [l/s]
5	Maximum liquid temperature [°C]
6	Maximum installation depth [m]
7	Enclosure class
8	Insulation class/temperature class
9	Power factor
10	Number of phases
11	Frequency [Hz]
12	Motor input and output power P1/P2 [kW]
13	Speed [rpm]
14	Rated voltage [V] (delta connection)
15	Rated current [A] (delta connection)
16	Weight [kg]
17	Rated voltage [V] (star connection)
18	Rated current [A] (star connection)
20	Duty point Q [m^3/h]
21	Duty point H [m]
22	Size of flange
23	Temperature rise [K]
24	Product type
25	Company standard
32	Production code (year and week)

2.2 Type key

Note: Pumps are not available in all variants.

2.2.1 DWK type key

The pump can be identified by the type designation stated on the nameplate.

Example: DWK.H.7.150.550.5.1D.A

Code	Description	Explanation
DWK	Dewatering pump	Pump type
O	Semi-open impeller	Impeller type
E	Enclosed impeller	
H	High-head, double impeller	
7	Maximum solids size [mm]	Strainer hole size
150	Nominal diameter of pump outlet [mm]	Pump outlet
550	Output power P2 550= 55 kW[1)]	Power [kW]
[ ]	Standard	Equipment
S	Sensor[2)]	
5	50 Hz	Frequency [Hz]
0D	380-415 V, DOL	Voltage and starting method [3)]
1D	380-415 V, Y/D	
[ ]	Flange coupling	Outlet type
R	Hose coupling	
A	Auto coupling [4)]	
1	Without outlet [5)]	
[ ]	Standard [6)]	Pump version
H	Hi-chrome impeller	
S	Stainless steel impeller	
Z	Custom-built variant	Customization

[1)] Exception: Code 075=0.75kW

[2)] Only for 0.75 to 3.7 kW, except for 3.0 kW

[3)] Exception: variant voltage ex) 46=460V

[4)] For DWK.H.A pumps with auto-coupling, from 11 kW to 55kW & for DWK.E.A pumps with auto-coupling, from 22 kW to 55kW.

[5)] For DWK.1 pumps up to 30kW

[6)] Hi-chrome impeller is standard for hose coupling (R version of outlet type)

3. Product selection

3.1 Ordering a pump

Prior to ordering a pump, consider the following:

- pump type
- custom-built variant (option)
- accessories
- controller
- installation type
- outlet connection type.
  Note: DWK.H has a flanged outlet as standard. As standard, DWK is equipped with a DIN flange outlet connection and DWK.R version is equipped with a hose outlet connection.

Once the pump type is selected, the most suitable pump can be identified. See sections Product Range and Type key. The list below shows a detailed description of an ordered product:

Pump	Product number
DWK.O.6.50.075.5.0D	96922639

- Pump as specified in the type key
- 10 m cable.
- Paint: NCS S9000-N (black), gloss code 35, thickness 100 µm.
- Tested according to ISO 9906:2012, grade 3B.

Note: Product specific data can be found in Grundfos Product Center at www.grundfos.com.

3.1.1 Custom-built variants

The pumps can be customized to meet individual requirements. Several pump features and options are available for customization, such as voltage, various cable lengths and special materials.

For an overview, see section Variants. For requirements or designs not mentioned in the table, contact Grundfos.

3.1.2 Accessories

Depending on the installation type, accessories may be required. See section Accessories, for selection of the correct accessories.

Note: Accessories are not fitted.

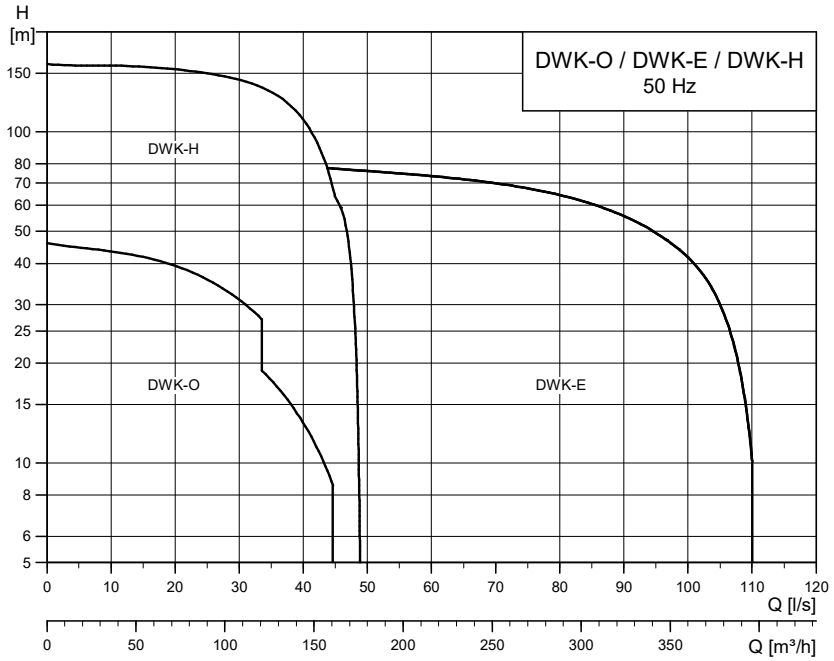
3.1.3 Monitoring units and controllers

The following monitoring units and controllers are available:

- GU01 (control system)
- GU02 (control system)
- LC 231 level controller with integrated motor protection
- LC 241 level controller a cabinet solution allowing setup customisation.

4. Performance range

4.1 Performance ranges



TM042949

Performance range, DWK

Pump type	Pump name
DWK.O	DWK.O.6.50.075
	DWK.O.6.50.15
	DWK.O.6.50.22
	DWK.O.6.80.15
	DWK.O.6.80.22
	DWK.O.10.80.37
	DWK.O.13.80.55
	DWK.O.10.100.37
	DWK.O.13.100.55
	DWK.O.13.100.75
	DWK.O.13.100.110
	DWK.O.13.100.150
	DWK.O.13.150.75
	DWK.O.13.150.110
	DWK.O.13.150.150

Pump type	Pump name
DWK.E	DWK.E.10.100.220
	DWK.E.10.150.220
	DWK.E.10.150.300
	DWK.E.10.150.370
	DWK.E.10.150.450
	DWK.E.10.150.550
	DWK.E.10.200.300
	DWK.E.10.200.370
	DWK.E.10.200.450
	DWK.E.10.200.550
	DWK.E.10.200.750
	DWK.E.10.200.900

Pump type	Pump name
DWK.H	DWK.H.7.80.110
	DWK.H.7.80.150
	DWK.H.7.100.220
	DWK.H.7.100.300
	DWK.H.7.100.370
	DWK.H.7.150.370
	DWK.H.7.150.450
	DWK.H.7.150.550
	DWK.H.7.150.750
	DWK.H.7.150.900

5. Product range

5.1 DWK.O

Pump type	Voltage	Starting method	Thermal protection	Impeller type	Outlet	Product number
DWK.O.6.50.075.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922639
DWK.O.6.50.075.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922719
DWK.O.6.50.15.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922641
DWK.O.6.50.15.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922721
DWK.O.6.50.22.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922645
DWK.O.6.50.22.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922725
DWK.O.6.80.15.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922643
DWK.O.6.80.15.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922723
DWK.O.6.80.22.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922647
DWK.O.6.80.22.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922727
DWK.O.10.100.37.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922651
DWK.O.10.100.37.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922731
DWK.O.10.80.37.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922649
DWK.O.10.80.37.5.0D.R	3 × 380-415 V Y	DOL	Klixon MW	Semi-open	Hose	96922729
DWK.O.13.80.55.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922653
DWK.O.13.80.55.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922733
DWK.O.13.80.55.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926046
DWK.O.13.80.55.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926078
DWK.O.13.100.55.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922655
DWK.O.13.100.55.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922735
DWK.O.13.100.55.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926048
DWK.O.13.100.55.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926080
DWK.O.13.100.75.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922657
DWK.O.13.100.75.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922737
DWK.O.13.100.75.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926050
DWK.O.13.100.75.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926082
DWK.O.13.100.110.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922661
DWK.O.13.100.110.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922741
DWK.O.13.100.110.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926054
DWK.O.13.100.110.5.1D.R	3 × 380-415 V D	DOL/ Y/D	PTO	Semi-open	Hose	96926086
DWK.O.13.100.150.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922665
DWK.O.13.100.150.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922745
DWK.O.13.100.150.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926058
DWK.O.13.100.150.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926090
DWK.O.13.150.75.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922659
DWK.O.13.150.75.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922739
DWK.O.13.150.75.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926052
DWK.O.13.150.75.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926084
DWK.O.13.150.110.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922663
DWK.O.13.150.110.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922743
DWK.O.13.150.110.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926056
DWK.O.13.150.110.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926088
DWK.O.13.150.150.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	Flange	96922666
DWK.O.13.150.150.5.0D.R	3 × 380-415 V Y	DOL	PTO	Semi-open	Hose	96922746
DWK.O.13.150.150.5.1D	3 × 380-415 V D	Y/D	PTO	Semi-open	Flange	96926060
DWK.O.13.150.150.5.1D.R	3 × 380-415 V D	Y/D	PTO	Semi-open	Hose	96926092

5.2 DWK.E

Pump type	Voltage	Starting method	Thermal protection	Impeller type	Outlet	Product number
DWK.E.10.100.220.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922667
DWK.E.10.100.220.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922747
DWK.E.10.100.220.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340744
DWK.E.10.150.220.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922668
DWK.E.10.150.220.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922748
DWK.E.10.150.220.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340745
DWK.E.10.150.300.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922669
DWK.E.10.150.300.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922749
DWK.E.10.150.300.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340746
DWK.E.10.150.370.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922671
DWK.E.10.150.370.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922751
DWK.E.10.150.370.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340747
DWK.E.10.150.450.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922673
DWK.E.10.150.450.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922753
DWK.E.10.150.450.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340748
DWK.E.10.150.550.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922675
DWK.E.10.150.550.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922755
DWK.E.10.150.550.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340749
DWK.E.10.200.300.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922670
DWK.E.10.200.300.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922750
DWK.E.10.200.300.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340760
DWK.E.10.200.370.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922672
DWK.E.10.200.370.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922752
DWK.E.10.200.370.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340761
DWK.E.10.200.450.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922674
DWK.E.10.200.450.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922754
DWK.E.10.200.450.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340762
DWK.E.10.200.550.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922676
DWK.E.10.200.550.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922756
DWK.E.10.200.550.5.1D.A	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Auto-coupling	93340763
DWK.E.10.200.750.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922677
DWK.E.10.200.750.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922757
DWK.E.10.200.900.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Flange	96922678
DWK.E.10.200.900.5.1D.R	3 × 380-415 V D	Y/D	Klixon 17AM	Enclosed	Hose	96922758

5.3 DWK.H

Pump type	Voltage	Starting method	Thermal protection	Impeller type	Outlet	Product number
DWK.H.7.80.110.5.0D	3 x 380-415 V D	DOL	Klixon 17AM	Enclosed - 2 stage	Flange	99509662
DWK.H.7.80.110.5.0D.A	3 x 380-415 V D	DOL	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172261
DWK.H.7.80.150.5.0D	3 x 380-415 V D	DOL	Klixon 17AM	Enclosed - 2 stage	Flange	99509674
DWK.H.7.80.150.5.0D.A	3 x 380-415 V D	DOL	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172266
DWK.H.7.100.220.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387154
DWK.H.7.100.220.5.1D.A	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172271
DWK.H.7.100.300.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387156
DWK.H.7.100.300.5.1D.A	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172276
DWK.H.7.100.370.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387158
DWK.H.7.150.370.5.1D.A	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172281
DWK.H.7.150.450.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387160
DWK.H.7.150.450.5.1D.A	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172286
DWK.H.7.150.550.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387162
DWK.H.7.150.550.5.1D.A	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Auto-coupling	93172291
DWK.H.7.150.750.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387164
DWK.H.7.150.900.5.1D	3 x 380-415 V Y	Y/D	Klixon 17AM	Enclosed - 2 stage	Flange	99387166

6. Variants

6.1 List of variants

Note: Not all variants are available for all types of pumps

Motor		
Various cable sizes	Cable length depends on motor size and main supply.	10 m
		15 m
		20 m
		25 m
		30 m
Special motor	Insulation class H (180 °C)	Contact Grundfos
	Temperature rise class B (80 °C)	Contact Grundfos
Special voltage	220-240 V and other special voltage	Contact Grundfos
Motor protection		
Motor winding (above 22 kW)	1 × Pt100	Contact Grundfos
Seal sensor	1 × Electrode type	Contact Grundfos
Bearing sensor (above 22 kW)	1 × Pt100 in lower bearing	Contact Grundfos
Material		
Impeller	Stainless steel 304, 316, 316L / Ductile cast iron A536-65-45-12 / Hi-Cr	Contact Grundfos
Inlet cover and pump casing (above 22 kW)	Stainless steel 304, 316, 316L	Contact Grundfos
Coating (above 22 kW)	According to EN 12944 IM2	Contact Grundfos
Outlet		
Flanges	DIN, JIS, ANSI	Contact Grundfos
Hose		Contact Grundfos
Threaded	Storz	Contact Grundfos
Auto-coupling		
Auto-coupling installation kit, guide rail holders	Up to 55kW (DWK.E and DWK.H)	Contact Grundfos
Tests		
Test at specified duty point on standard impeller curve		
Additional test of entire QH curve		Contact Grundfos
Different test standard	ISO 9906:2012 grade 2B	Contact Grundfos
Witness test		Contact Grundfos
Other variants		Contact Grundfos

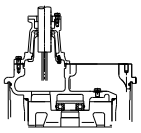
Note: DWK.H pumps are only available with Flange and ADC installation types.

7. Design

7.1 Outlet connections

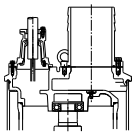
DWK pumps can be ordered with the following outlet connections:

- flange connection
- threaded outlet connection for Storz coupling, according to ISO 228
- hose connection
- without outlet connection. Please order a discharge connection separately.
- auto-coupling connection.



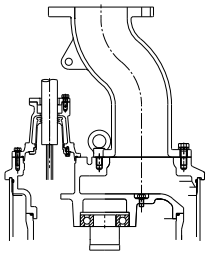
Without connection

TM044737



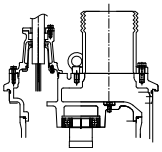
Hose connection

TM044736



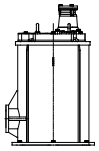
TM081468

Flange connection



Threaded connection

TM071492

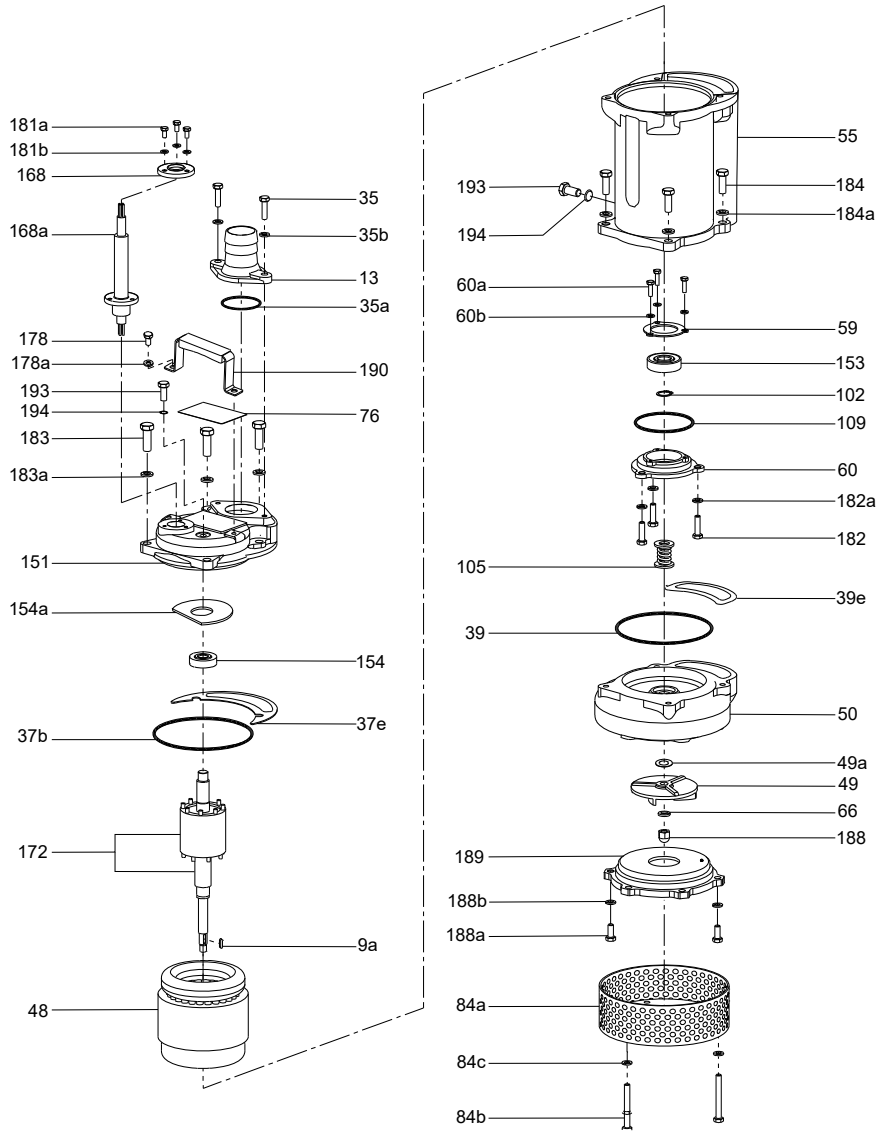


Auto-coupling connection

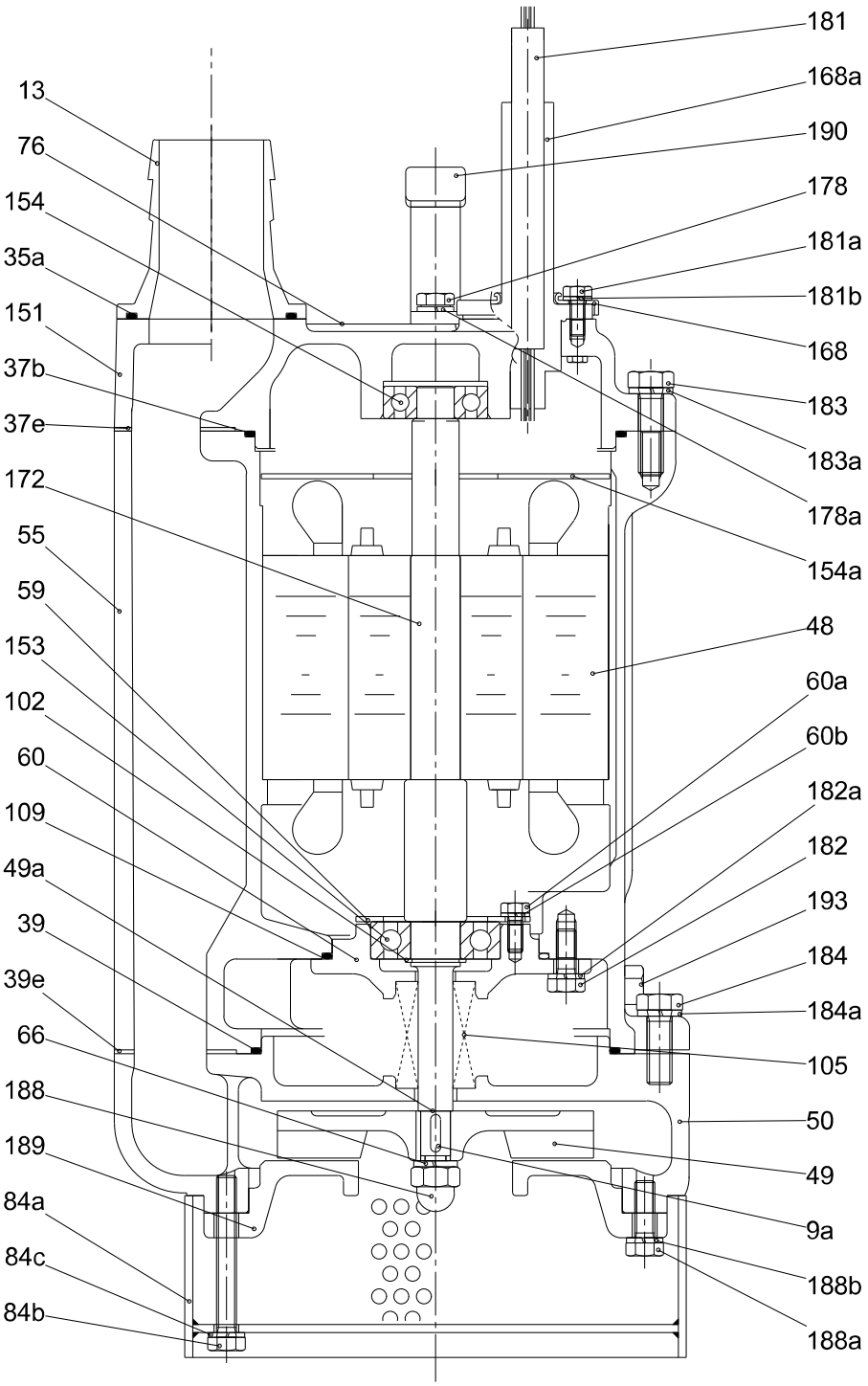
TM087356

7.2 Exploded views and sectional drawings

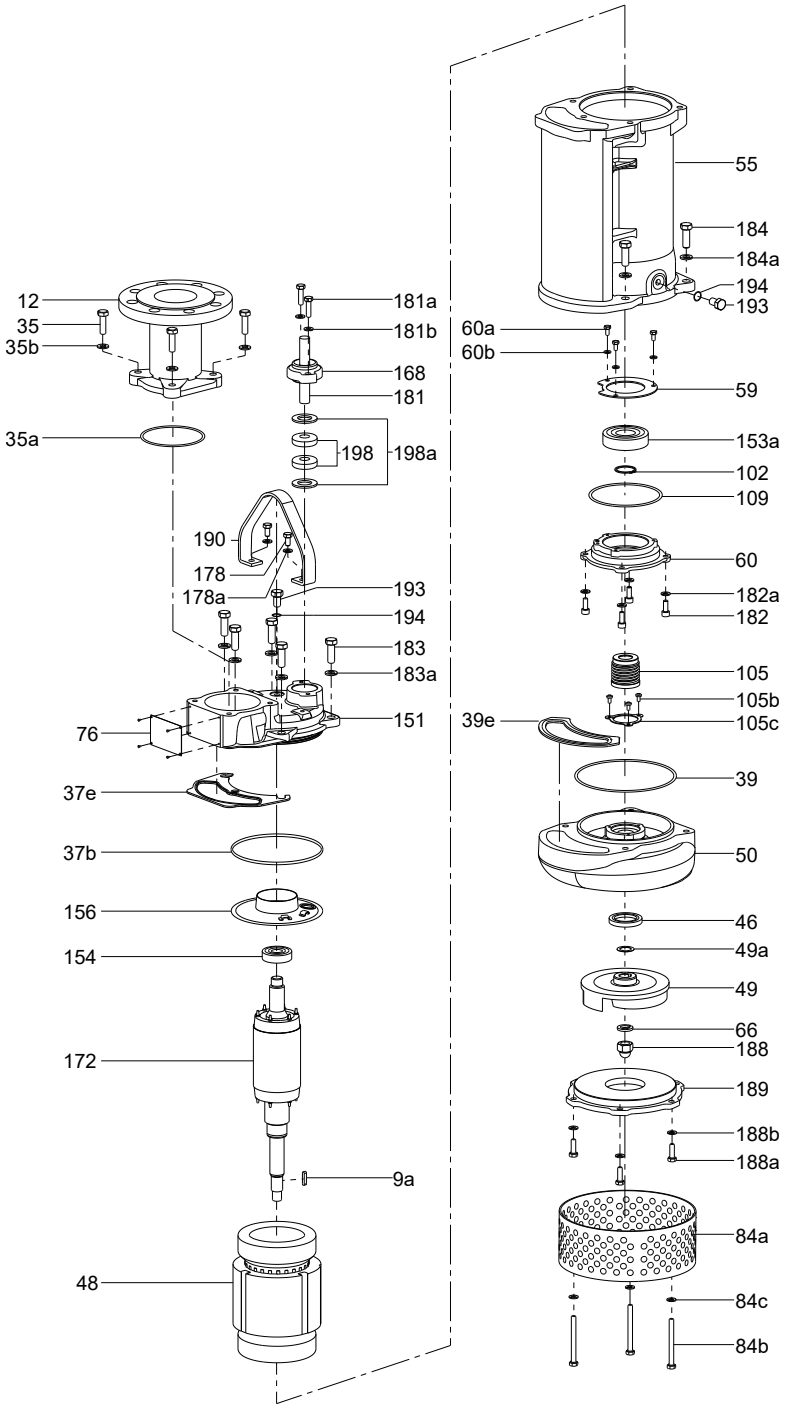
7.2.1 DWK.O



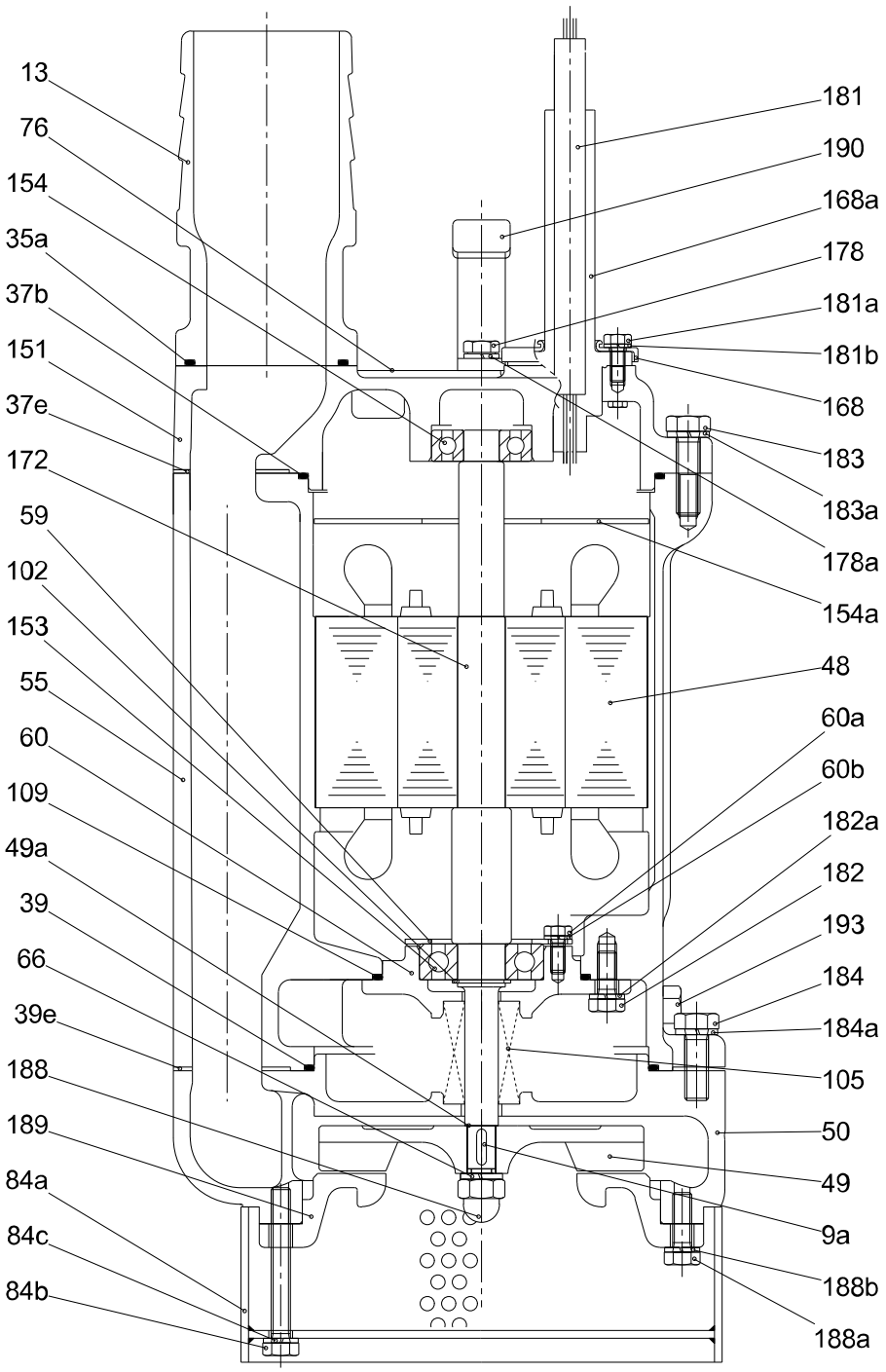
Exploded view, DWK.O.6.50.075, DWK.O.6.50.15 and DWK.O.6.50.22



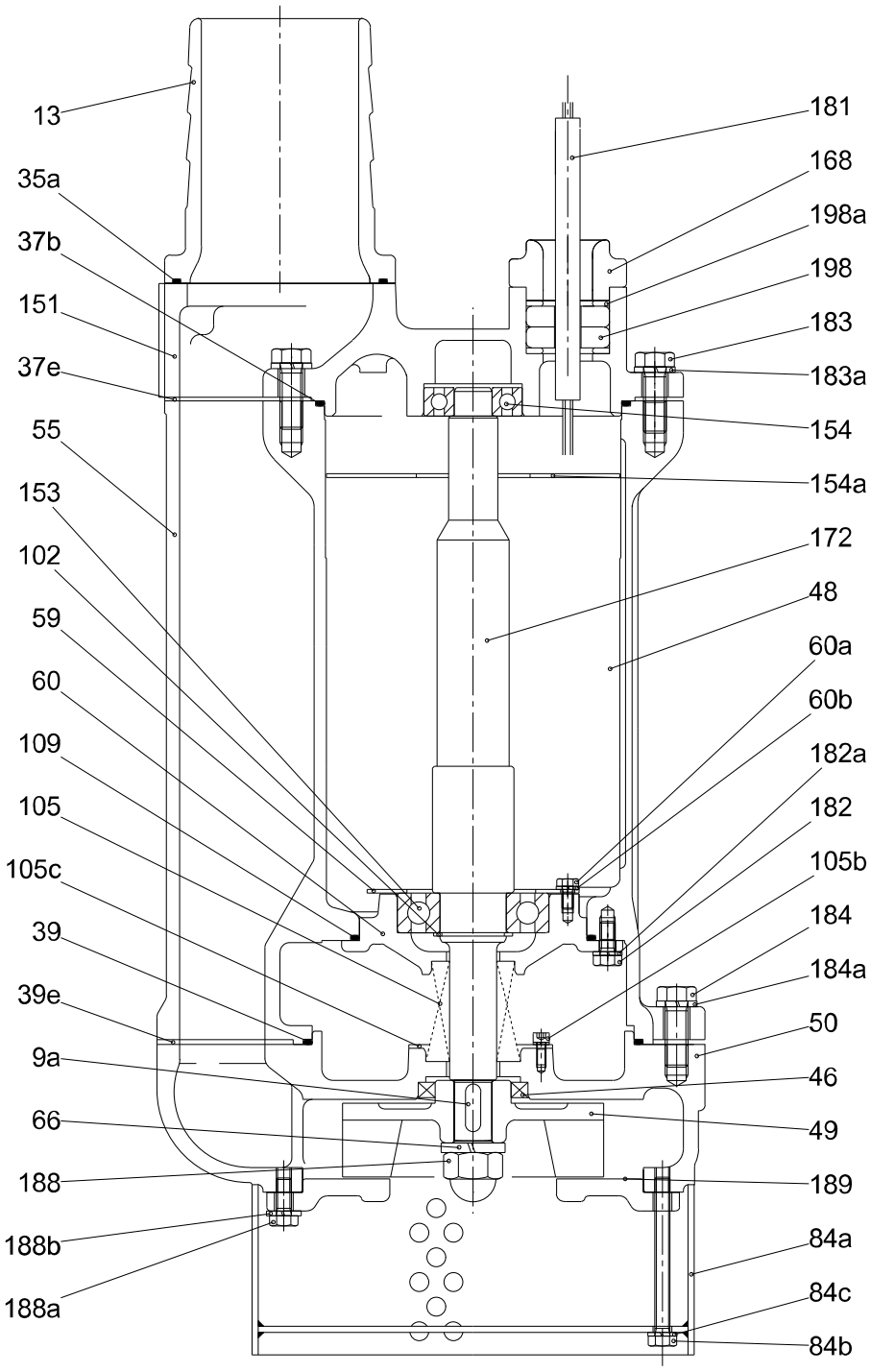
Sectional drawing, DWK.O.6.50.075, DWK.O.6.50.15 and DWK.O.6.50.22



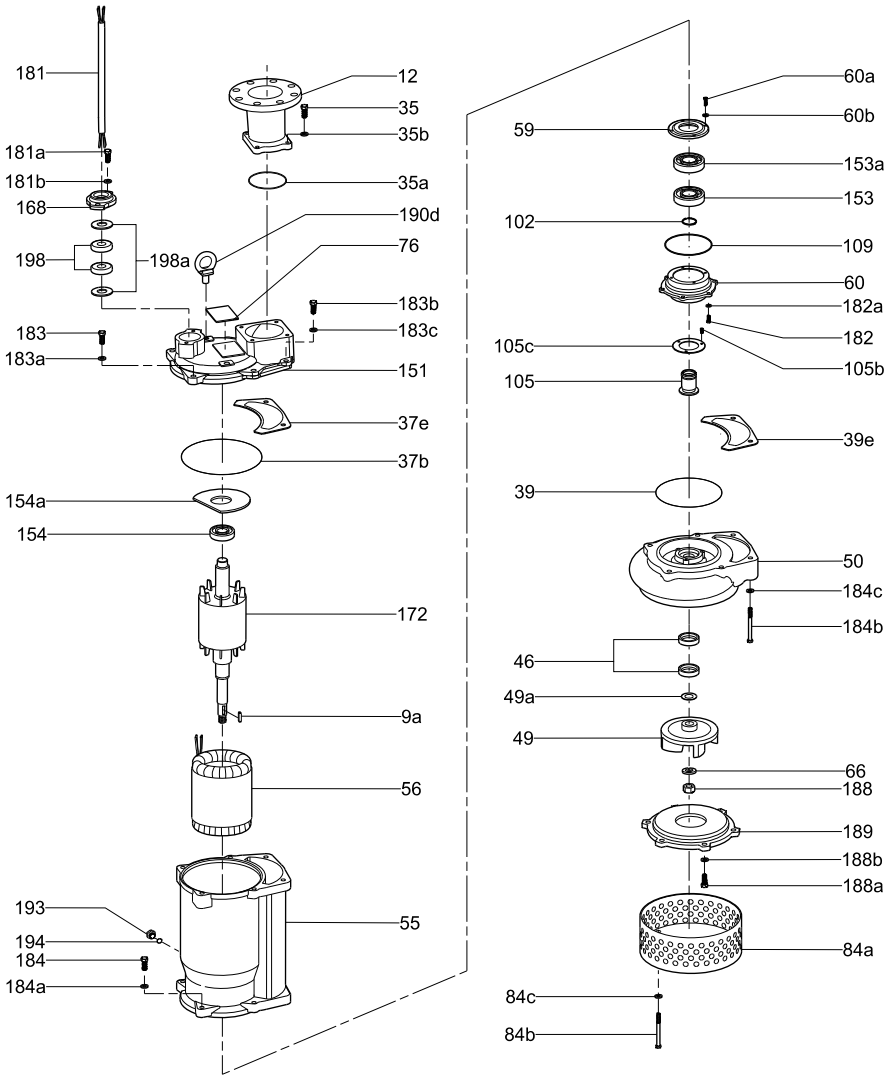
Exploded view, DWK.O.6.80.15, DWK.O.6.80.22, DWK.O.10.80.37 and DWK.O.10.100.37



Sectional drawing, DWK.O.6.80.15 and DWK.O.6.80.22

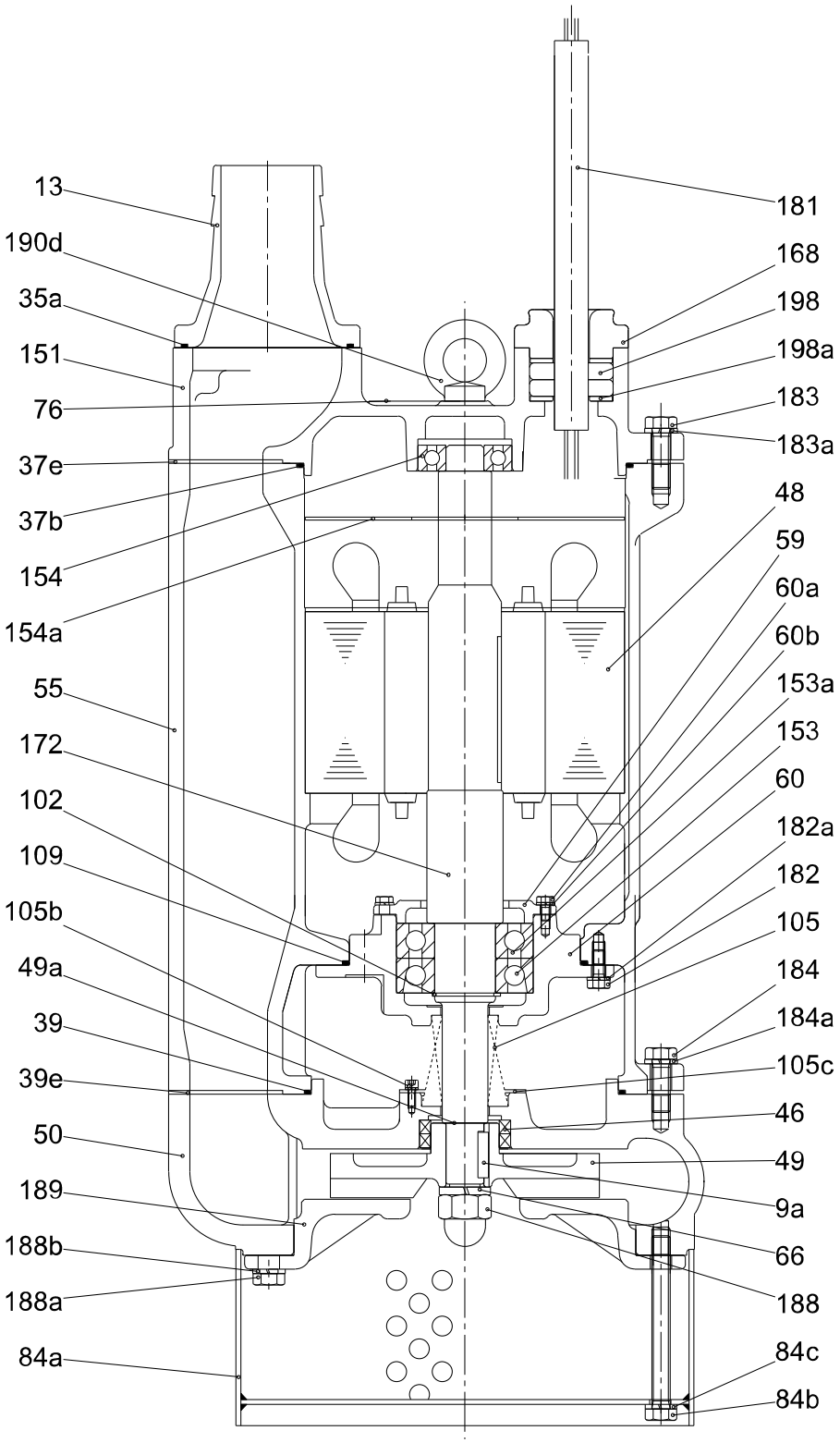


Sectional drawing, DWK.O.10.80.37 and DWK.O.10.100.37

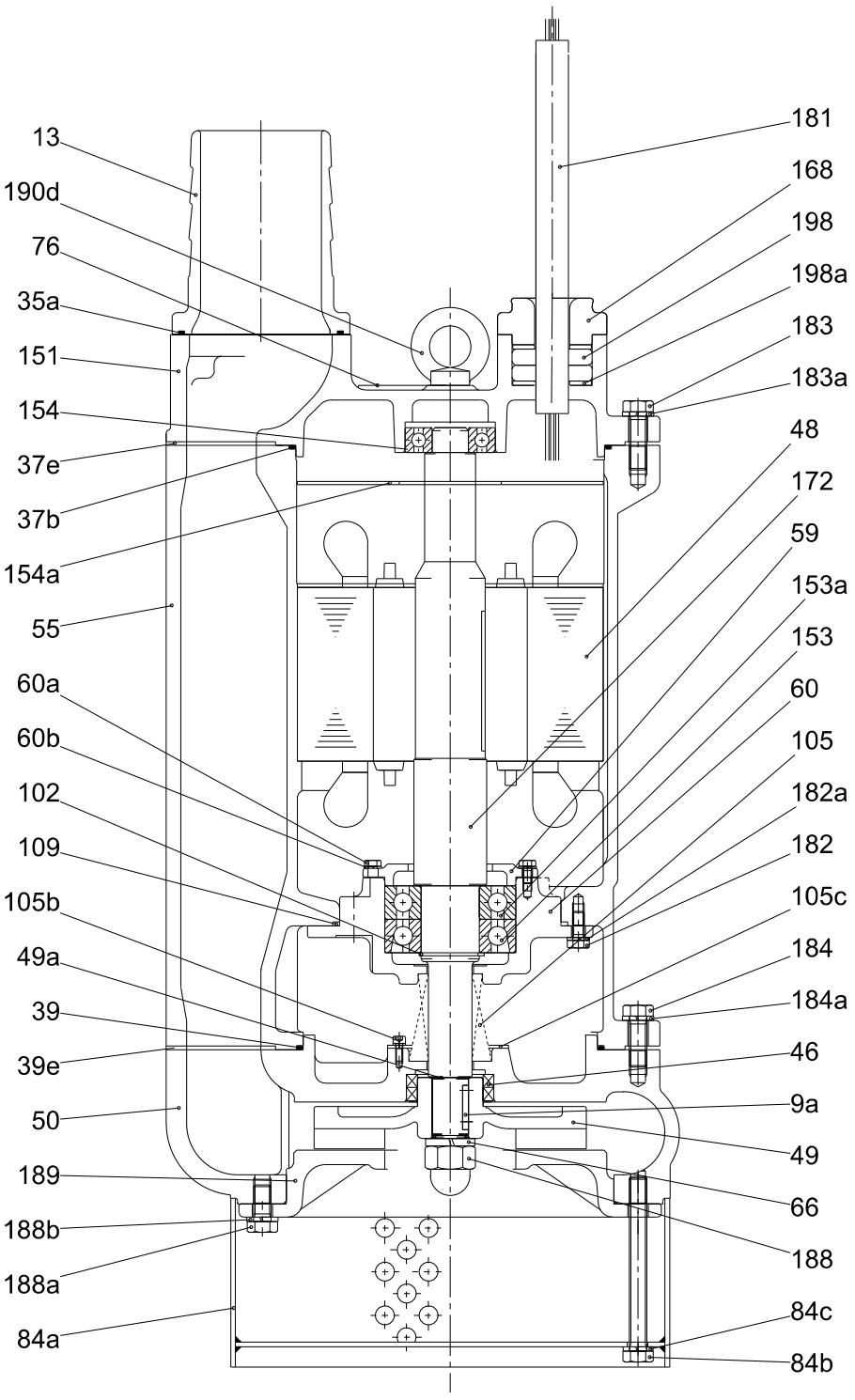


TM044577

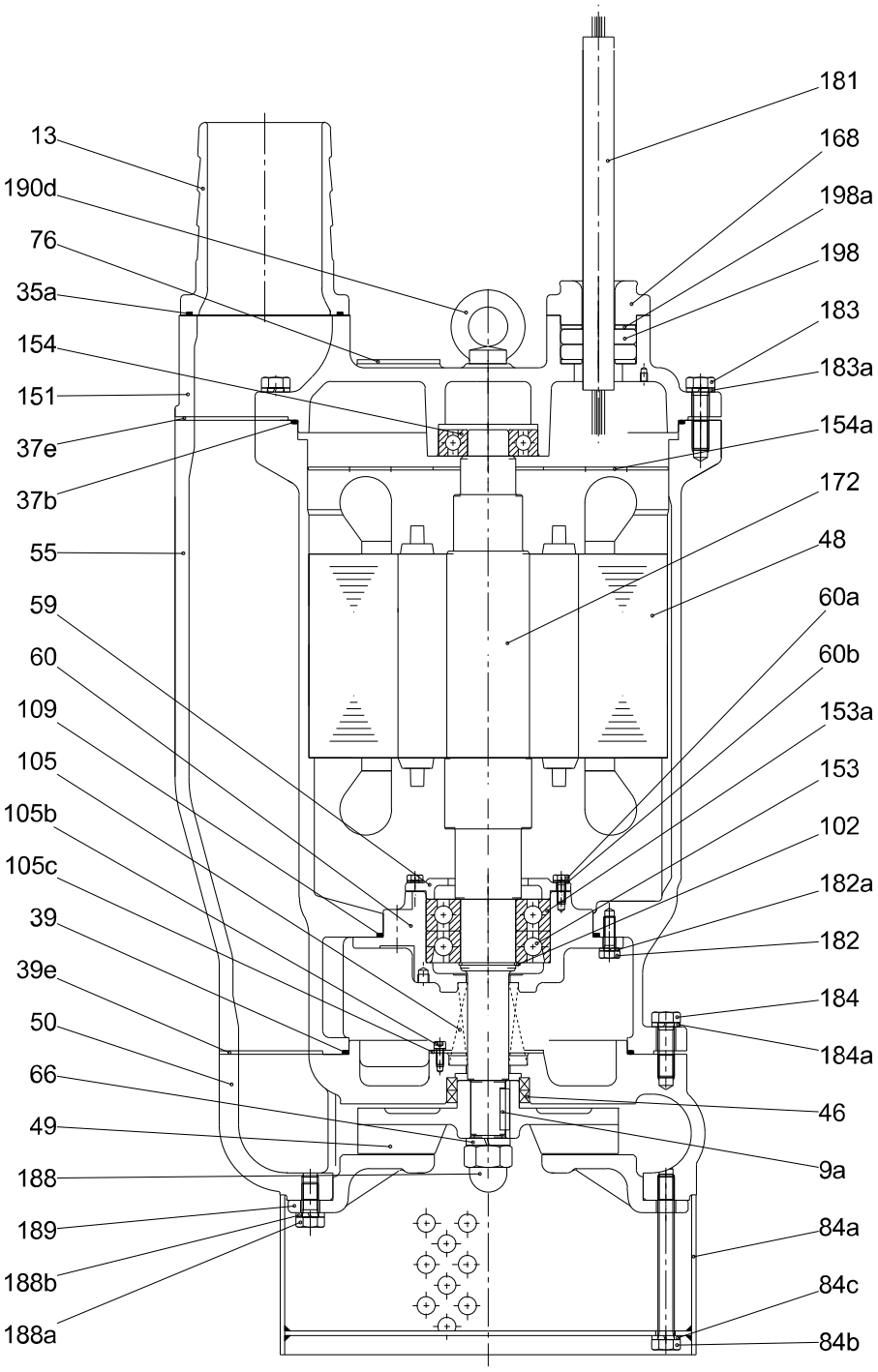
Exploded view, DWK.O.13.80.55, DWK.O.13.100.55, DWK.O.13.100.75, DWK.O.13.150.75, DWK.O.13.100.110, DWK.O.13.150.110, DWK.O.13.100.150 and DWK.O.13.150.150



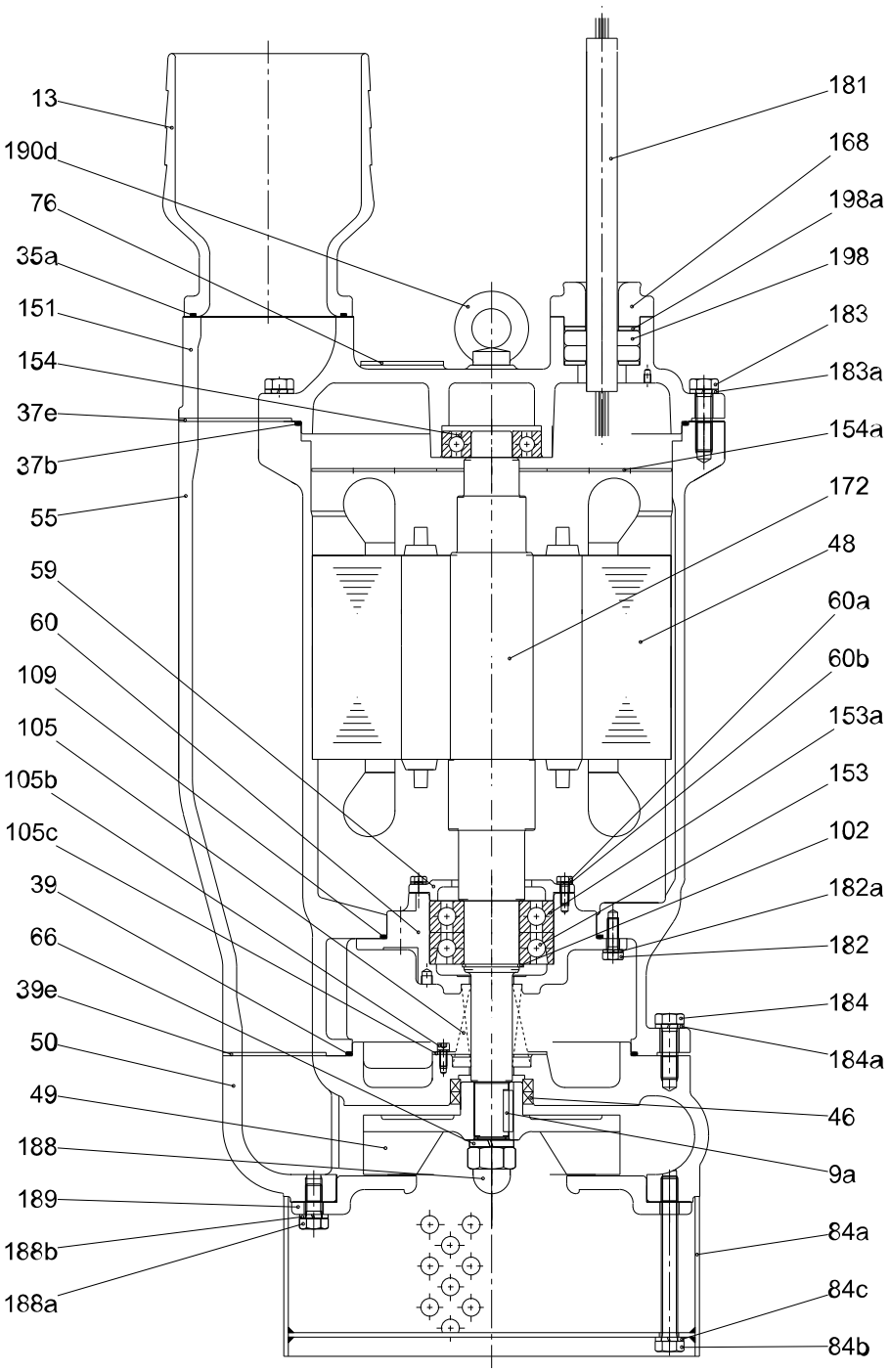
Sectional drawing, DWK.O.13.80.55 and DWK.O.13.100.55



Sectional drawing, DWK.O.13.100.75 and DWK.O.150.75

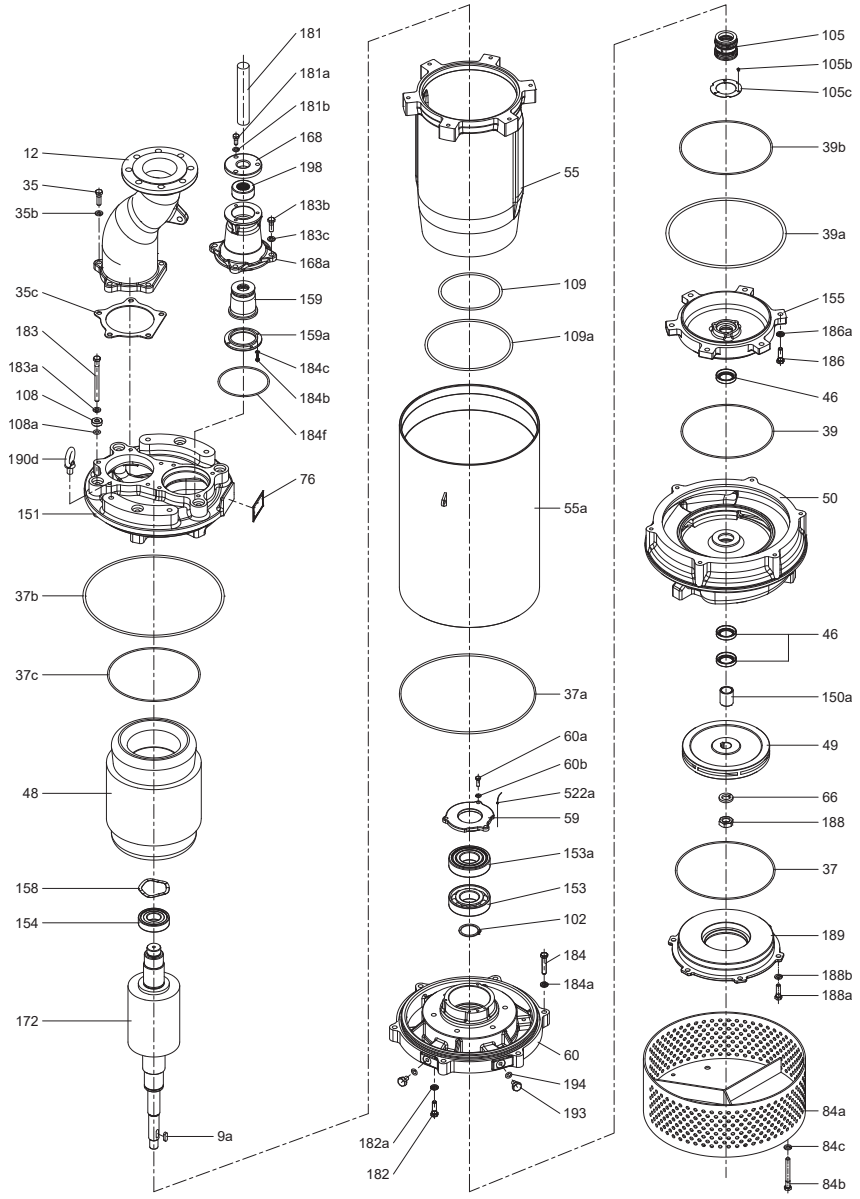


Sectional drawing, DWK.O.13.100.110 and DWK.O.13.100.150

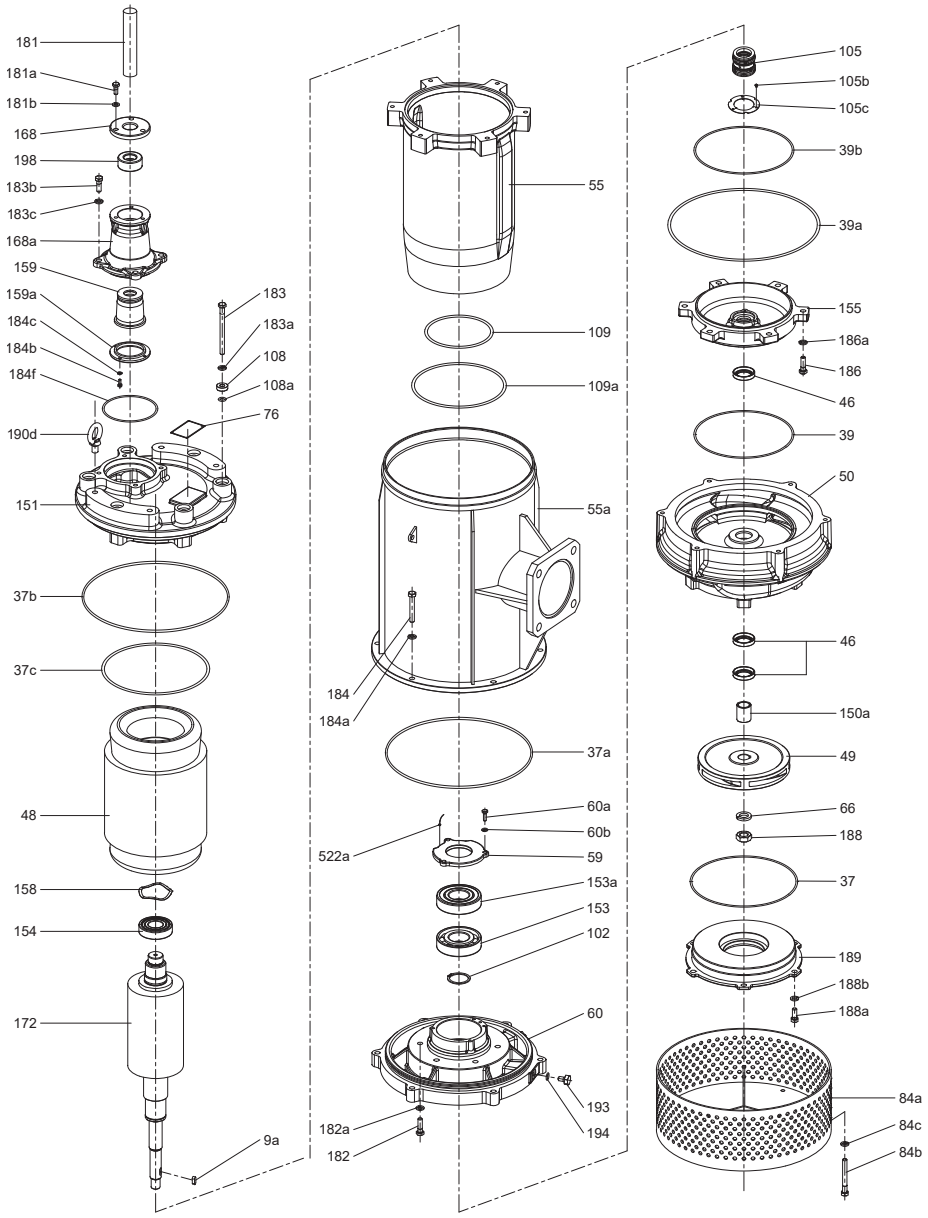


Sectional drawing, DWK.O.13.150.110 and DWK.O.13.150.150

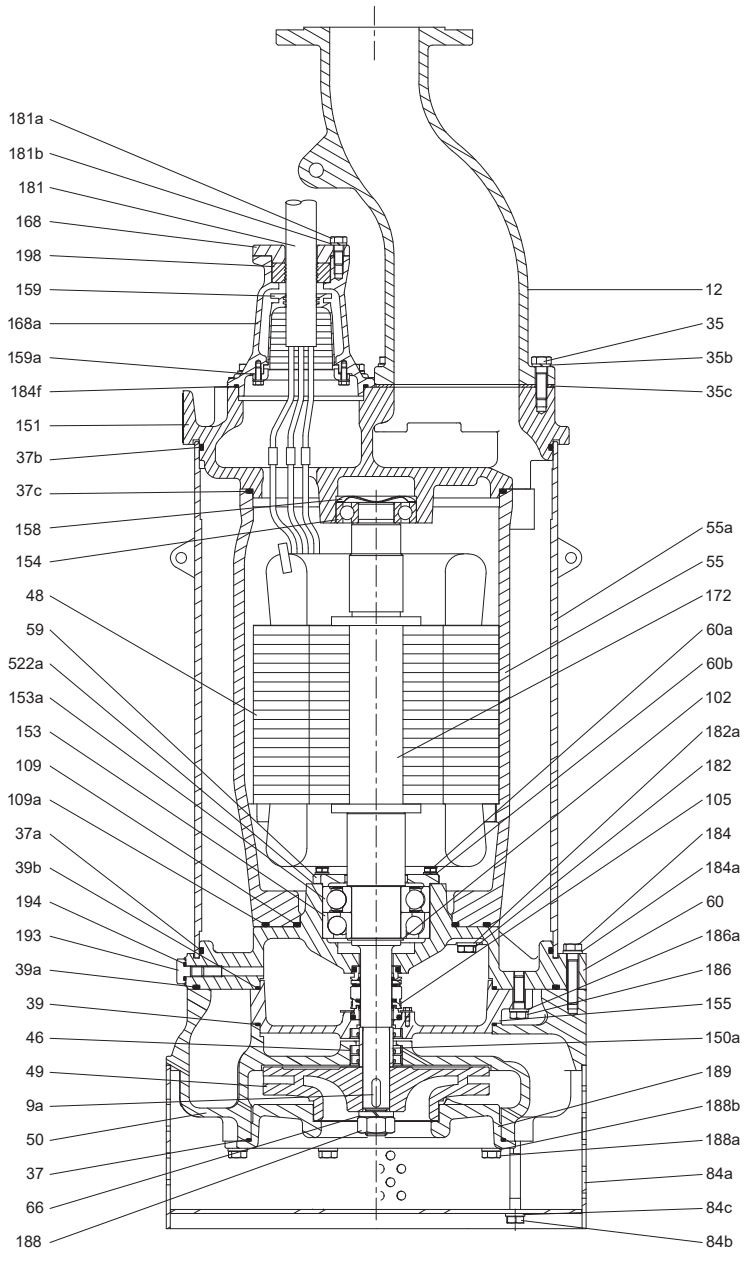
7.2.2 DWK.E



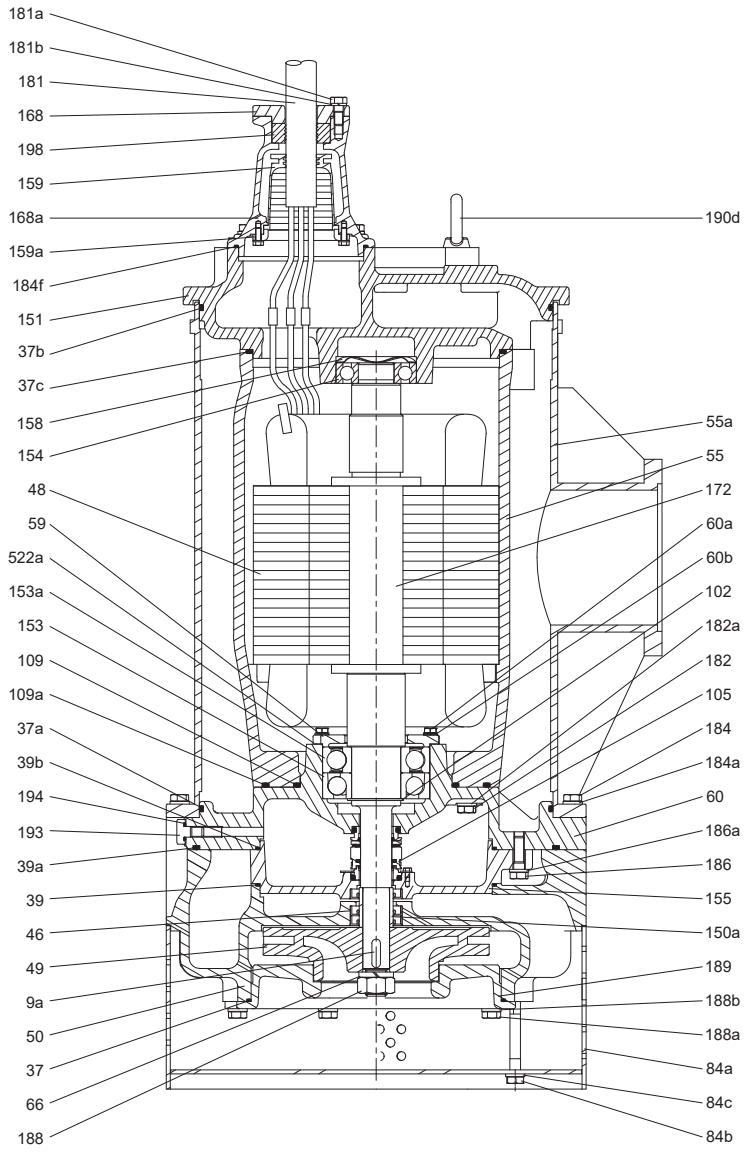
Exploded view, DWK.E.10.100.220, DWK.E.10.150.220, DWK.E.150.300 and DWK.E.10.200.300



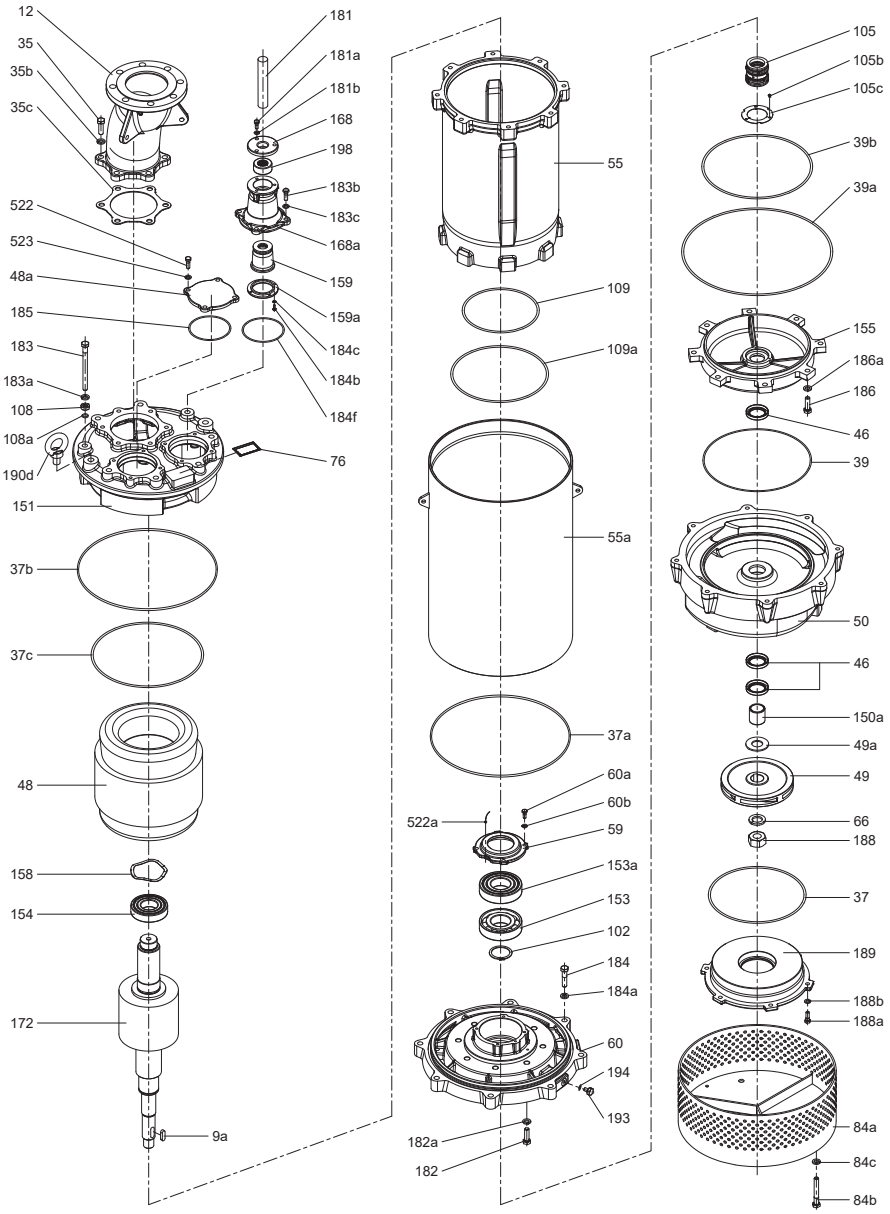
Exploded view, Auto-coupling outlet DWK.E.10.100.220.A, DWK.E.10.150.220.A, DWK.E.150.300.A and DWK.E.10.200.300.A



Sectional drawing DWK.E.10.100.200,DWK.E.10.150.220,DWK.E.150.300 and DWK.E.10.200.300

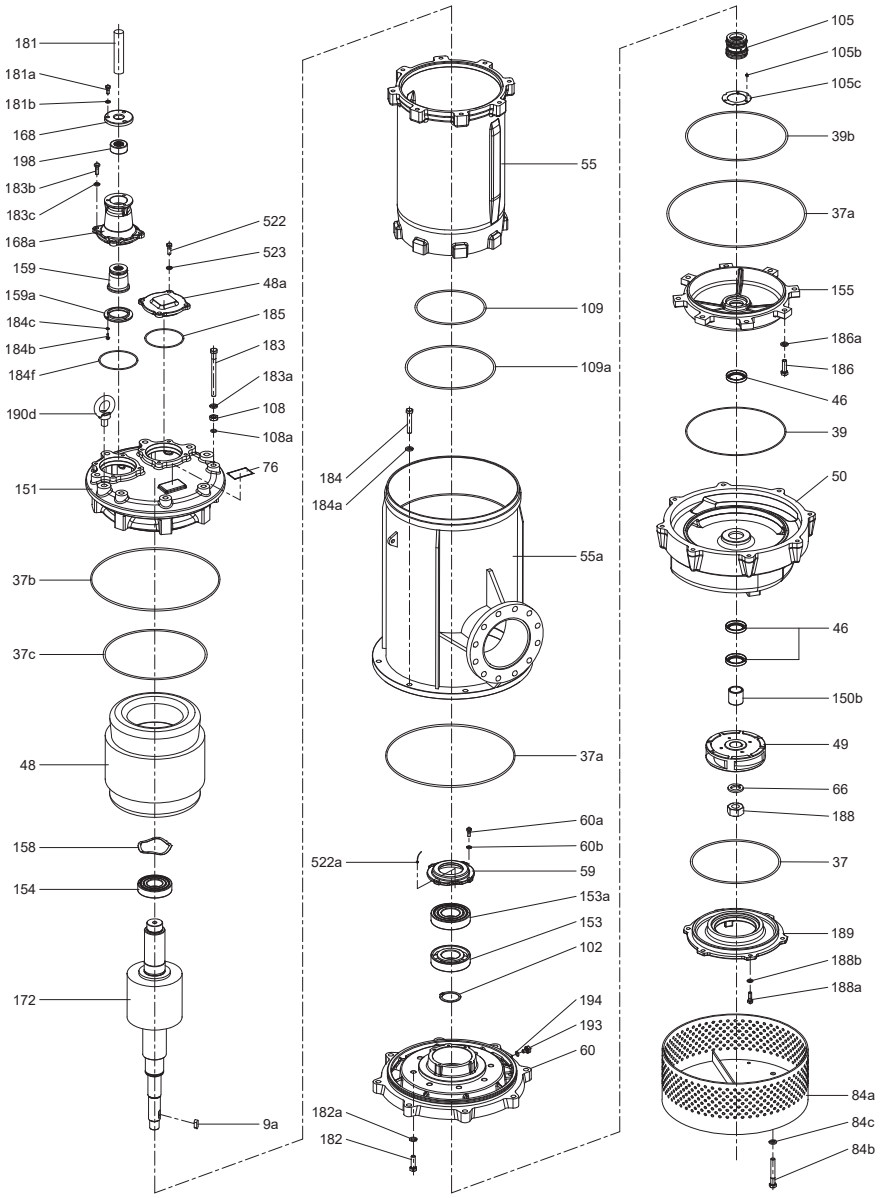


Sectional drawing, Auto-coupling outlet DWK.E.10.100.200.A, DWK.E.10.150.220.A, DWK.E.150.300.A DWK.E.10.200.300.A



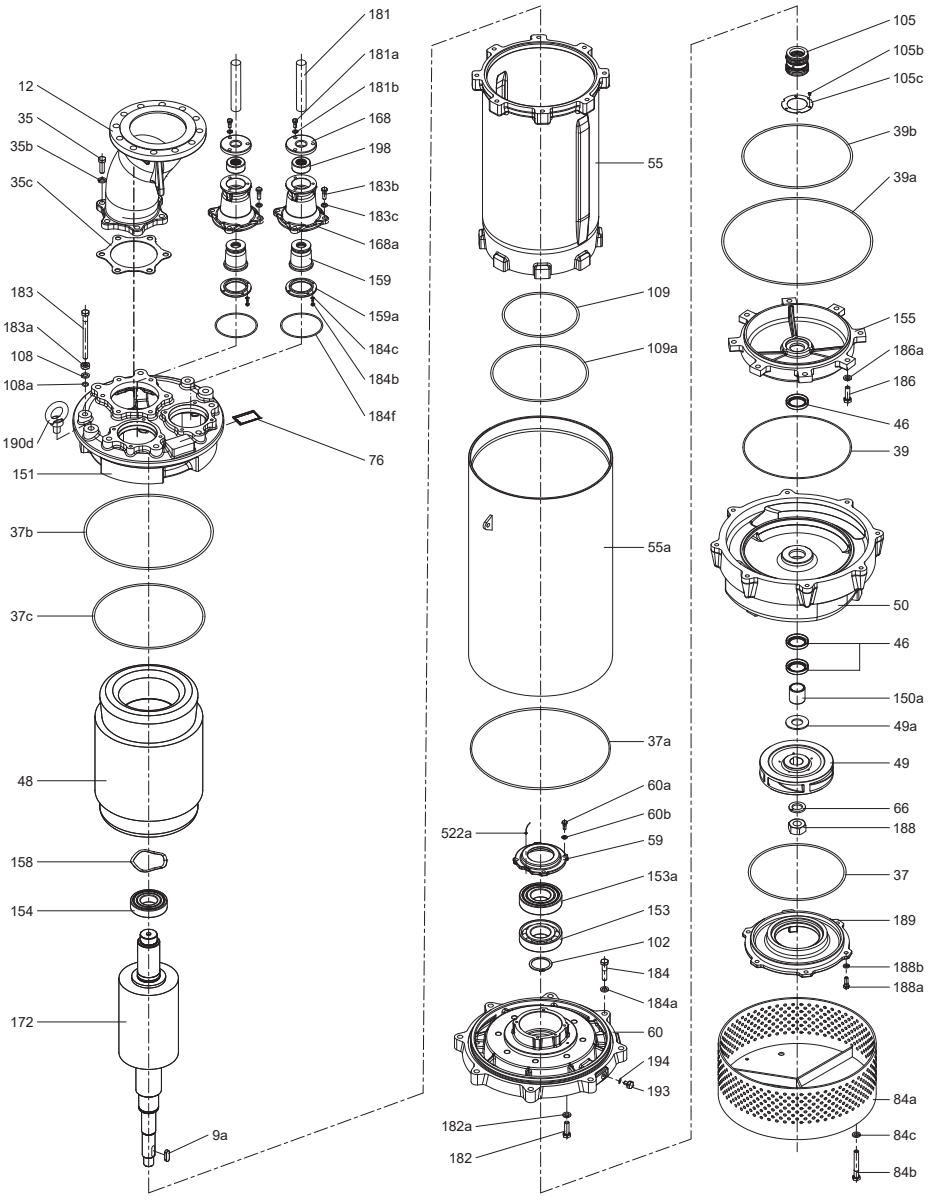
TM091174

Exploded view, DWK.E.10.150.370, DWK.E.10.150.450, DWK.E.10.200.370, DWK.E.10.200.450, DWK.E.10.150.550 and DWK.E.10.200.550, DWK.E.10.200.750

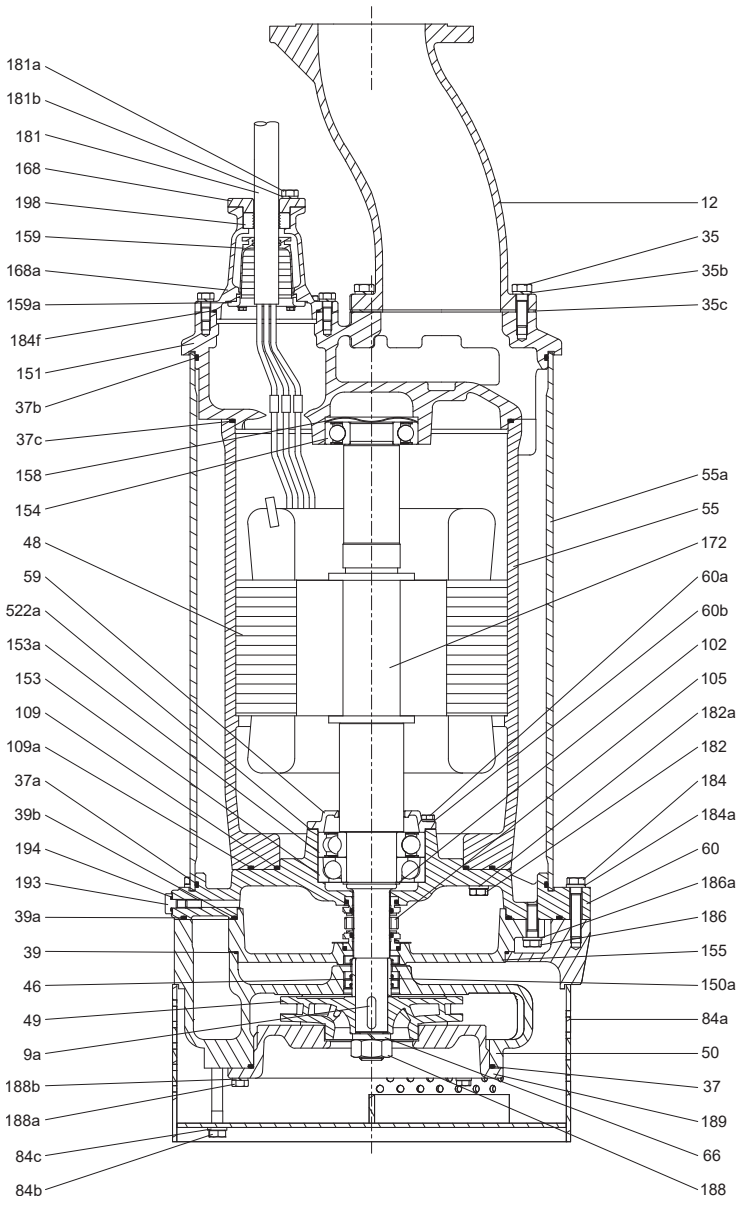


TM091176

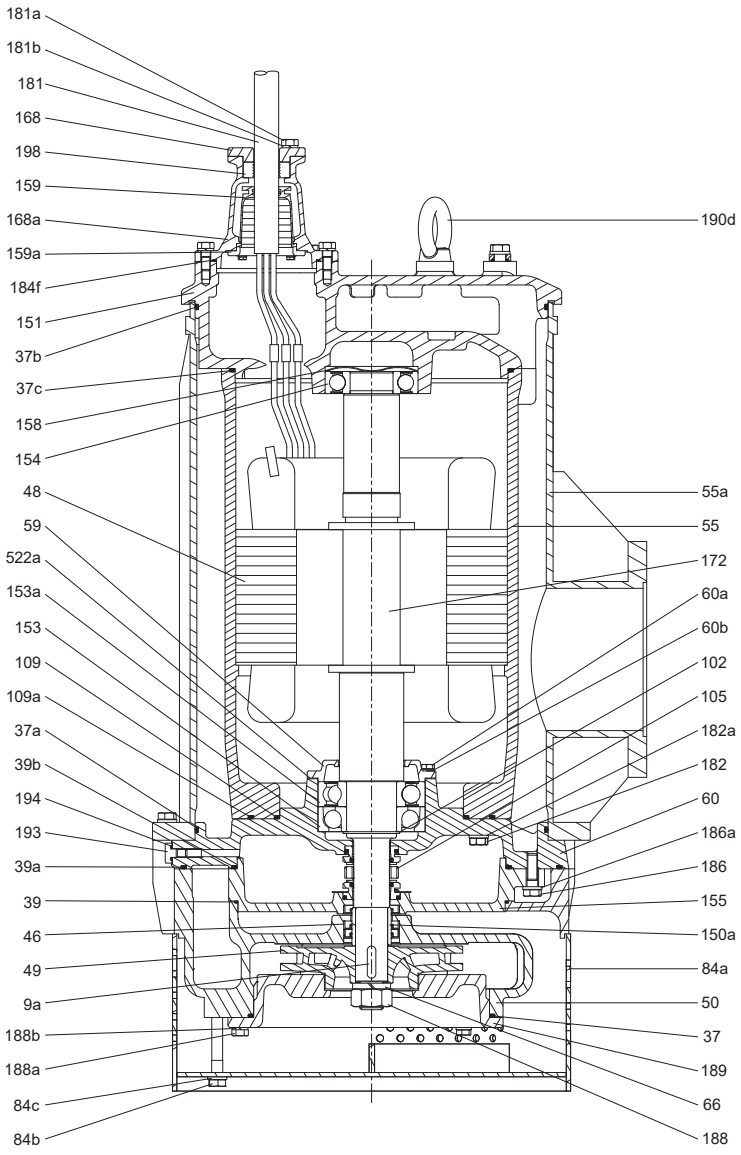
Exploded view, Auto-coupling outlet DWK.E.10.150.370.A, DWK.E.10.150.450.A, DWK.E.10.200.370.A, DWK.E.10.200.450.A, DWK.E.10.150.550.A, DWK.E.10.200.550.A DWK.E.10.200.750.A



Exploded view, DWK.E.10.200.900

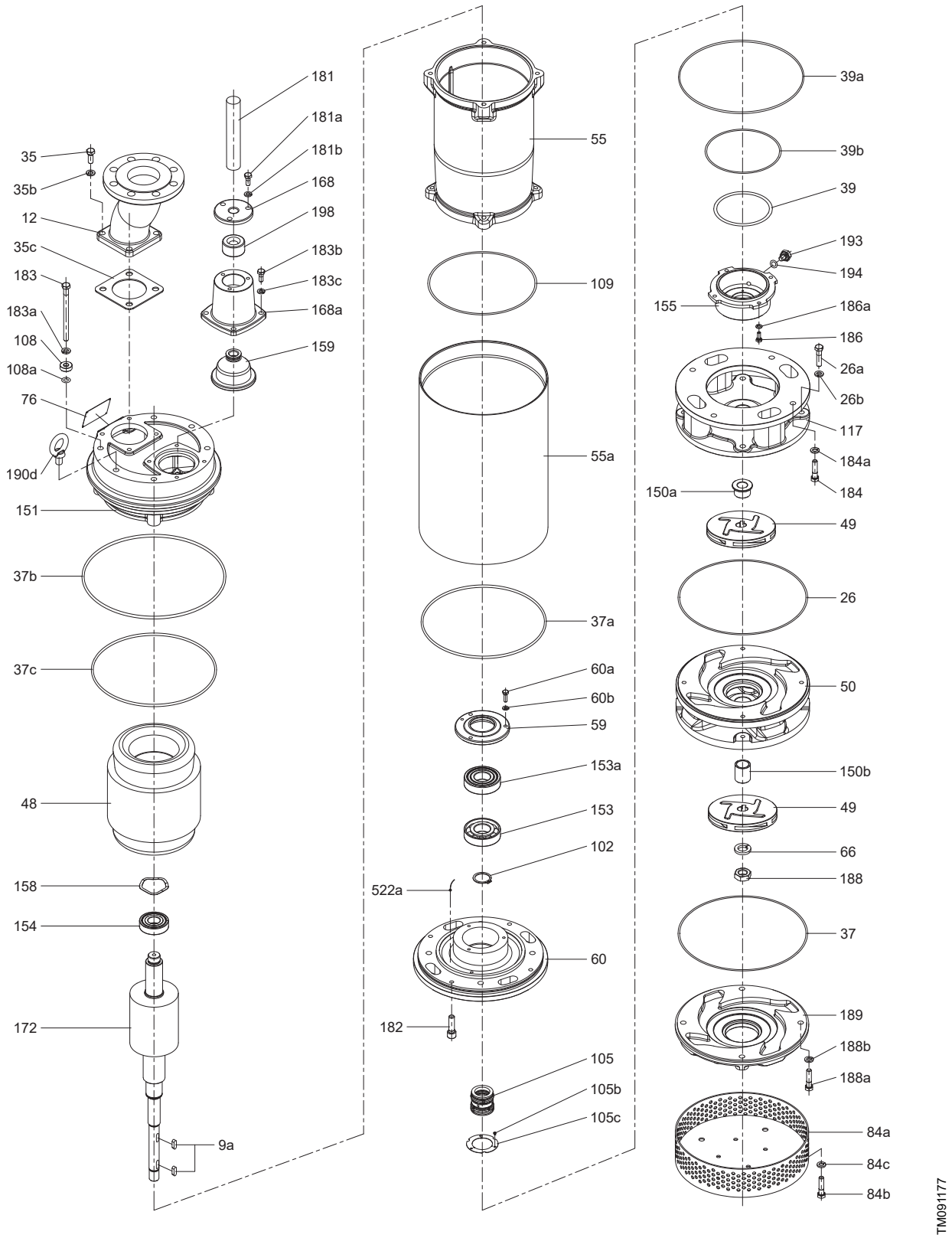


Sectional drawing, DWK.E.10.150.370, DWK.E.10.150.450, DWK.E.10.150.550, DWK.E.10.200.370, DWK.E.10.200.450, DWK.E.10.200.550, DWK.E.10.200.750, DWK.E.10.200.900

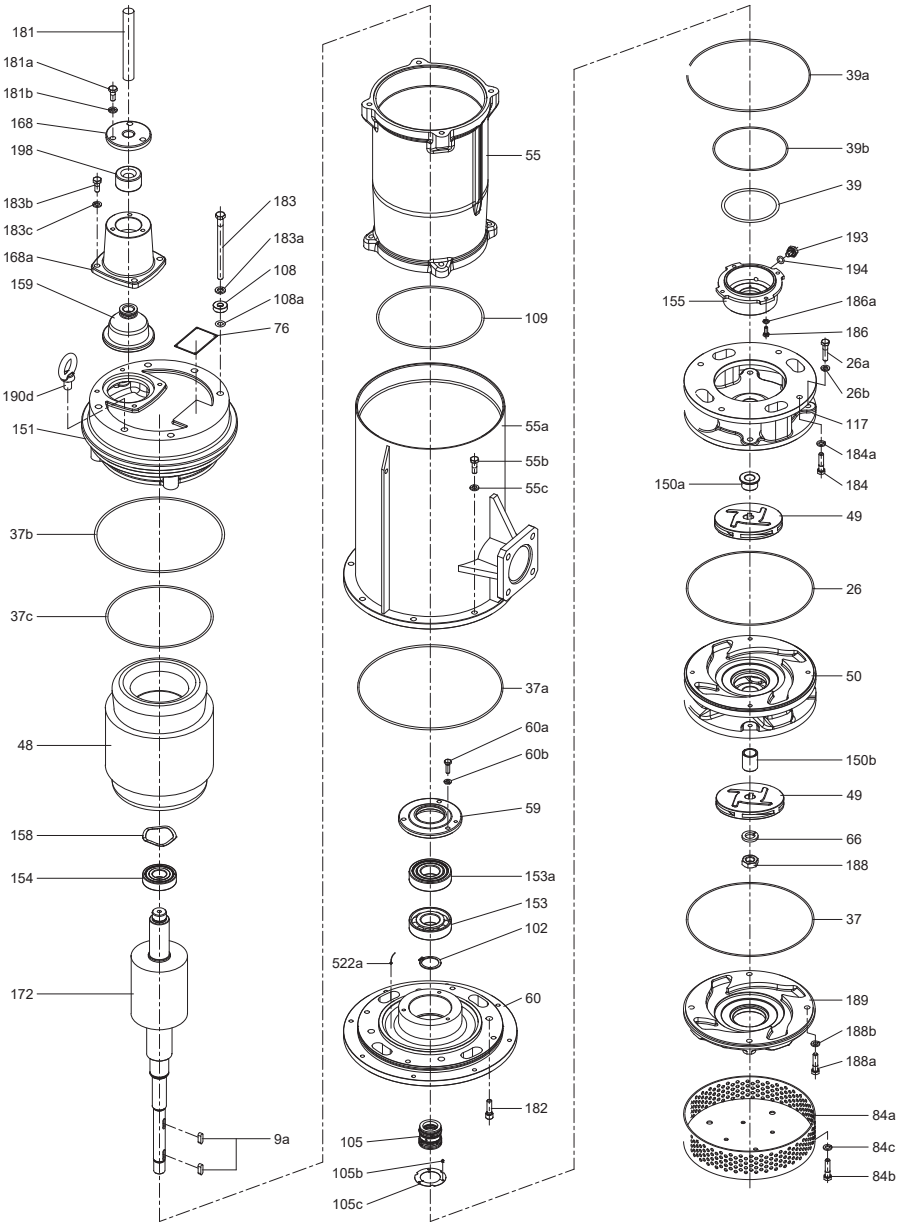


Sectional drawing, Auto-coupling outlet DWK.E.10.150.370.A, DWK.E.10.150.450.A, DWK.E.150.550.A, DWK.E.10.200.370.A, DWK.E.10.200.450.A, DWK.E.10.200.550.A

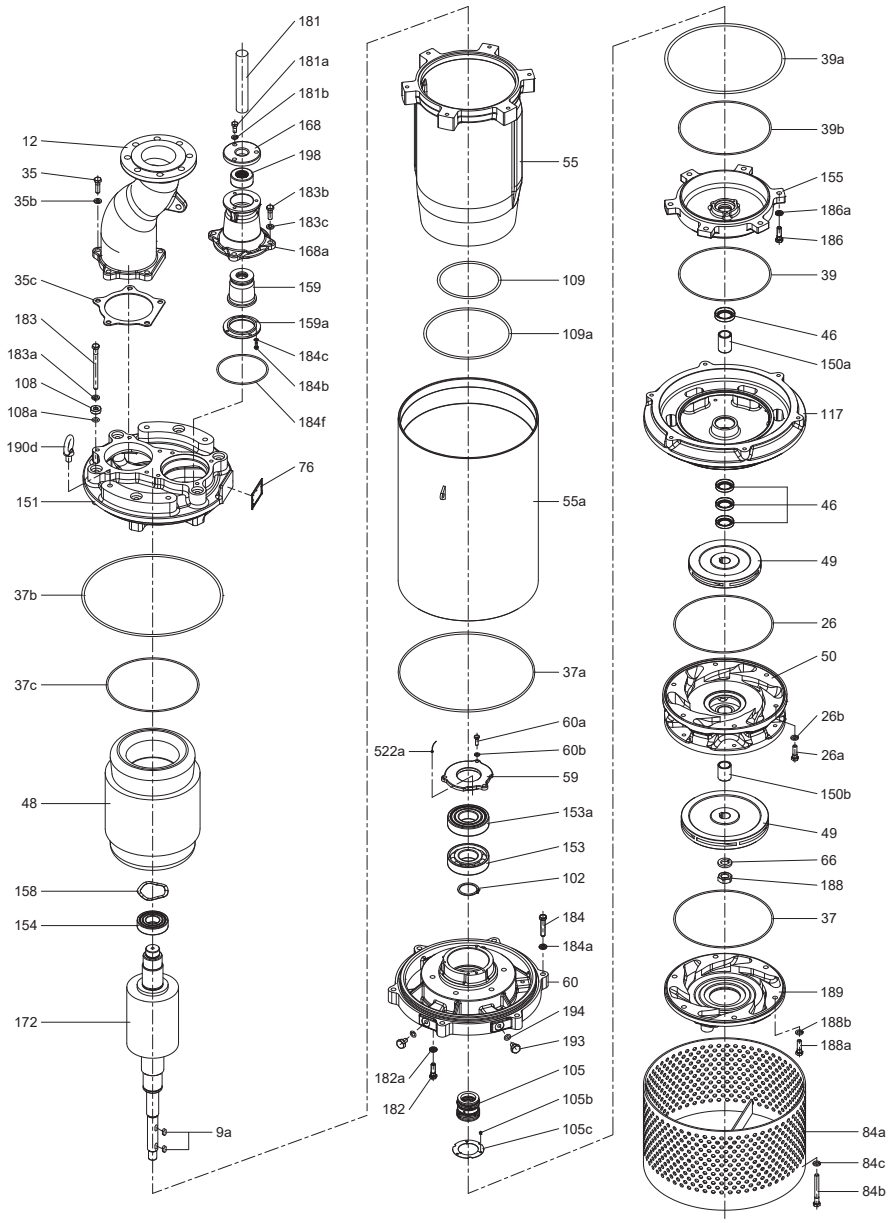
7.2.3 DWK.H



Exploded view, DWK.H.7.80.110 and DWK.H.7.80.150

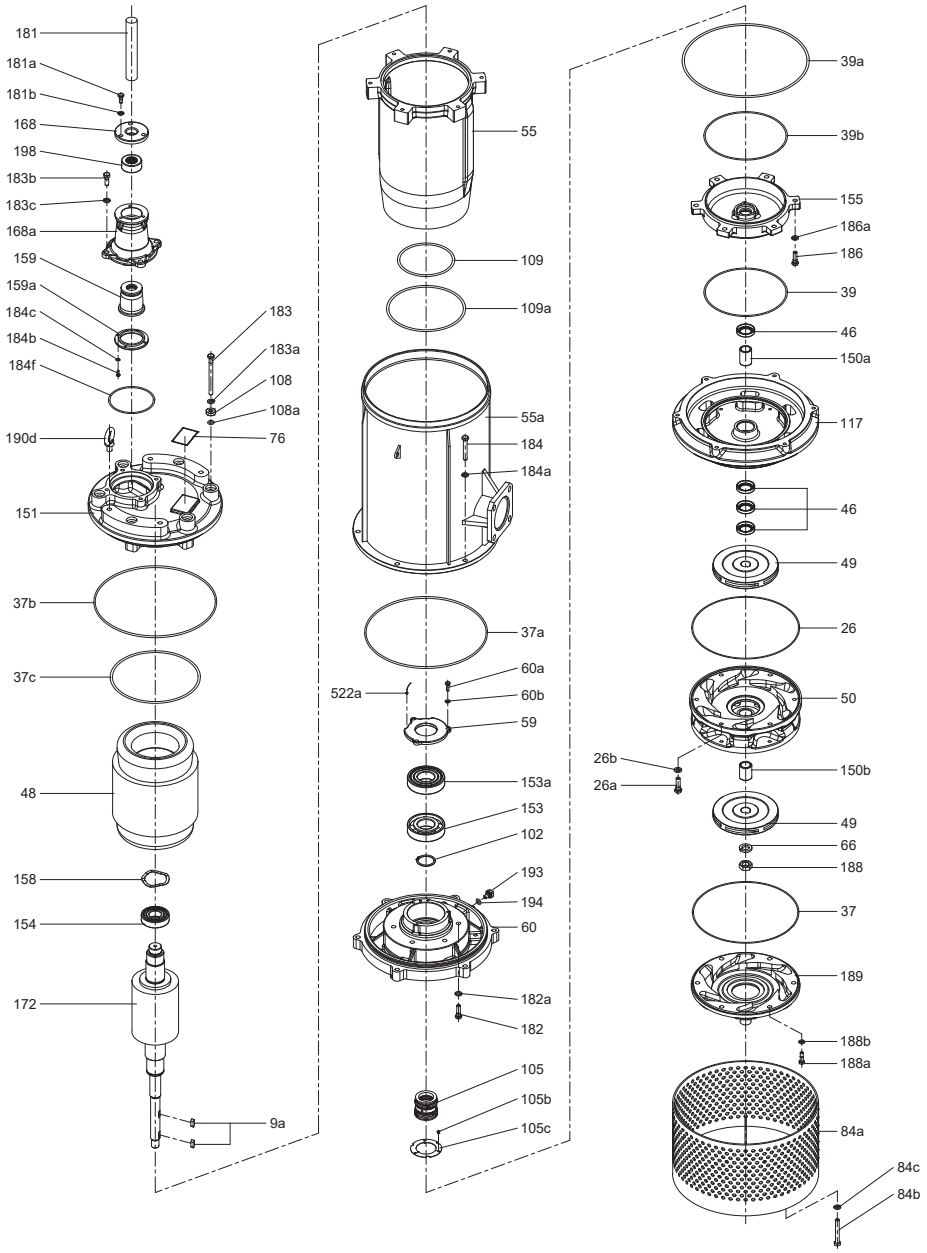


Exploded view, Auto-coupling DWK.H.7.80.110.A and DWK.H.7.80.150.A

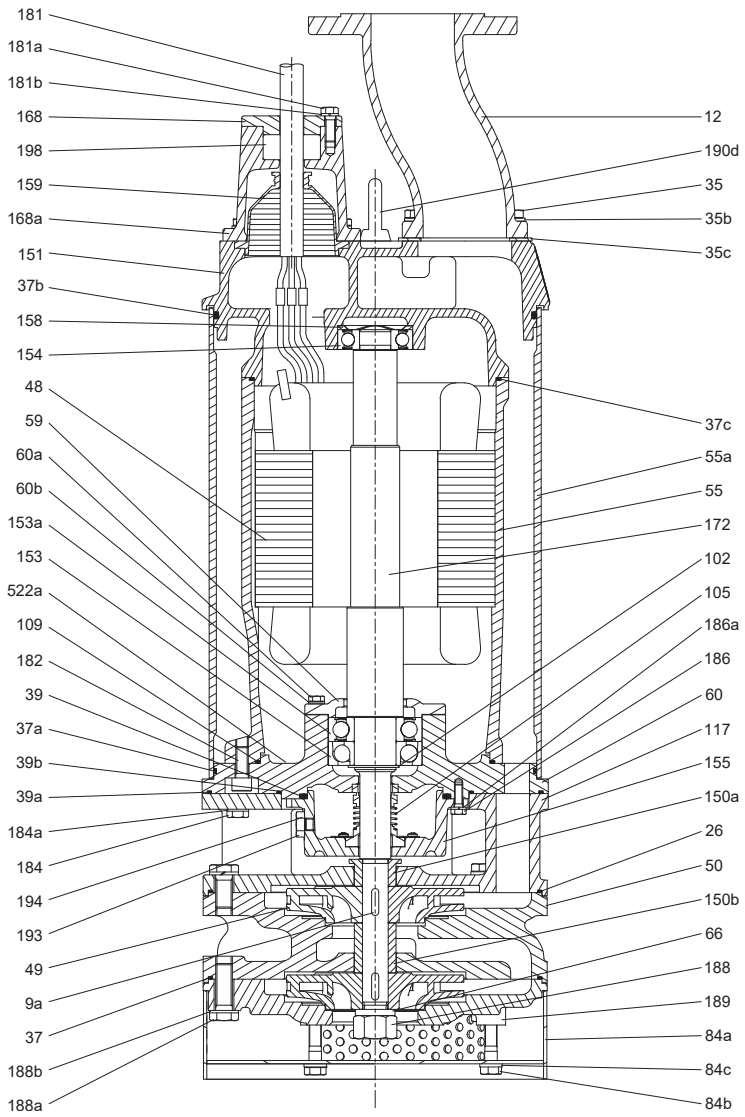


TM091274

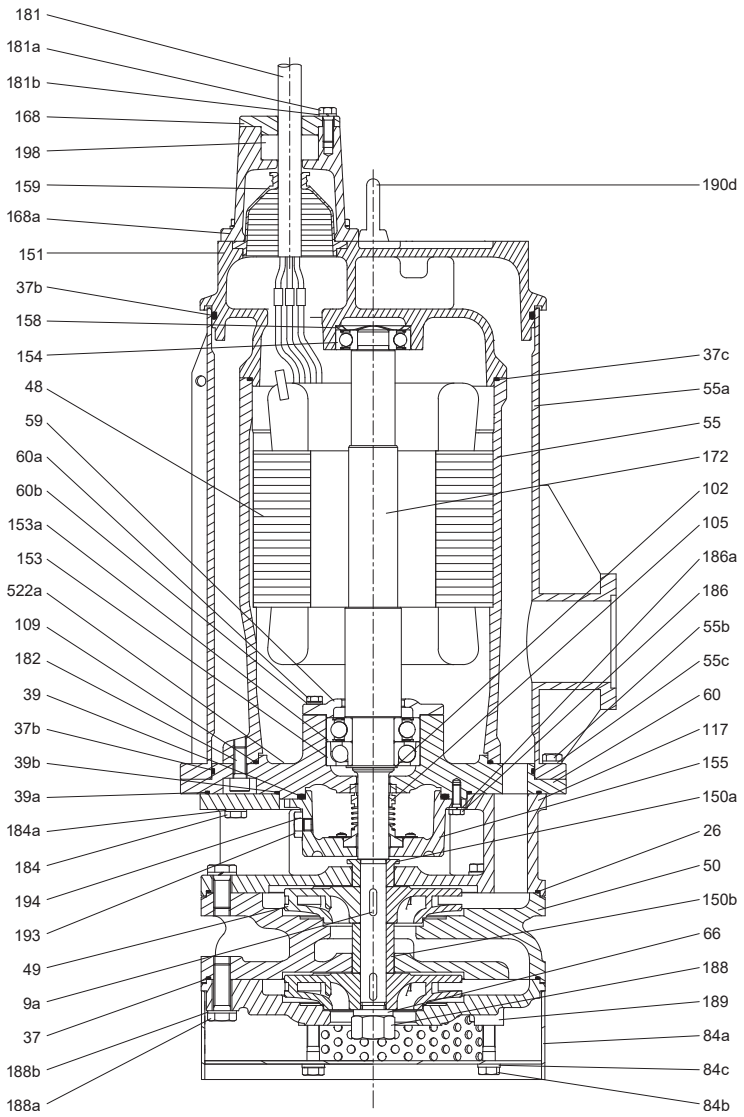
Exploded view, DWK.H.7.100.220 and DWK.H.7.100.300



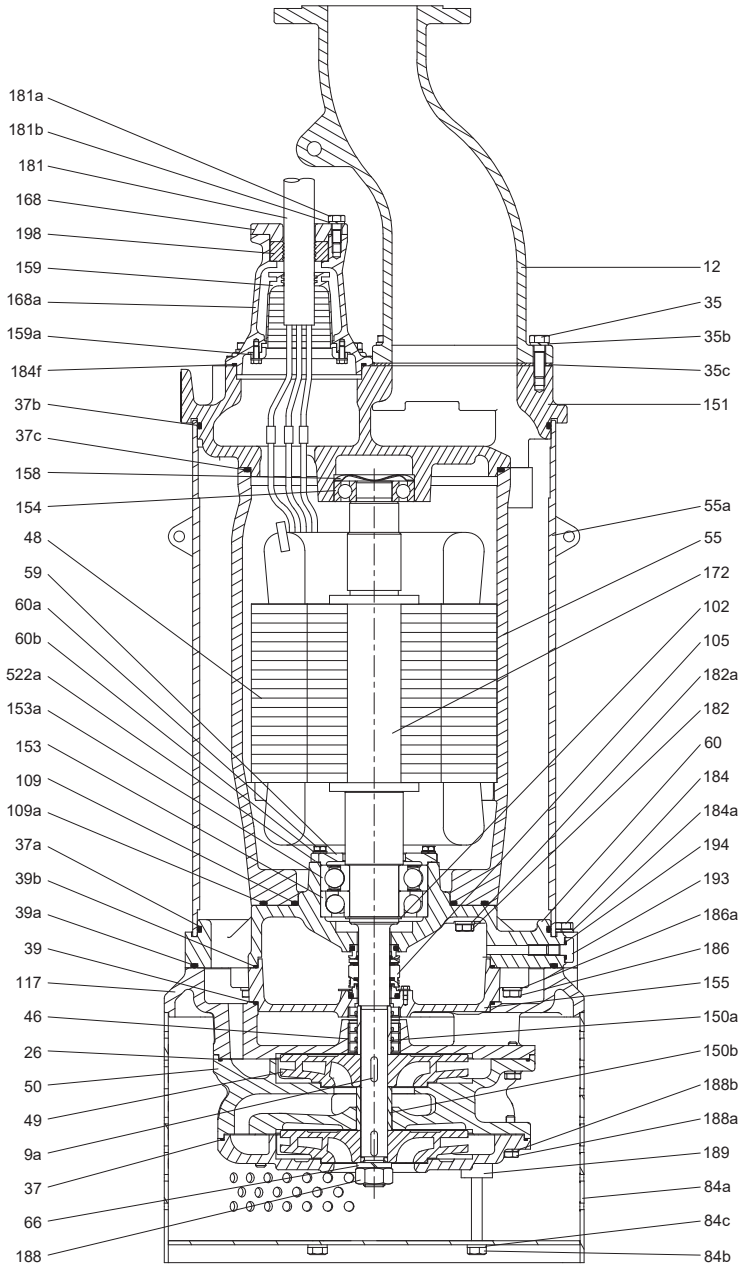
Exploded view, Auto-coupling outlet DWK.H.7.100.220.A, DWK.H.7.100.300.A



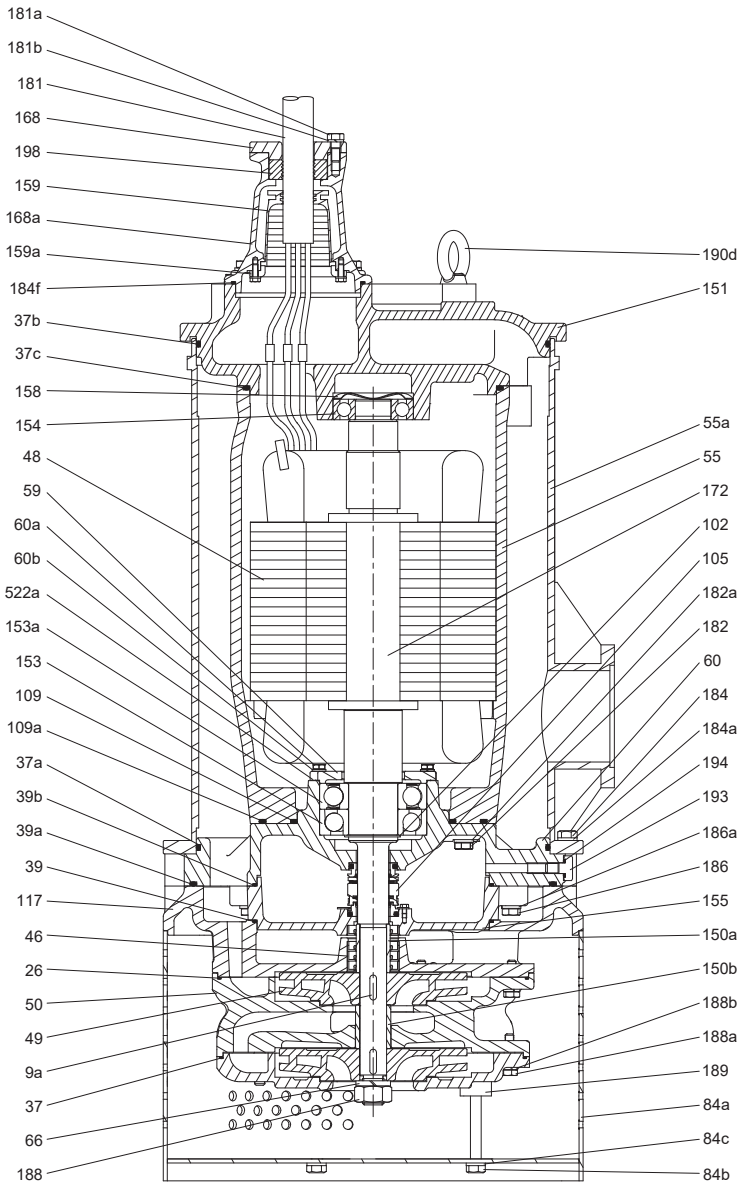
Sectional drawing, DWK.H.7.80.110 and DWK.H.7.80.150



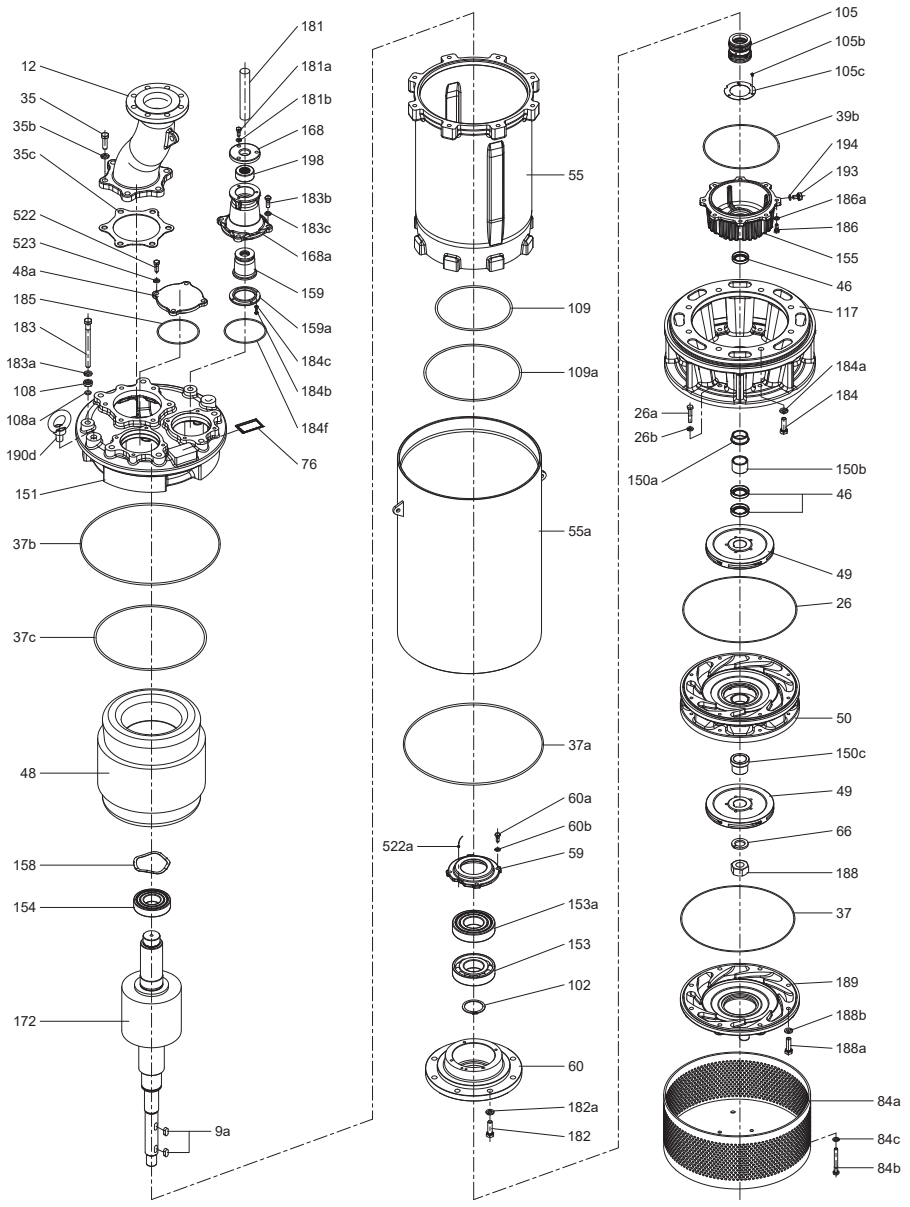
Sectional drawing, Auto-coupling outlet DWK.H.7.80.110.A, DWK.H.7.80.150.A



Sectional drawing, DWK.H.7.100.220, DWK.H.7.100.300

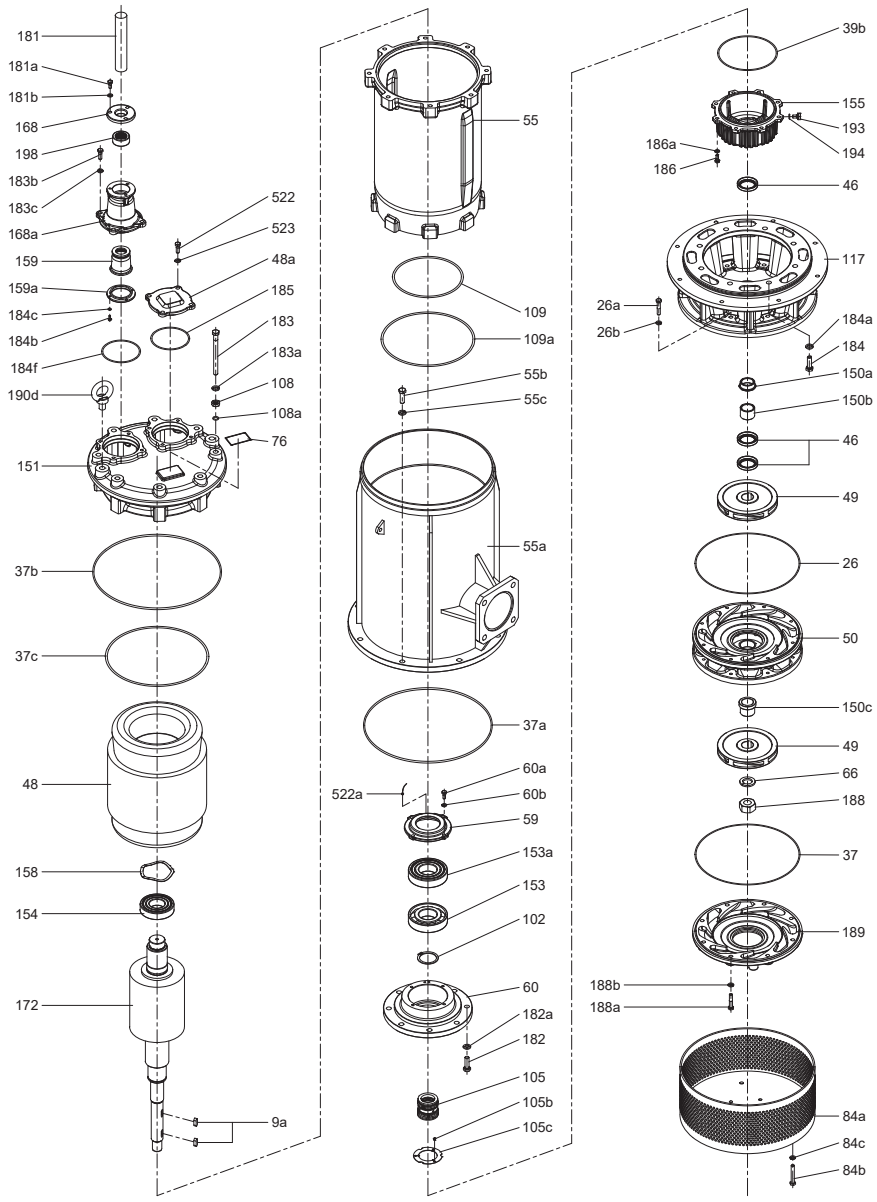


Sectional drawing, Auto-coupling outlet DWK.H.7.100.220.A, DWK.H.7.100.300.A

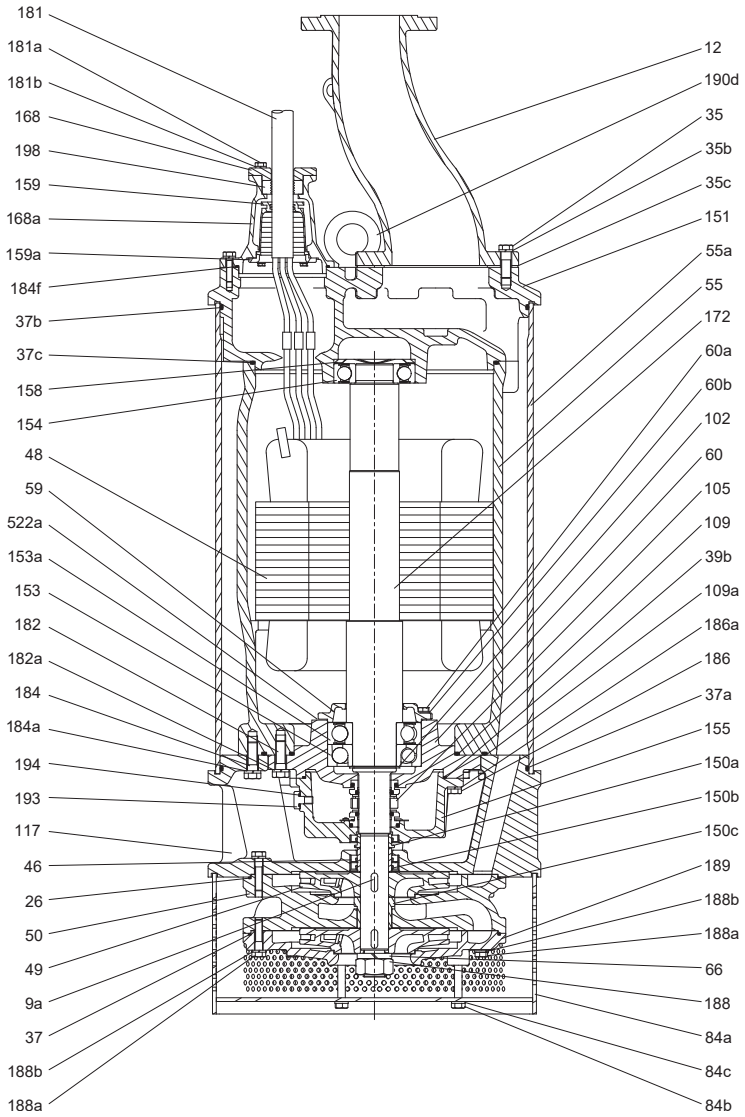


TM091276

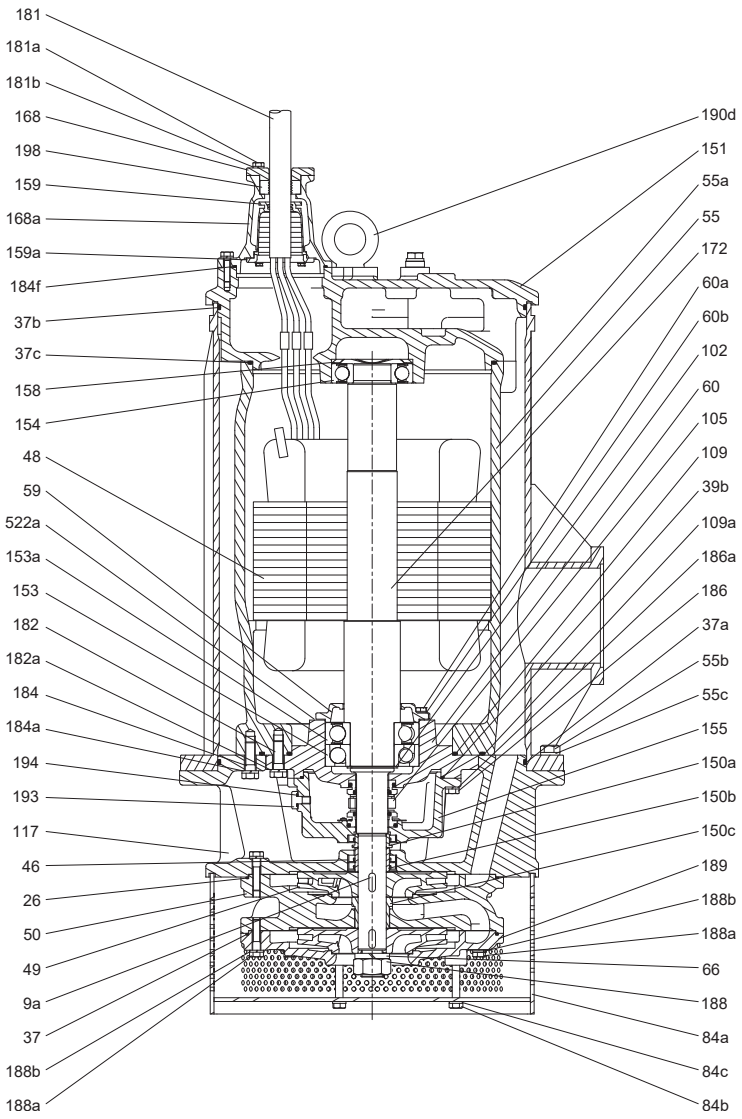
Exploded view, DWK.H.7.100.370, DWK.H.7.150.450 and DWK.H.7.150.550



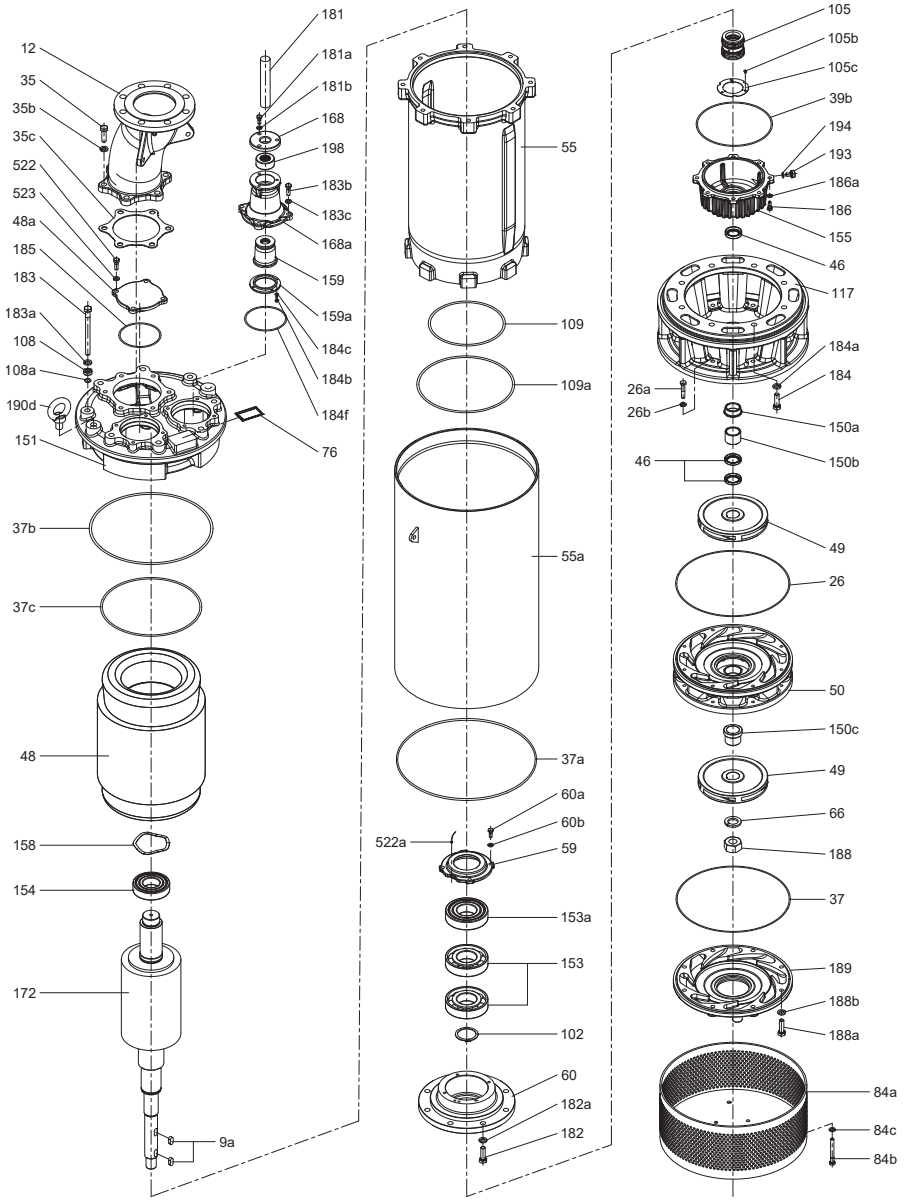
Exploded view, Auto-coupling outlet DWK.H.7.150.370.A,DWK.H.7.150.400.A, DWK.H.7.150.550.A



Sectional drawing, DWK.H.7.100.370, DWK.H.7.150.450, DWK.H.7.150.550

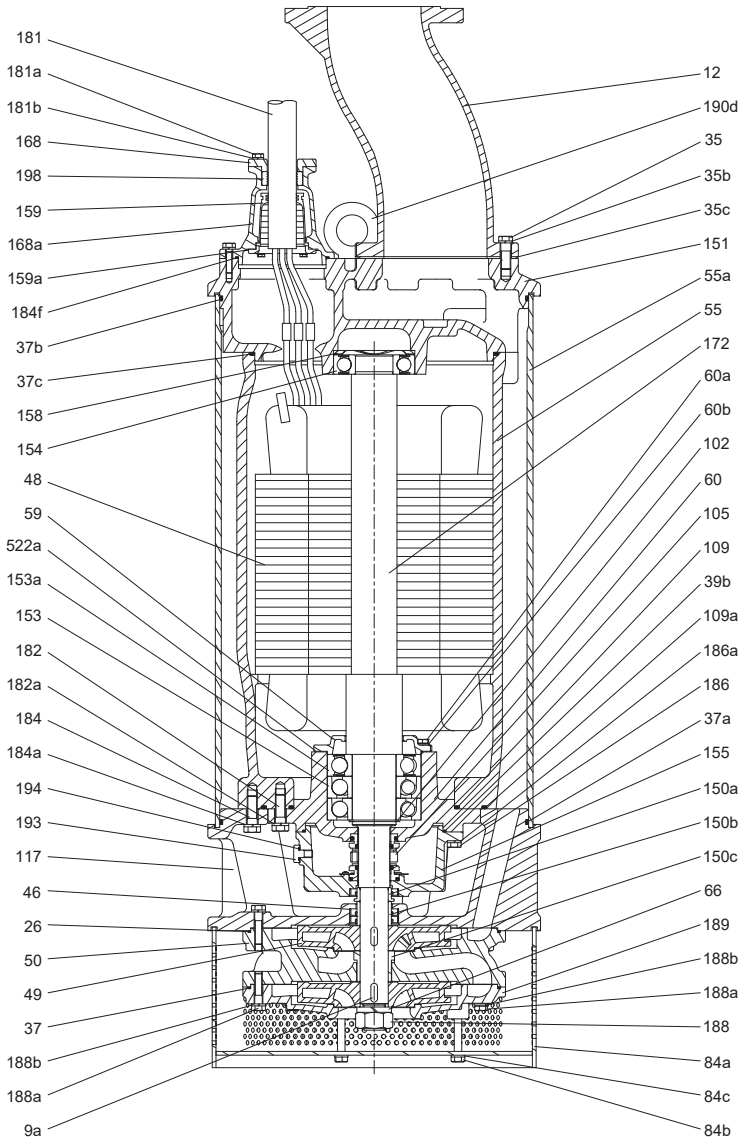


Sectional drawing, Auto-coupling outlet DWK.H.7.150.370.A, DWK.H.7.150.400.A, DWK.H.7.150.550.A



TM091278

Exploded view, DWK.H.7.150.750 and DWK.H.7.150.900



Sectional drawing, DWK.H.7.150.750 and DWK.H.7.150.900

7.3 Material specification

Pos.	Designation		Material		
			KS	ASTM	DIN
9a	Key		STS410	ANSI 410	17440
12	Flange[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
13	Hose connection[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
26	O-ring		NBR	NBR	NBR
26a	Washer		STS304	A276-304	1.4301
26b	Screw		SM25C	A108-1025	-
35	Hexagon head cap screw		STS304	A276-304	1.4301
35a	O-ring		NBR	NBR	NBR
35b	Spring washer		STS304	A276-304	1.4301
35c	Gasket		NBR	NBR	NBR
37	O-ring		NBR	NBR	NBR
37a	O-ring		NBR	NBR	NBR
37b	O-ring		NBR	NBR	NBR
37c	O-ring		NBR	NBR	NBR
37e	Gasket		NBR	NBR	NBR
39	O-ring		NBR	NBR	NBR
39a	O-ring		NBR	NBR	NBR
39b	O-ring		NBR	NBR	NBR
39c	O-ring		NBR	NBR	NBR
39e	Gasket		NBR	NBR	NBR
46	Lip seal		SCP1	SCP1	SCP1
46a	Lip seal		SCP1	SCP1	SCP1
48	Stator		-	-	-
48a	Cable inlet cover		GC250	A48-CL35	GG25
49	Impeller	Standard version	GCD450	A536-77	GGG45
		R version	Hi-Cr	Hi-Cr	Hi-Cr
50	Pump housing[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
55	Motor housing[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
55a	Outer casing (DWK.E/ DWK.H)		SPP	A53-48	1629(1)-61
55b	Hexagon head cap screw		STS304	A276-304	1,4301
55c	Spring washer		STS304	A276-304	1,4301
59	Bearing cover[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
60	Lower bearing bracket[1]		GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
60a	Hexagon head cap screw		SM25C	A108-1025	-
60b	Spring washer		SM25C	A108-1025	-
66	Spring washer		STS304	A276-304	1.4301
76	Nameplate		STS304	A276-304	1.4301
84a	Inlet strainer	Standard version	SS400	A283-Gr.D	-
		R version	STS304	A276-304	1.4301
84b	Hexagon head cap screw		STS304	A276-304	1.4301
84c	Spring washer		STS304	A276-304	1.4301
102	Stop ring		-	-	-
105	Mechanical shaft seal		SIC/SIC	SIC/SIC	SIC/SIC
105b	Hexagon head cap screw		STS304	A276-304	1.4301
105c	Shaft seal retainer		SM25C	A108-1025	-
107	O-ring		NBR	NBR	NBR
108	Sealing washer		STS304	A276-304	1.4301

Pos.	Designation	Material		
		KS	ASTM	DIN
108a	O-ring	NBR	NBR	NBR
109	O-ring	NBR	NBR	NBR
109a	O-ring	NBR	NBR	NBR
117	Bridge	GC250	A48-CL35	GG25
150	Shaft sleeve	STS304	A276-304	1.4301
150a	Sleeve	STS304	A276-304	1.4301
150b	Sleeve	STS304	A276-304	1.4301
150c	Sleeve	STS304	A276-304	1.4301
151	Head cover[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
153	Lower bearing	-	-	-
153a				
154	Upper bearing	-	-	-
154a	Cover	-	-	-
154c	O-ring	NBR	NBR	NBR
155	Shaft seal housing[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
158	Wave washer			
159	Rubber tube	NBR	NBR	NBR
159a	Clamping ring[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
168	Clamping ring[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
168a	Cable entry[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
172	Rotor with shaft	STS410	ANSI 410	-
178	Hexagon head cap screw	STS304	A276-304	1.4301
178a	Spring washer	STS304	A276-304	1.4301
181	Power cable	PNCT	PNCT	PNCT
181a	Hexagon head cap screw	STS304	A276-304	1.4301
181b	Spring washer	STS304	A276-304	1.4301
182	Hexagon head cap screw	STS304	A276-304	1.4301
182a	Spring washer	STS304	A276-304	1.4301
183	Hexagon head cap screw	STS304	A276-304	1.4301
183a	Spring washer	STS304	A276-304	1.4301
183b	Hexagon head cap screw	STS304	A276-304	1.4301
183c	Spring washer	STS304	A276-304	1.4301
184	Hexagon head cap screw	STS304	A276-304	1.4301
184a	Spring washer	STS304	A276-304	1.4301
184b	Hexagon head cap screw	STS304	A276-304	1.4301
184c	Spring washer	STS304	A276-304	1.4301
184f	O-ring	NBR	NBR	NBR
185	O-ring	NBR	NBR	NBR
186	Hexagon head cap screw	STS304	A276-304	1.4301
186a	Spring washer	STS304	A276-304	1.4301
188	Hexagon nut	STS304	A276-304	1.4301
188a	Hexagon head cap screw	STS304	A276-304	1.4301
188b	Spring washer	STS304	A276-304	1.4301
189	Inlet cover	GCD450	A536-77	GGG40
190	Lifting bracket	STS304	A276-304	1.4301
190d	Eyebolt	STS304	A276-304	1.4301
193	Oil plug	STS304	A276-304	1.4301

Pos.	Designation	Material		
		KS	ASTM	DIN
194	O-ring	NBR	NBR	NBR
198	Cable gland	NBR	NBR	NBR
198a	Washer	STS304	A276-304	1.4301
522	Hexagon head cap screw	STS304	A276-304	1.4301
522a	Seal sensor			
523	Spring washer	STS304	A276-304	1.4301

[1] Materials for products up to 15 kW / Materials for 19 kW and larger products, e.g.: GC200/ GC250.

8. Product description

8.1 Features

8.1.1 Ball bearings

The top bearing is single row deep-groove ball bearing.

The lower bearing, depending on the specific pump type can be:

- one single row deep-groove ball bearing.
- two bearings, with 1 single row deep-groove ball bearing and 1 single-row angular contact ball bearing.

All bearings are lubricated in the factory, no further lubrication is needed.

8.1.2 Shaft seals

DWK.O

The pumps have double mechanical shaft seals separating the motor from the pumped liquid. The shaft seals are in the oil chamber.

The primary seal is SiC-SiC and the secondary is Carbon/Ceramic.

DWK.E, DWK.H

The pumps have double mechanical shaft seals and an additional lip seal. The additional lip seal protects the mechanical seals and shaft against abrasives. In case of wear, the lip seal can be replaced.

Note: DWK.H 11 and 15 kW do not have any additional lip seal.

The seal faces are made of SiC/SiC.

8.1.3 Motor

The motor is watertight and enclosed.

Number of poles: 2

Insulation class: F (155 °C).

Temperature rise class: F (105 °C).

Enclosure class: IP68.

Pump type	Power, P2 [kW]
DWK.O	0.75
DWK.O	1.5
DWK.O	2.2
DWK.O	3.7
DWK.O	5.5
DWK.O	7.5
DWK.O/ DWK.H	11
DWK.O/ DWK.H	15
DWK.E/ DWK.H	22
DWK.E/ DWK.H	30
DWK.E/ DWK.H	37
DWK.E/ DWK.H	45
DWK.E/ DWK.H	55
DWK.E/ DWK.H	75
DWK.E/ DWK.H	90

8.1.4 Cables

The standard cable type is PNCT.

The cables are 10 m long as standard. Other cable lengths are available on request.

The number and dimension of cables depend on the motor size.

Cable type		Cable data		
Power (ground) cable	Sensor cable	Outer cable diameter [mm]	Bending radius	Pump type
[mm²]			Free [mm]	
3 × 10 + 1 × 6	+ 4 × 1	22 ± 1	330	DWK.H
3 × 16 + 1 × 10	+ 4 × 1.5	26 ± 1	390	DWK.H
4 × 50*	+ 4 × 1.5	45.0 ± 1	675	DWK.H, DWK.E
4 × 1.5	-	13 ± 0.8	192	DWK.O
4 × 1.5	+ 2 × 1	17.5 ± 0.5	263	DWK.O
4 × 1.5	+ 2 × 1	17.5 ± 0.5	263	DWK.O
4 × 4	+ 4 × 1	21.5 ± 1	323	DWK.O
4 × 6	+ 4 × 1	25-25.4 ± 1	369	DWK.O
4 × 10	+ 6 × 1	33.6 ± 1.0	354	DWK.O
7 × 10	+ 6 × 1.5	34.0 ± 1	510	DWK.E, DWK.H
7 × 16	+ 6 × 1.5	34.0 ± 1	510	DWK.E, DWK.H
7 × 25	+ 6 × 1.5	42.0 ± 1	630	DWK.E, DWK.H
7 × 35	+ 6 × 1.5	45.0 ± 1	675	DWK.E, DWK.H
7 × 4.0	+ 4 × 1	25-25.4 ± 1	381	DWK.O
7 × 6.0	+ 6 × 1	25-25.4 ± 1	429	DWK.O

* 2EA-two power cable

Cable entry

DWK.O

Cable entry consists of rubber bushing.

DWK.E, DWK.H

Cable entry consists of a rubber seal bushing, an epoxy diaphragm and a rubber cover. This provides radial and axial barrier against water penetration into the motor housing.

8.1.5 Sensors

The following thermal protections are available for DWK pumps, depending on the specific pump type:

- PTO located in the coil head, requires outside control through signal wires of the power cable.
- Klixon 17AM located in the coil head, requires outside control through the signal wires of the power cable.
- Klixon MW built in the motor compartment. It has an automatic reset and does not require outside control.

As standard, the pumps are fitted with a PTO that cuts the circuit, except for the following models:

- DWK.O.x.x.075.x.x.R
- DWK.O.x.x.15.x.x.R
- DWK.O.x.x.22.x.x.R and

- DWK.O.x.x.37.x.0D.R.

The above mentioned pumps have a circuit breaker Klixon MW instead of PTO. DWK pumps are equipped with seal sensor to monitor motor enclosure for liquid detection, except for the following models:

- DWK.O.x.x.075.x.x
- DWK.O.x.x.15.x.x
- DWK.O.x.x.22.x.x and
- DWK.O.x.x.37.x.

Customised sensor options

- Pt100 sensor monitors the motor temperature and lower bearing in versions the sensor is not included as standard.
- Seal electrode sensor monitors water penetration into the stator housing in DWK.O, in which the sensor is not included as standard.

8.1.6 Testing

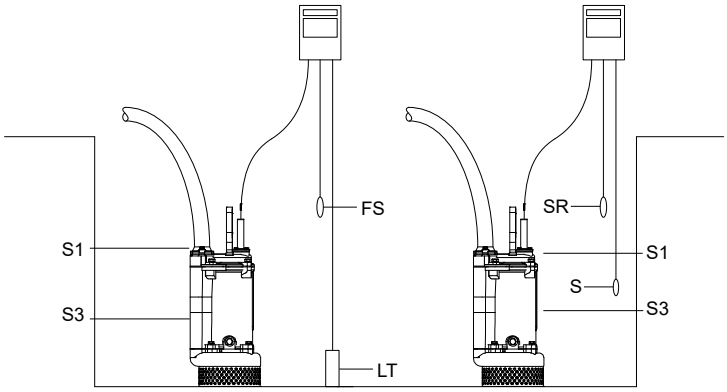
All pumps are tested before leaving the factory. The factory test report is based on ISO 9906:2012, grade 3B. Test reports can be ordered directly together with the pump or separately based on the pump serial number.

Other tests or third-party inspection certificates are available on request. See *List of variants*.

8.2 Operating modes

The pumps are designed for intermittent operation (S3). When DWK.O pumps are completely submerged in the pumped liquid, they can also operate continuously (S1). DWK.E and DWK.H pumps do not have to be fully submerged for S1 operation.

CAUTION
Hot surface
Minor or moderate personal injury
- The pump must be at least 2/3rd submerged into the pumped liquid at all times.



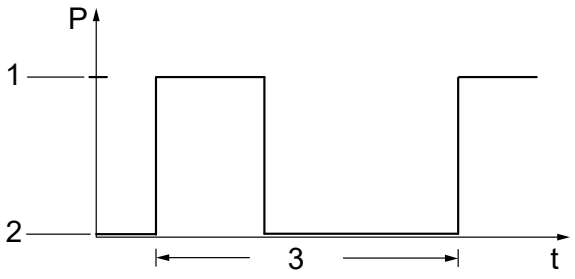
TM081328

Pump operating levels, analog level transmitter, and high-level float switch or digital float switches

Pos.	Description
S1	S1 operation
S3	S3 operation
FS	High-level float switch
LT	Level transmitter
SR	Start
S	Stop

S3, intermittent operation

S3 operation is a series of 10-minute duty cycles (TC): the pump must run for maximum 4 minutes and stop for minimum 6 minutes. Thermal equilibrium is not reached during the cycle. In this operating mode, the pump is partly submerged in the surrounding liquid. The minimum liquid level is at the top of the cable entry.



TM076800

S3 operation

Pos.	Description
1	Operation
2	Stop
3	Duty cycle

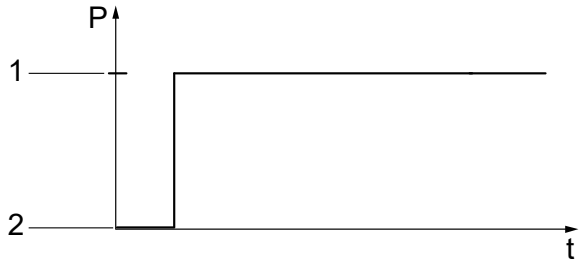
Maximum number of starts per hour:

Type	Starts/hour
DWK.O	30
DWK.E	15
DWK.H	15

S1, continuous operation

In this operating mode, the pump can operate continuously without being stopped for cooling. When the pump is completely submerged, it is sufficiently cooled by the surrounding liquid.

DWK.O pumps must be fully submerged for S1 operation.



TM076798

S1 operation

Pos.	Description
1	Operation
2	Stop

8.3 Pump controllers

Pumps can be controlled by LC 231 and LC 241 level controllers. Both controllers can be used in single or dual pump applications.

The LC 231 is a compact solution with certified motor protection and current measurement. LC 231 can be operated in a single pump setup up to 12A or dual pump setup up to 9.6A. Starting method is Direct On-Line for both analog pressure transmitter and digital float switches.

The LC 241 is a cabinet solution allowing setup customisation. Basic settings are configured through the operating panel. Advanced settings are configured with Grundfos GO Remote through Bluetooth. LC 241 can be operated in single and dual pump setup to 72A.

Starting methods are the following for both analog pressure transmitter and digital float switches:

- Direct On-Line
- Star-Delta
- Soft Starter.

For further settings, see the installation and operating instructions for the selected level controller.

8.4 Frequency converter operation

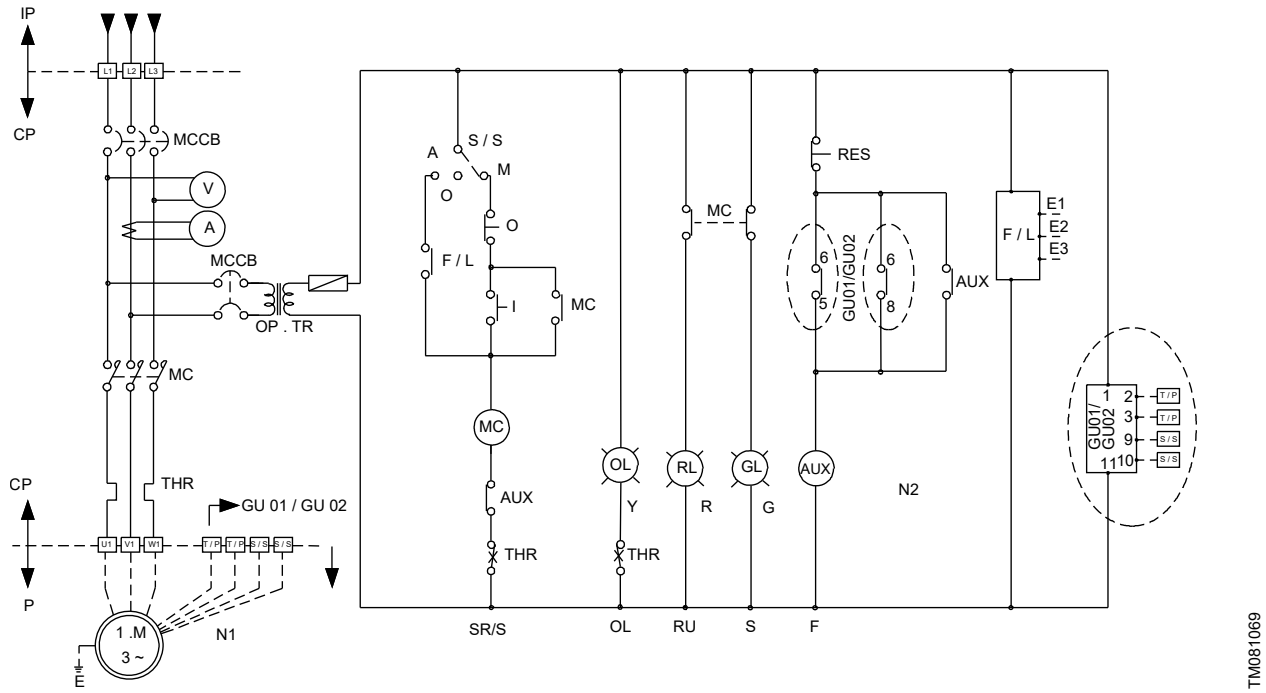
A frequency converter is only available for DWK.E and DWK.H versions up to 22 kW. DWK.O cannot be operated with frequency converter.

Frequency converter operation exposes the motor insulation system to a heavier load and may cause the motor to be more noisy due to eddy currents caused by voltage peaks.

In addition, large motors operated by a frequency converter are loaded by bearing currents.

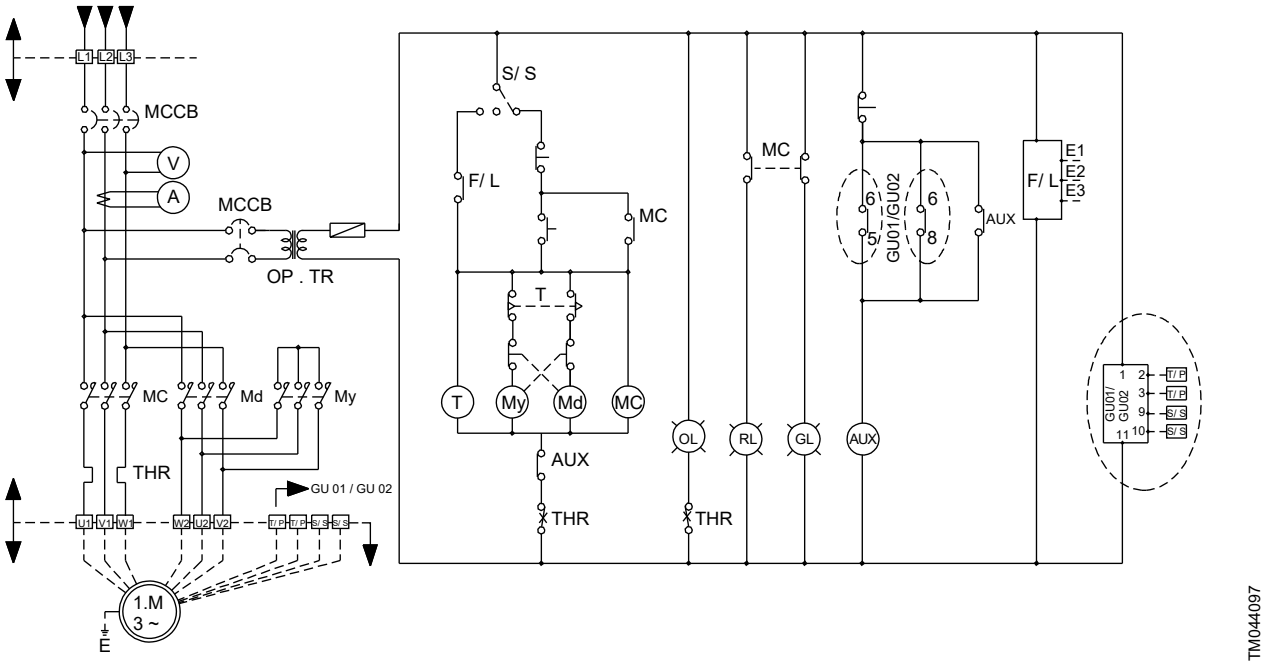
For more information, see the installation and operation instructions for the selected frequency converter in Grundfos Product Center at www.grundfos.com.

8.5 Wiring diagrams



TM081069

Wiring diagram, direct-on-line starting

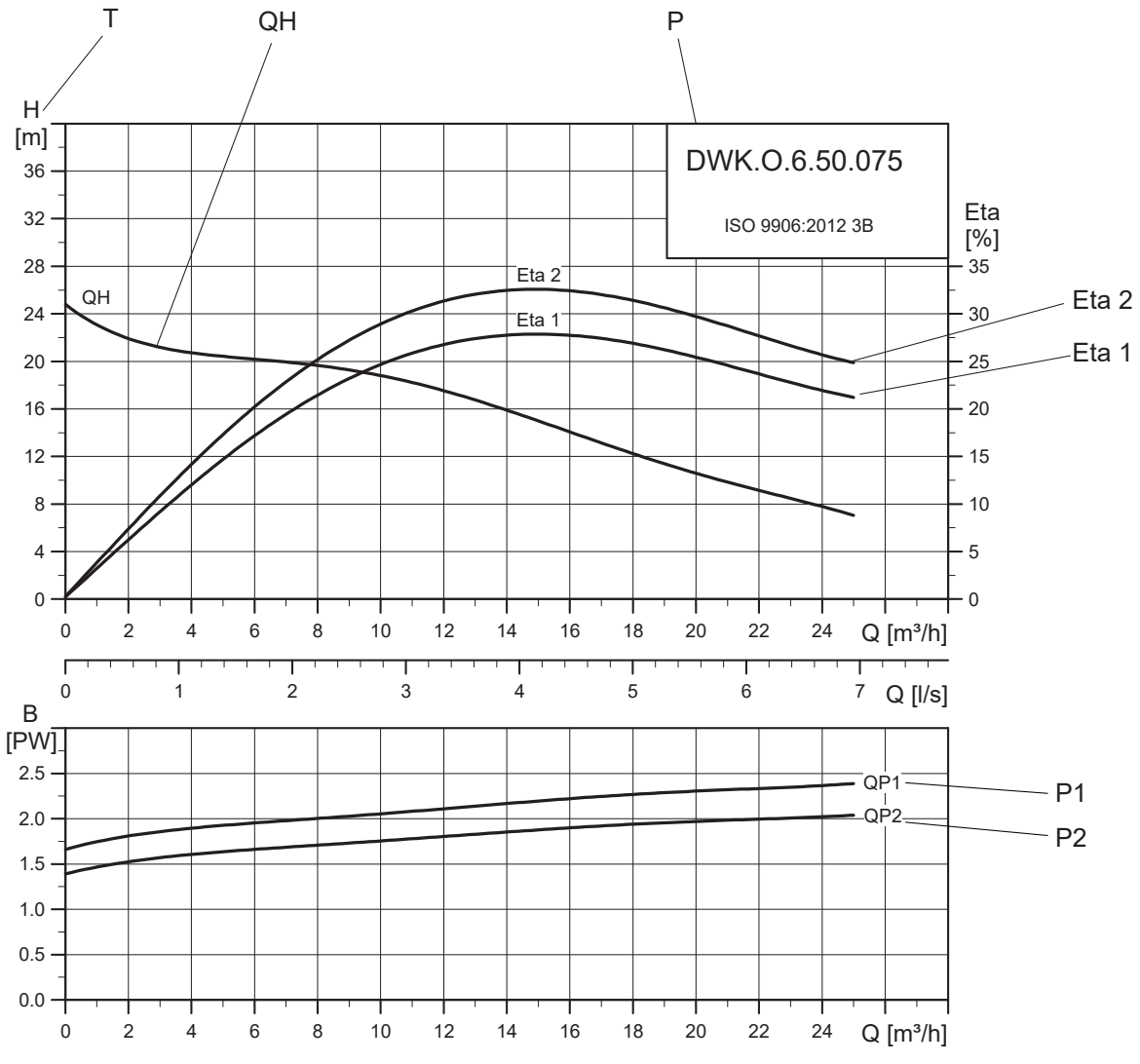


TM044097

Wiring diagram, star-delta starting

9. Performance curves and technical data

9.1 How to read the curve charts



Note: The pumps are tested according to ISO 9906:2012 grade 3B tolerance. Testing equipment and measuring instruments are designed and calibrated according to this standard. The pumps are approved according to tolerances for entire curves, specified in grade 3B.

Pos.	Description
T	Total pump head $H = H_{Total}$
QH	QH curve
P	Pump type
Eta 1, Eta 2	Eta1 and Eta2 curves of the individual pump
P1, P2	Power curves indicating input power, P1, and output power P2, of the pump

9.2 Performance curve conditions

The guidelines below apply to the curves in Performance curves and technical data.

- Tolerances according to: ISO 9906:2012, grade 3B.
- The curves indicate pump performance with different impeller diameters at the rated speed.
- The curves apply to the pumping of airless water at a temperature of 20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- The Eta curves show the hydraulic efficiency of the pump.
  - Eta 1 is the total efficiency (pump + motor).
  - Eta 2 is the hydraulic efficiency (pump).
- In case of other densities than 1000 kg/m^3, the outlet pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m3, motors with higher outputs must be used.

Calculation of total head

The total pump head can be calculated in the following way:

$H_{total} = H_{geo} + H_{stat} + H_{dyn}$

H_{geo} : Height difference between measuring points.

H_{stat}: Differential head between inlet and the outlet side of the pump.

H_{dyn}: Calculated values based on the velocity of the pumped liquid on the inlet and the outlet side of the pump.

9.3 Performance tests

The requested duty point for every pump is tested according to ISO 9906:2012, grade 3B, and without certification.

If pumps are ordered based on the impeller diameter (no requested duty point), they are tested according to ISO 9906:2012, grade 3B.

If more points on the curve are to be checked, individual measurements and certificates are available on request.

9.4 Certificates

Certificates are available on request and have to be confirmed for each order. For more information about different certificates, see *6.1 List of variants*.

9.5 Witness test

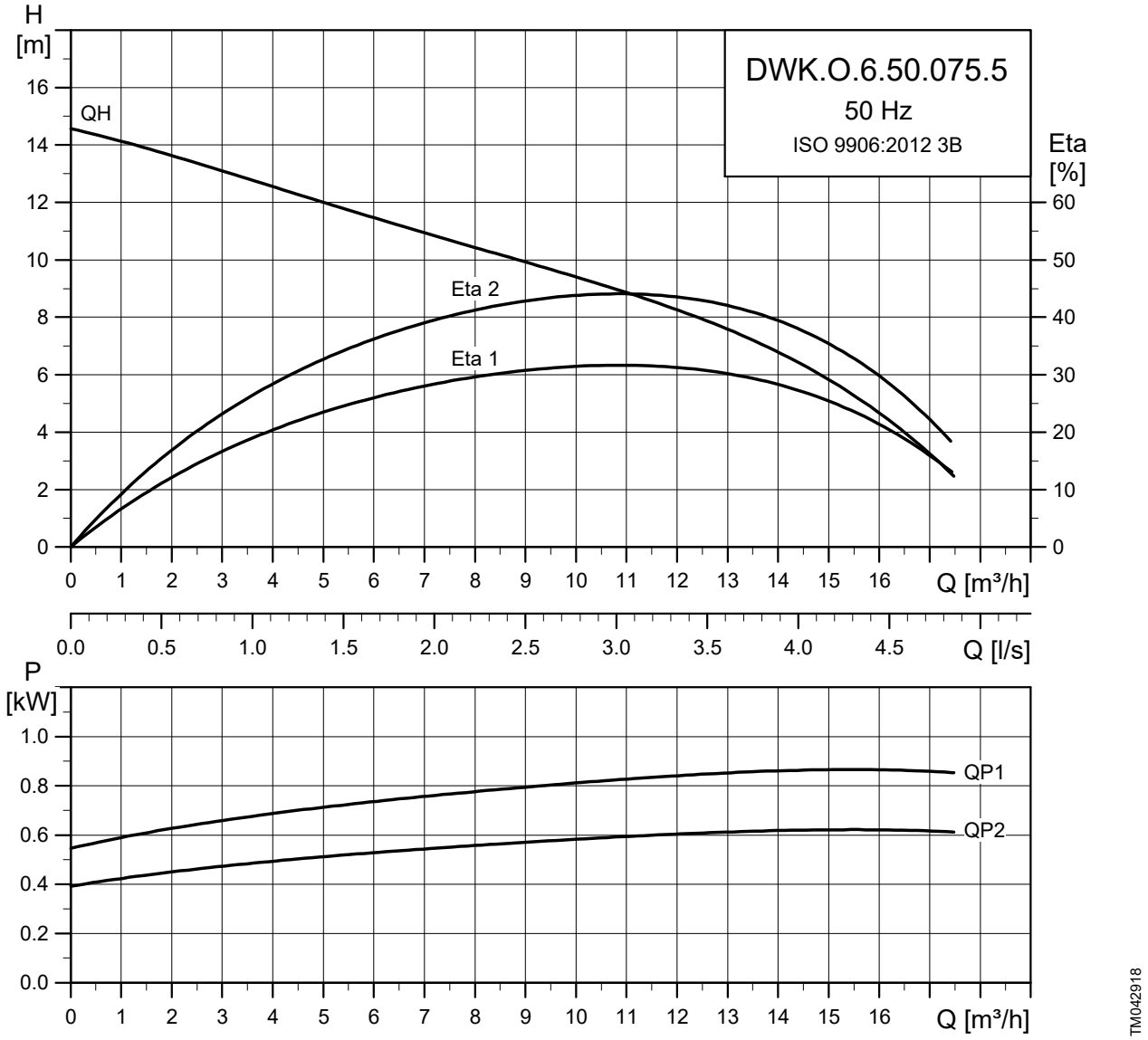
It is possible for the customer to witness the testing procedure according to ISO 9906:2012.

The witness test is not a certificate and will not result in a written statement from Grundfos. The witness is the only guarantee that everything is carried out as prescribed in the testing procedure.

If a witness test is required, it must be stated on the order.

9.6 DWK.O

9.6.1 DWK.O.6.50.075.5



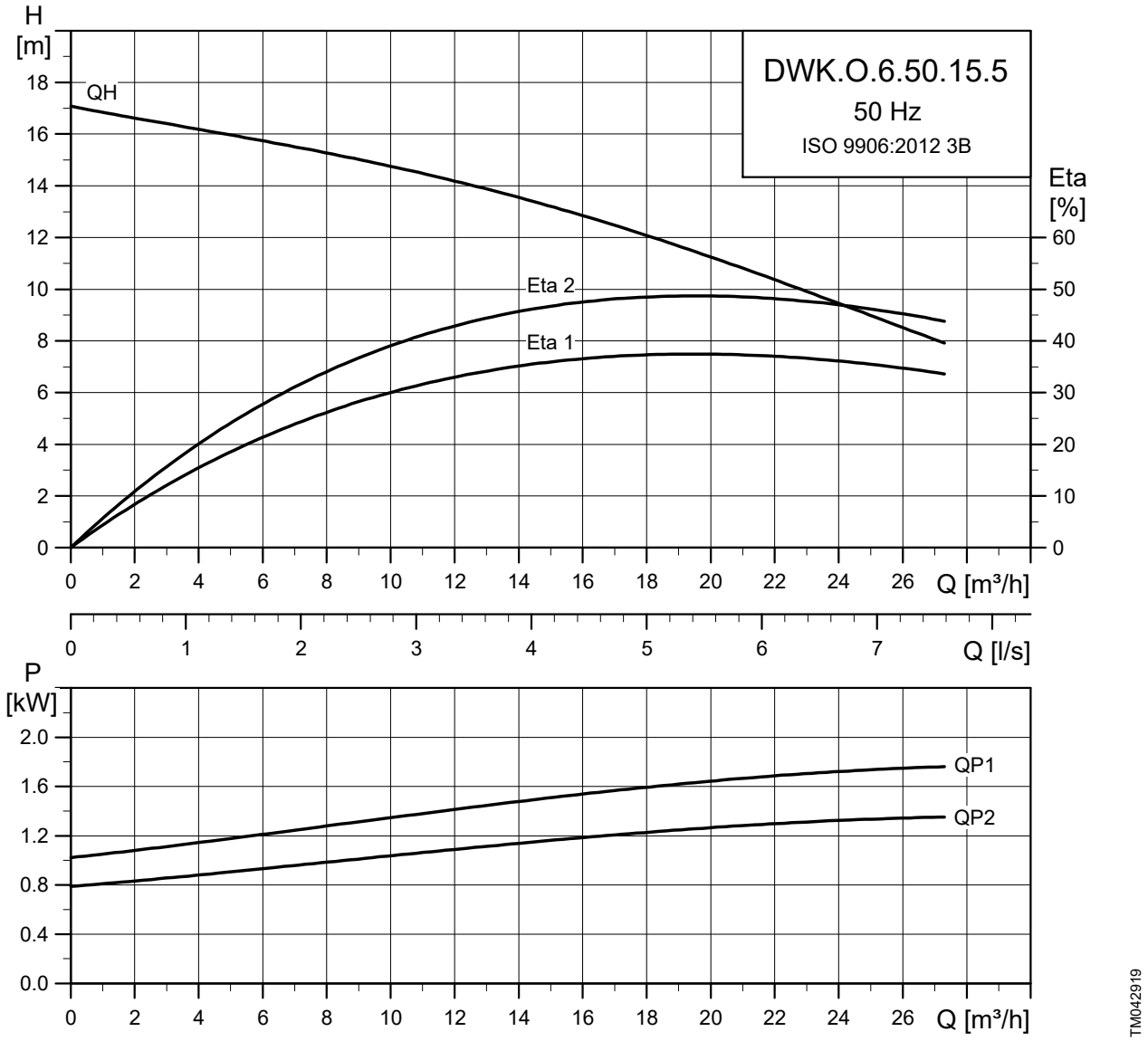
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.075.5.0D	3 × 380-415 V Y	0.75	2850	DOL	1.6	72.5	77.5	79.2	0.72	0.82	0.88	4 × 1.5 + 2 × 1
DWK.O.6.50.075.5.0D.R	3 × 380-415 V Y	0.75	2850	DOL	1.6	72.5	77.5	79.2	0.72	0.82	0.88	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.075.5	Semi-open	6	30	25	68	F	40	4-10

9.6.2 DWK.O.6.50.15.5



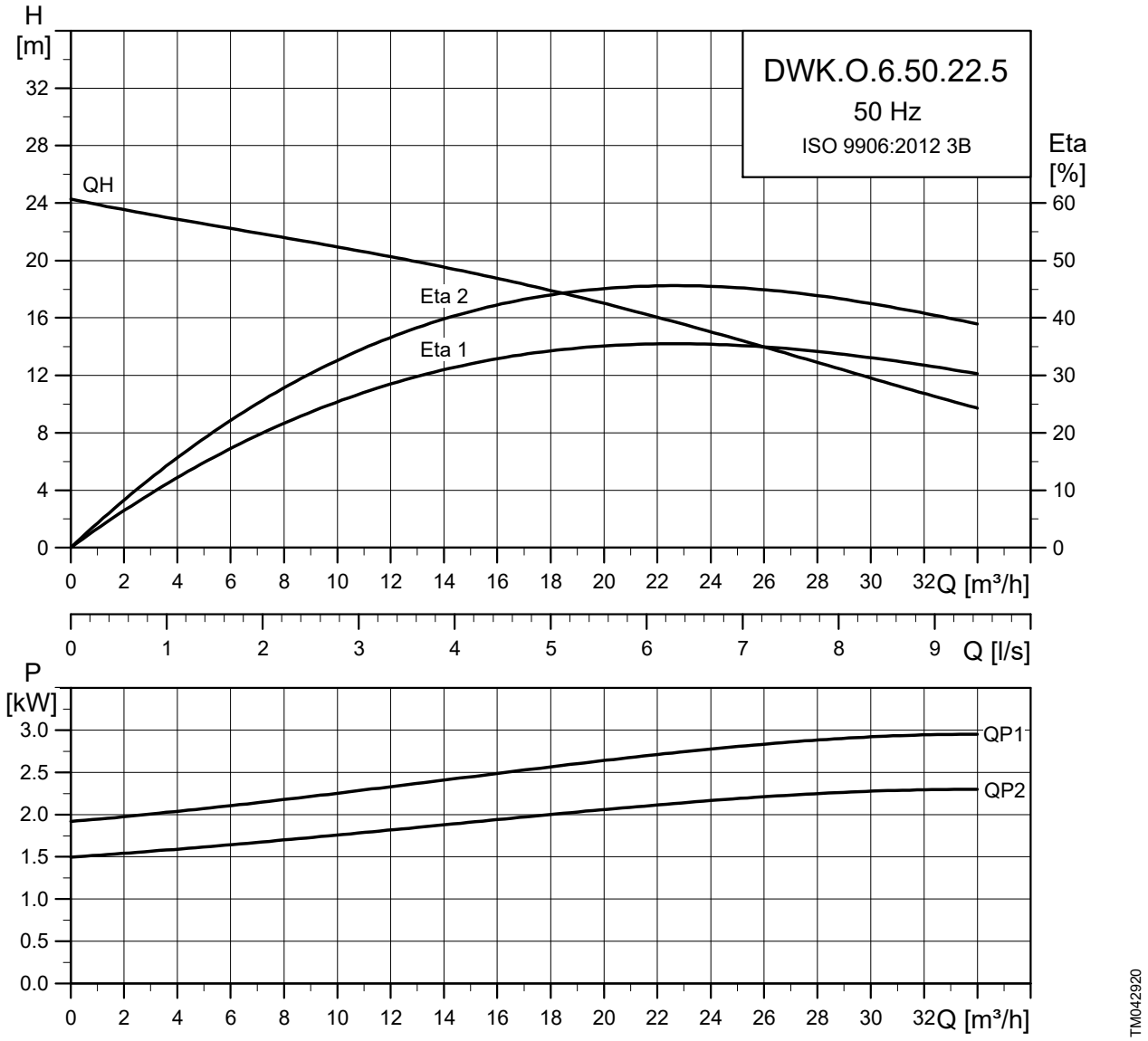
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.15.5.0D	3 × 380-415 V Y	1.5	2850	DOL	3.2	78.0	82.1	83.02	0.68	0.78	0.85	4 × 1.5 + 2 × 1
DWK.O.6.50.15.5.0D.R	3 × 380-415 V Y	1.5	2850	DOL	3.2	78.0	82.1	83.02	0.68	0.78	0.85	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.15.5	Semi-open	6	30	25	68	F	40	4-10

9.6.3 DWK.O.6.50.22.5



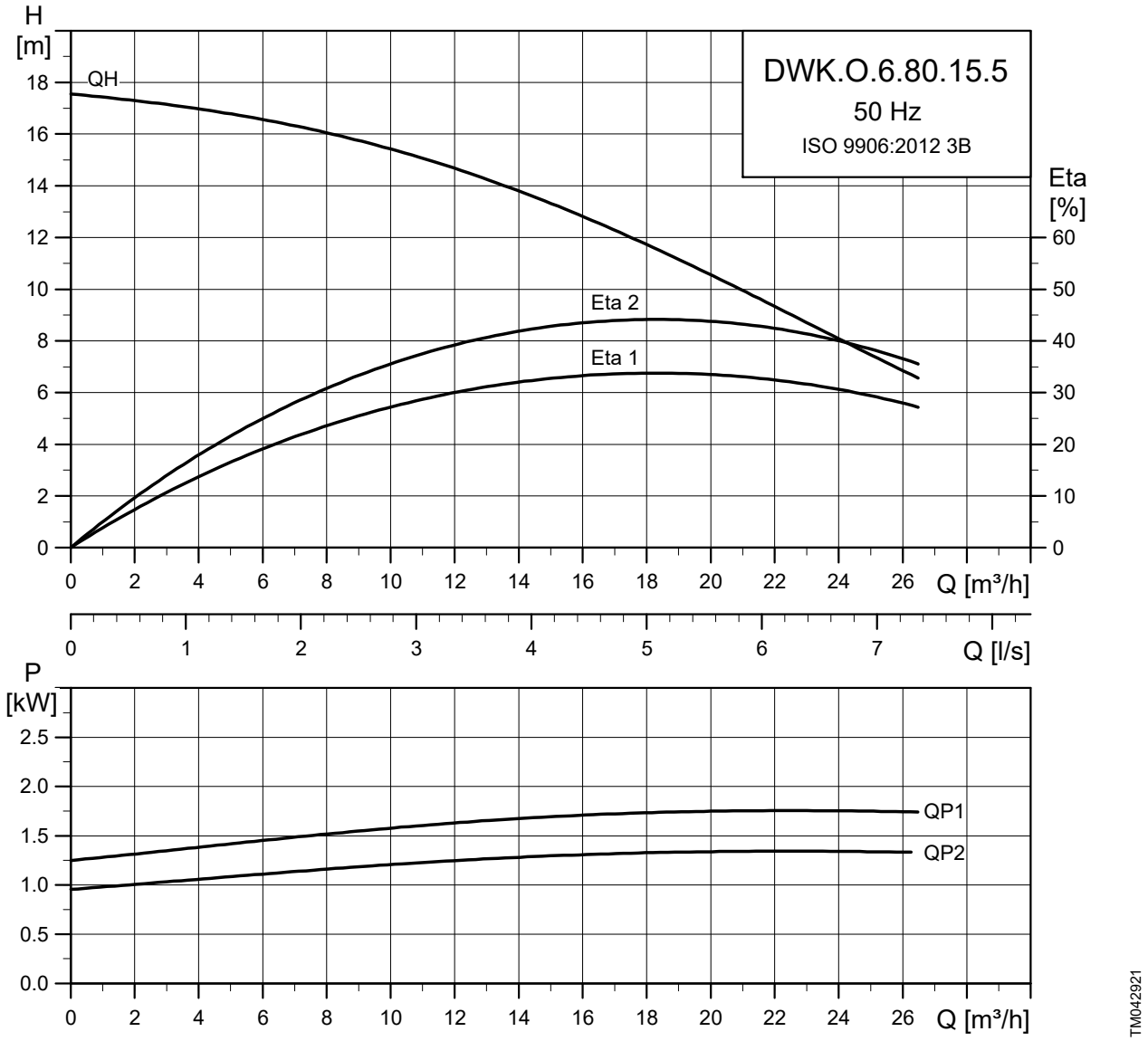
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.22.5.0D	3 × 380-415V Y	2.2	2850	DOL	4.4	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5 + 2 × 1
DWK.O.6.50.22.5.0D.R	3 × 380-415 V Y	2.2	2850	DOL	4.4	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5

Pump data

Pump type	Impeller type	max. solids size [mm]	max. number of starts per hour	max. installation depth [m]	Enclosure class	Insulation class	max. liquid temperature [°C]	pH
DWK.O.6.50.22.5	Semi-open	6	30	25	68	F	40	4-10

9.6.4 DWK.O.6.80.15.5



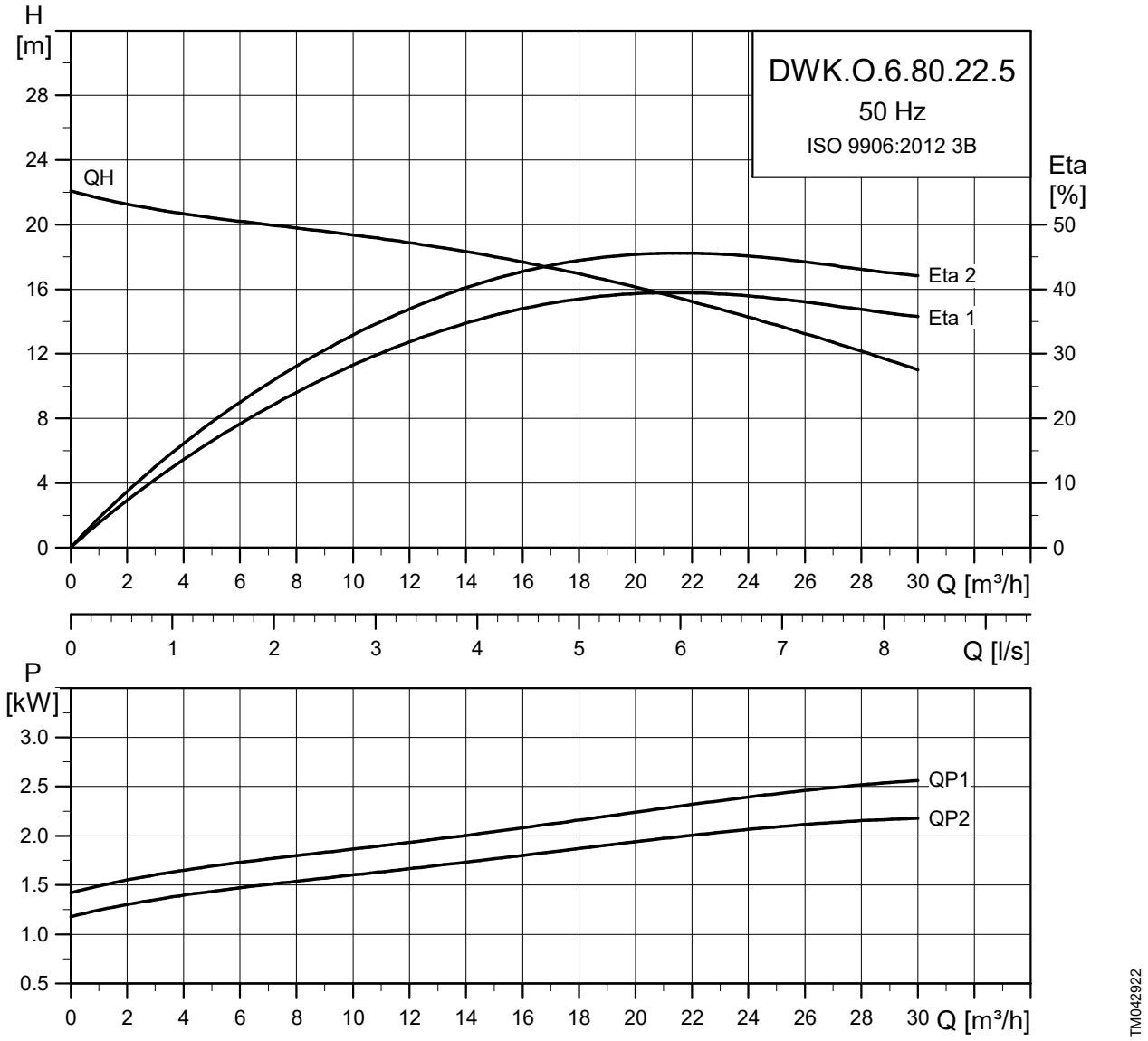
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.15.5.0D	3 × 380-415 V Y	1.5	2850	DOL	3.2	78.0	82.1	83.02	0.68	0.78	0.85	4 × 1.5 + 2 × 1
DWK.O.6.80.15.5.0D.R	3 × 380-415 V Y	1.5	2850	DOL	3.2	78.0	82.1	83.02	0.68	0.78	0.85	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.15.5	Semi-open	6	30	25	68	F	40	4-10

9.6.5 DWK.O.6.80.22.5



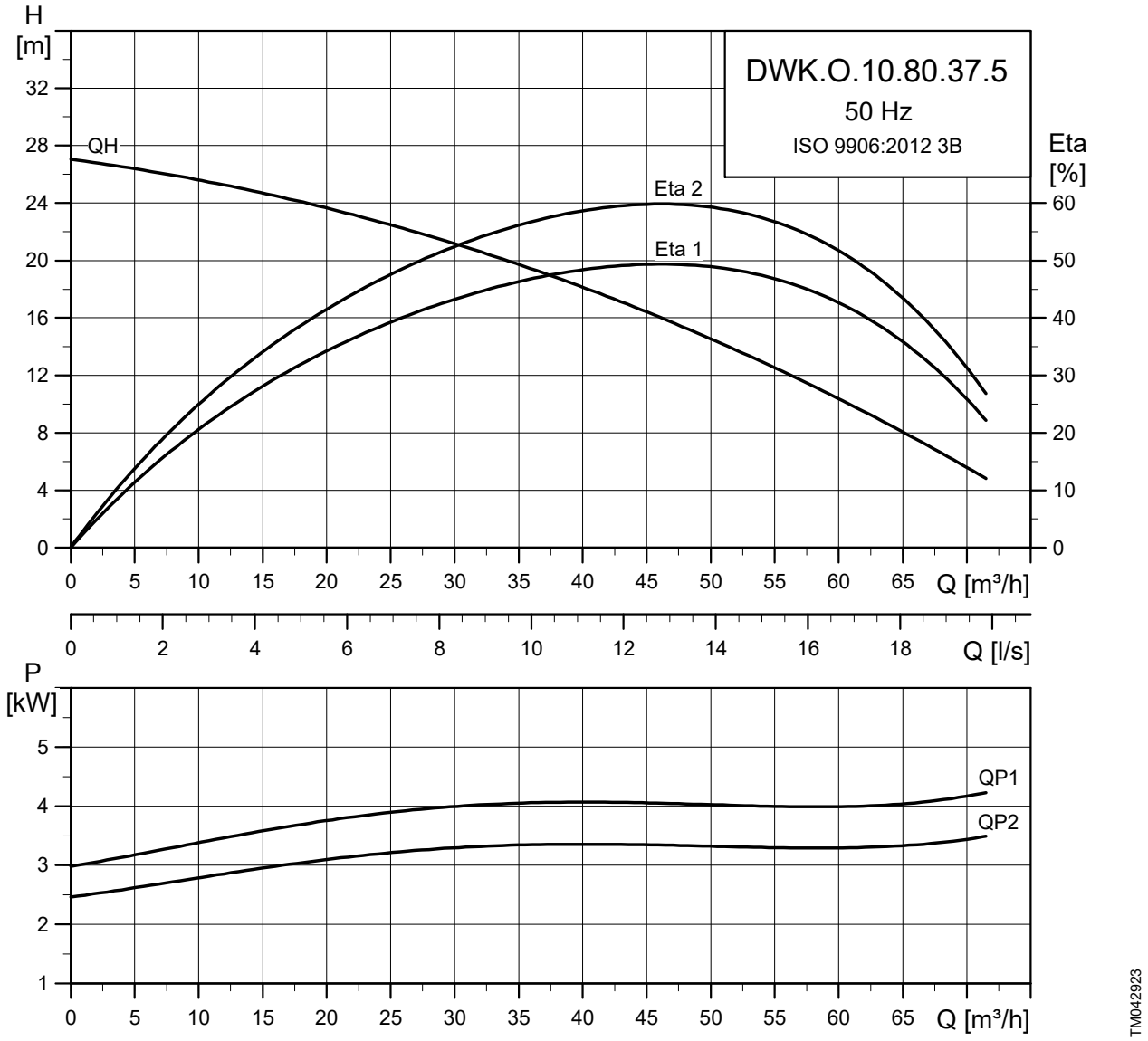
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.22.5.0D	3 × 380-415 V Y	2.2	2850	DOL	4.4	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5 + 2 × 1
DWK.O.6.80.22.5.0D.R	3 × 380-415 V Y	2.2	2850	DOL	4.4	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.22.5	Semi-open	6	30	25	68	F	40	4-10

9.6.6 DWK.O.10.80.37.5



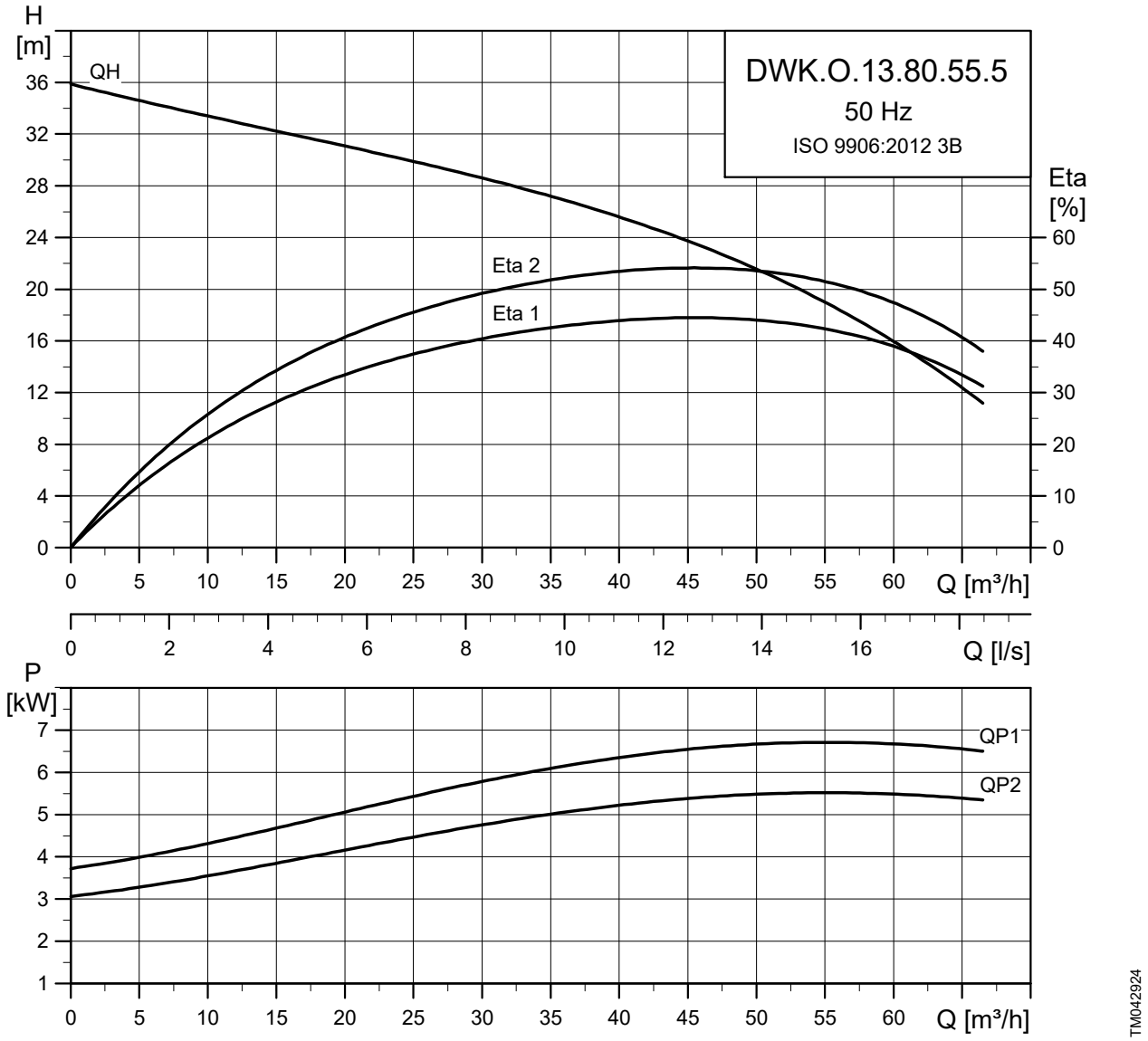
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.80.37.5.0D	3 × 380-415 V Y	3.7	2850	DOL	7.6	85.6	85.5	84.5	0.85	0.90	0.91	4 × 1.5 + 2 × 1
DWK.O.10.80.37.5.0D.R	3 × 380-415 V Y	3.7	2850	DOL	7.6	85.6	85.5	84.5	0.85	0.90	0.91	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.80.37.5	Semi-open	10	30	25	68	F	40	4-10

9.6.7 DWK.O.13.80.55.5



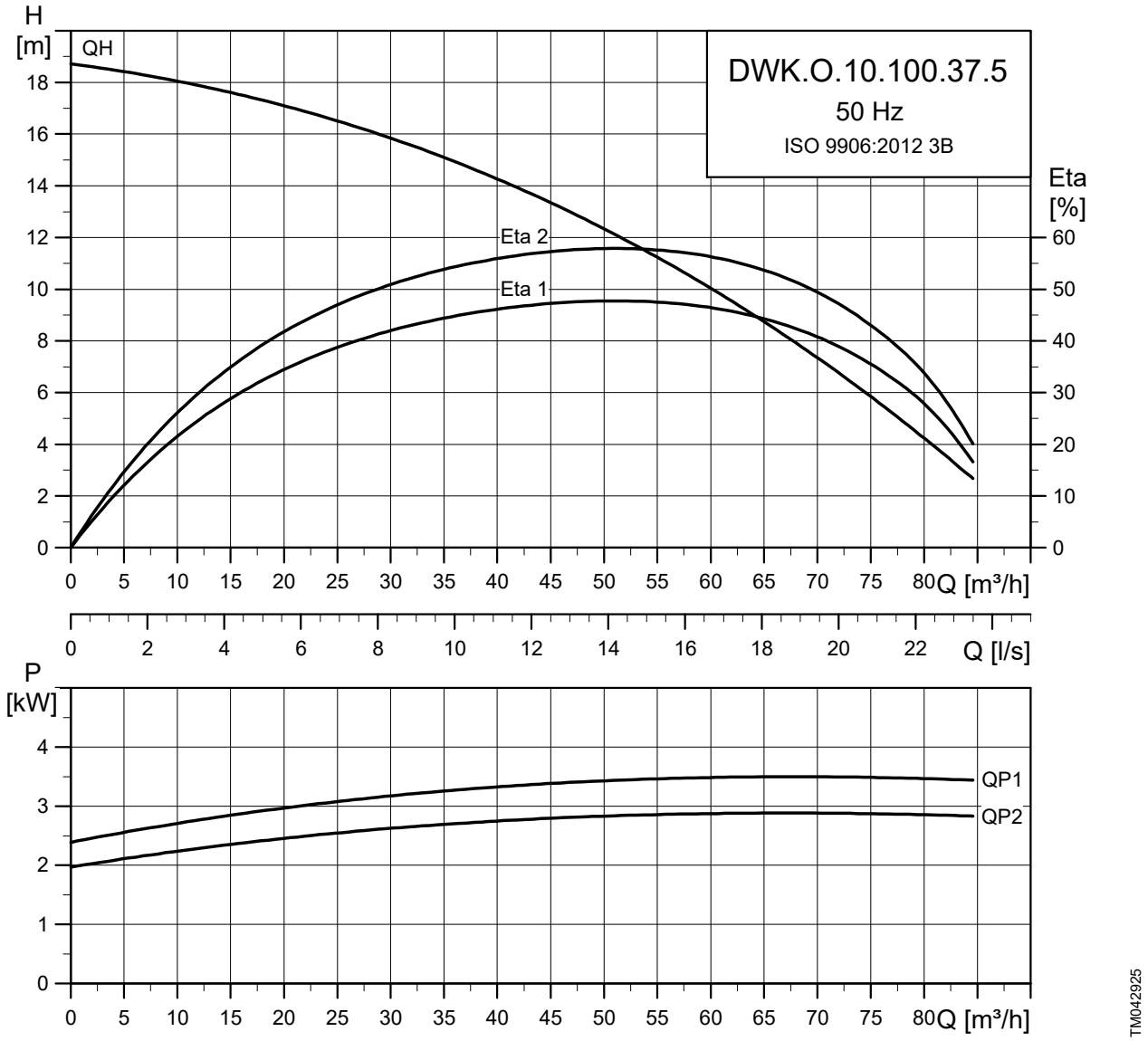
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.80.55.5.0D	3 × 380-415 V Y	5.5	2850	DOL	10.5	88.2	88.8	88.2	0.82	0.88	0.91	4 × 2.5 + 4 × 1
DWK.O.13.80.55.5.0D.R	3 × 380-415 V Y	5.5	2850	DOL	10.5	88.2	88.8	88.2	0.82	0.88	0.91	4 × 2.5 + 4 × 1
DWK.O.13.80.55.5.1D	3 × 380-415 V D	5.5	2850	Y/D	10.5	88.2	88.8	88.2	0.82	0.88	0.91	7 × 4.0 + 4 × 1
DWK.O.13.80.55.5.1D.R	3 × 380-415 V D	5.5	2850	Y/D	10.5	88.2	88.8	88.2	0.82	0.88	0.91	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.80.55.5	Semi-open	13	30	25	68	F	40	4-10

9.6.8 DWK.O.10.100.37.5



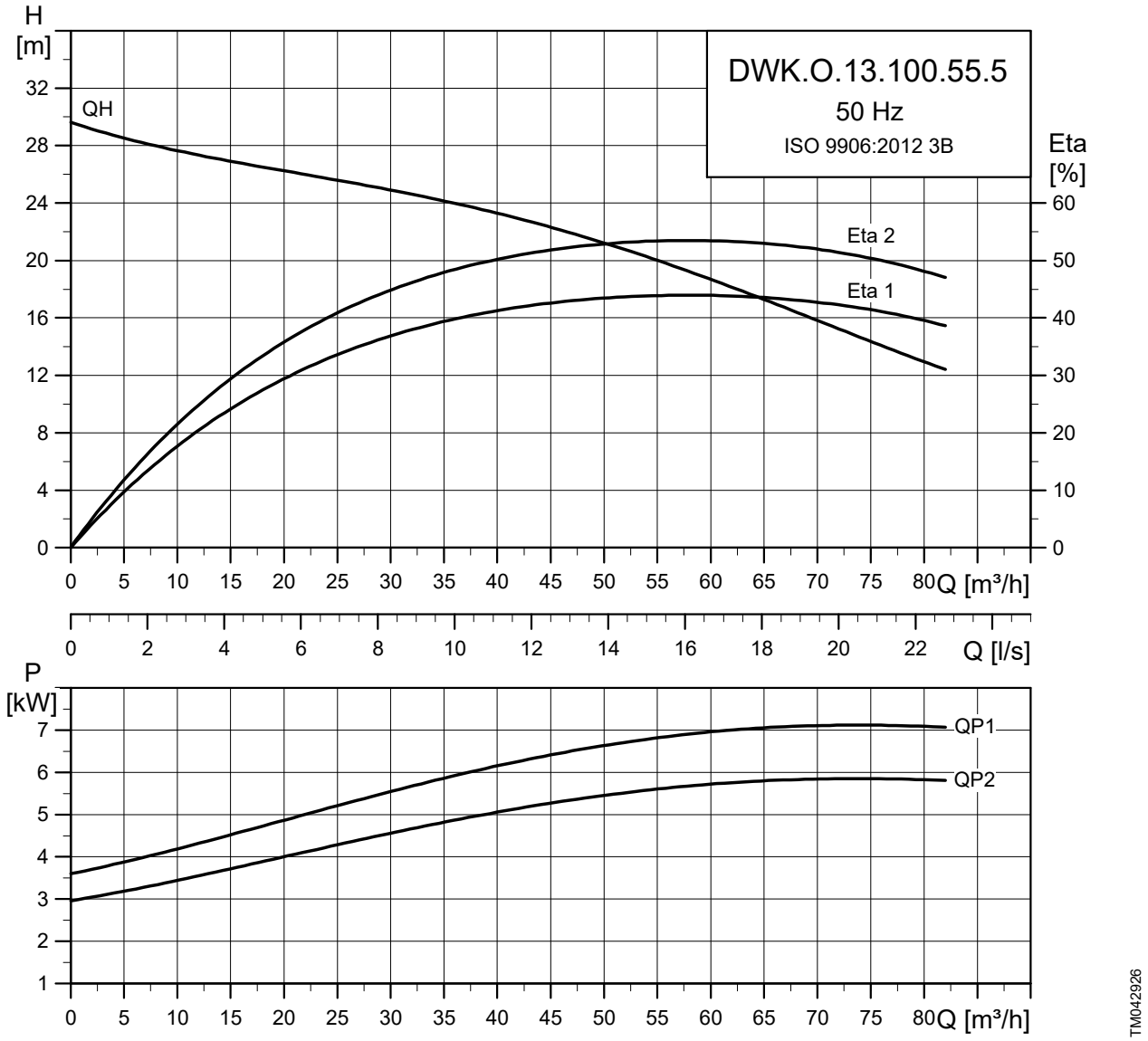
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.100.37.5.0D	3 × 380-415 V Y	3.7	2850	DOL	7.6	85.6	85.5	84.5	0.85	0.90	0.91	4 × 1.5 + 2 × 1
DWK.O.10.100.37.5.0D.R	3 × 380-415 V Y	3.7	2850	DOL	7.6	85.6	85.5	84.5	0.85	0.90	0.91	4 × 1.5

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.100.37	Semi-open	10	30	25	68	F	40	4-10

9.6.9 DWK.O.13.100.55.5



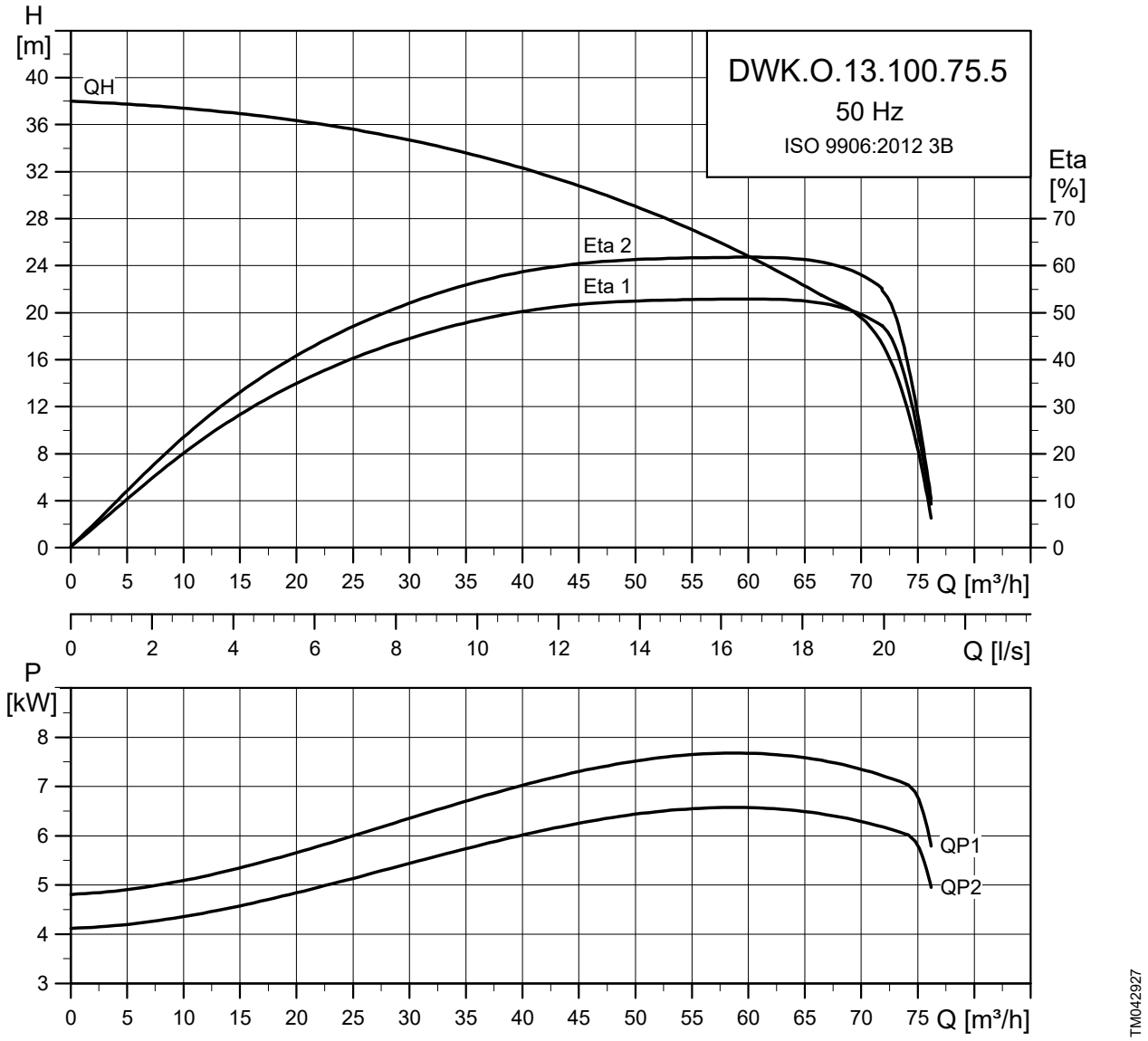
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.55.5.0D	3 × 380-415 V Y	5.5	2850	DOL	14.1	88.2	88.8	88.2	0.82	0.88	0.91	4 × 2.5 + 4 × 1
DWK.O.13.100.55.5.0D.R	3 × 380-415 V Y	5.5	2850	DOL	14.1	88.2	88.8	88.2	0.82	0.88	0.91	4 × 2.5 + 4 × 1
DWK.O.13.100.55.5.1D	3 × 380-415 V D	5.5	2850	Y/D	14.1	88.2	88.8	88.2	0.82	0.88	0.91	7 × 4.0 + 4 × 1
DWK.O.13.100.55.5.1D.R	3 × 380-415 V D	5.5	2850	Y/D	14.1	88.2	88.8	88.2	0.82	0.88	0.91	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.55	Semi-open	13	30	25	68	F	40	4-10

9.6.10 DWK.O.13.100.75.5



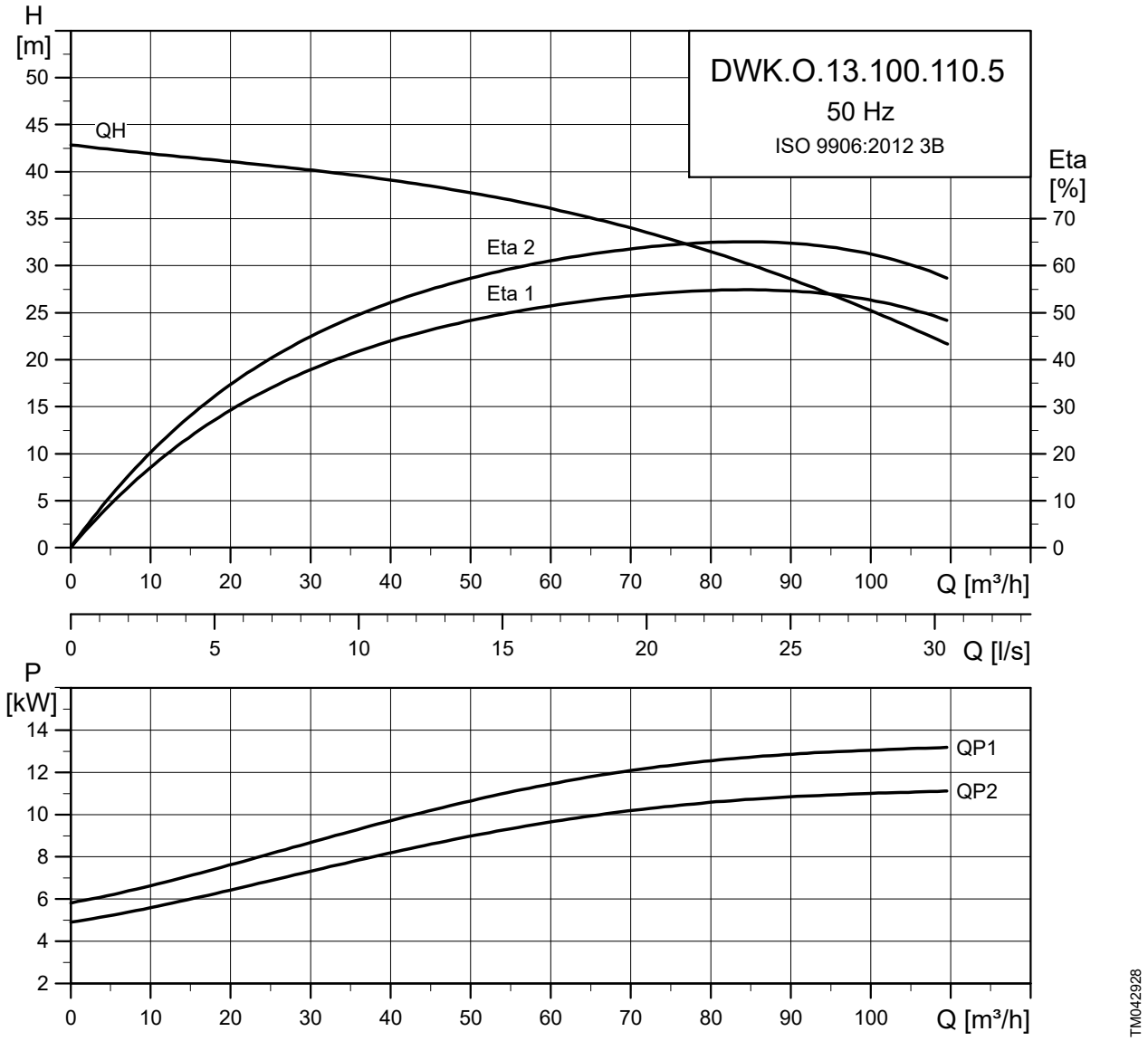
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.75.5.0D	3 × 380-415 V Y	7.5	2850	DOL	14.1	88.9	59.2	88.3	0.86	0.905	0.92	4 × 4.0 + 4 × 1
DWK.O.13.100.75.5.0D.R	3 × 380-415 V Y	7.5	2850	DOL	14.1	88.9	59.2	88.3	0.86	0.905	0.92	4 × 4.0 + 4 × 1
DWK.O.13.100.75.5.1D	3 × 380-415 V D	7.5	2850	Y/D	14.1	88.9	59.2	88.3	0.86	0.905	0.92	7 × 4.0 + 4 × 1
DWK.O.13.100.75.5.1D.R	3 × 380-415 V D	7.5	2850	Y/D	14.1	88.9	59.2	88.3	0.86	0.905	0.92	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.75	Semi-open	13	30	25	68	F	40	4-10

9.6.11 DWK.O.13.100.110.5



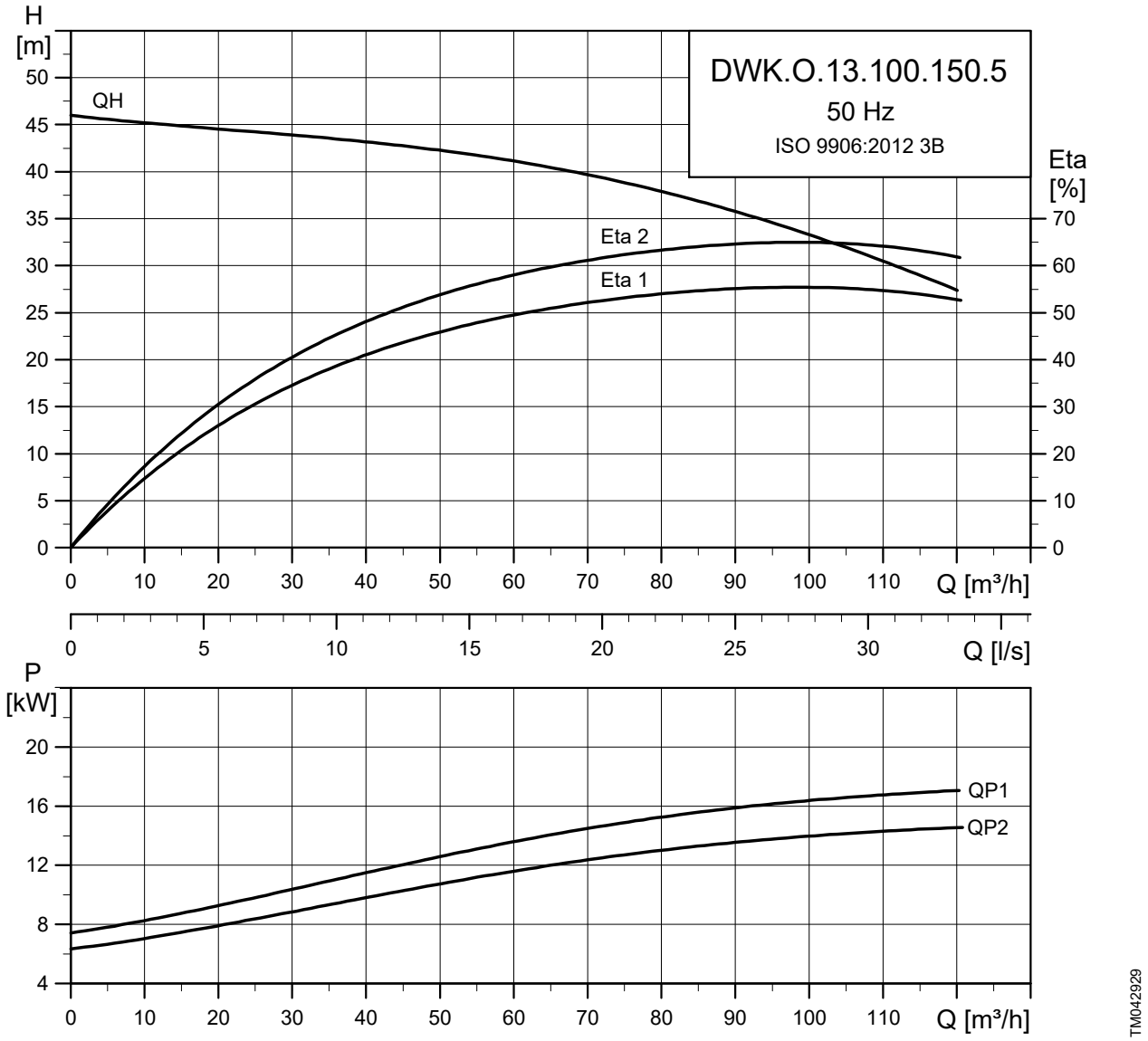
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.110.5.0D	3 × 380-415 V Y	11	2850	DOL	20.4	89.2	90.0	89.5	0.87	0.90	0.91	4 × 6.0 + 4 × 1
DWK.O.13.100.110.5.0D.R	3 × 380-415 V Y	11	2850	DOL	20.4	89.2	90.0	89.5	0.87	0.90	0.91	4 × 6.0 + 4 × 1
DWK.O.13.100.110.5.1D	3 × 380-415 V D	11	2850	Y/D	20.4	89.2	90.0	89.5	0.87	0.90	0.91	7 × 4.0 + 4 × 1
DWK.O.13.100.110.5.1D.R	3 × 380-415 V D	11	2850	Y/D	20.4	89.2	90.0	89.5	0.87	0.90	0.91	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.110.5	Semi-open	13	30	25	68	F	40	4-10

9.6.12 DWK.O.13.100.150.5



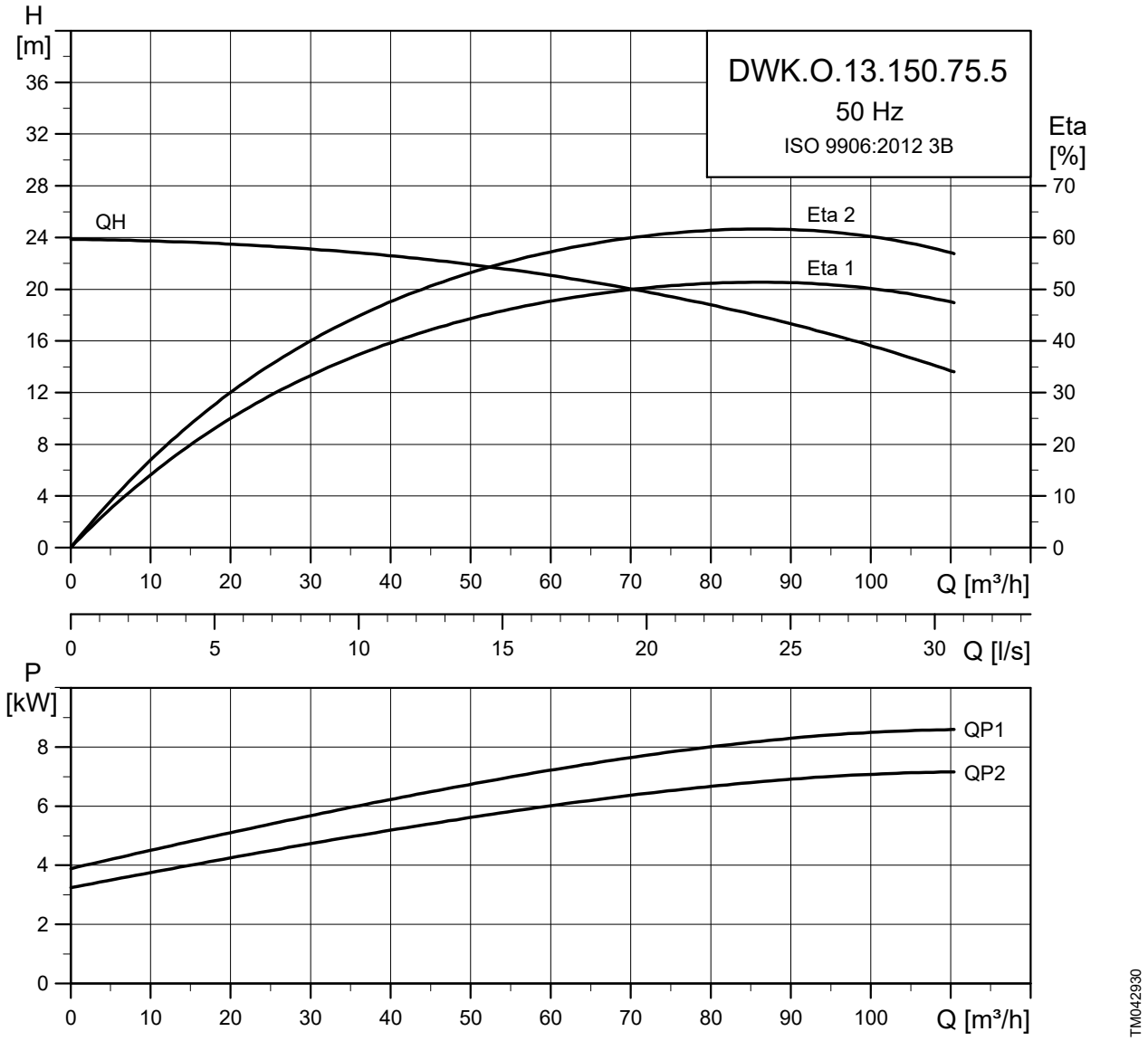
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.150.5.0D	3 × 380-415 V Y	15	2850	DOL	27.8	89.5	90.3	89.8	0.88	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.100.150.5.0D.R	3 × 380-415 V Y	15	2850	DOL	27.8	89.5	90.3	89.8	0.88	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.100.150.5.1D	3 × 380-415 V D	15	2850	Y/D	27.8	89.5	90.3	89.8	0.88	0.91	0.92	7 × 4.0 + 4 × 1
DWK.O.13.100.150.5.1D.R	3 × 380-415 V D	15	2850	Y/D	27.8	89.5	90.3	89.8	0.88	0.91	0.92	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.150	Semi-open	13	30	25	68	F	40	4-10

9.6.13 DWK.O.13.150.75.5



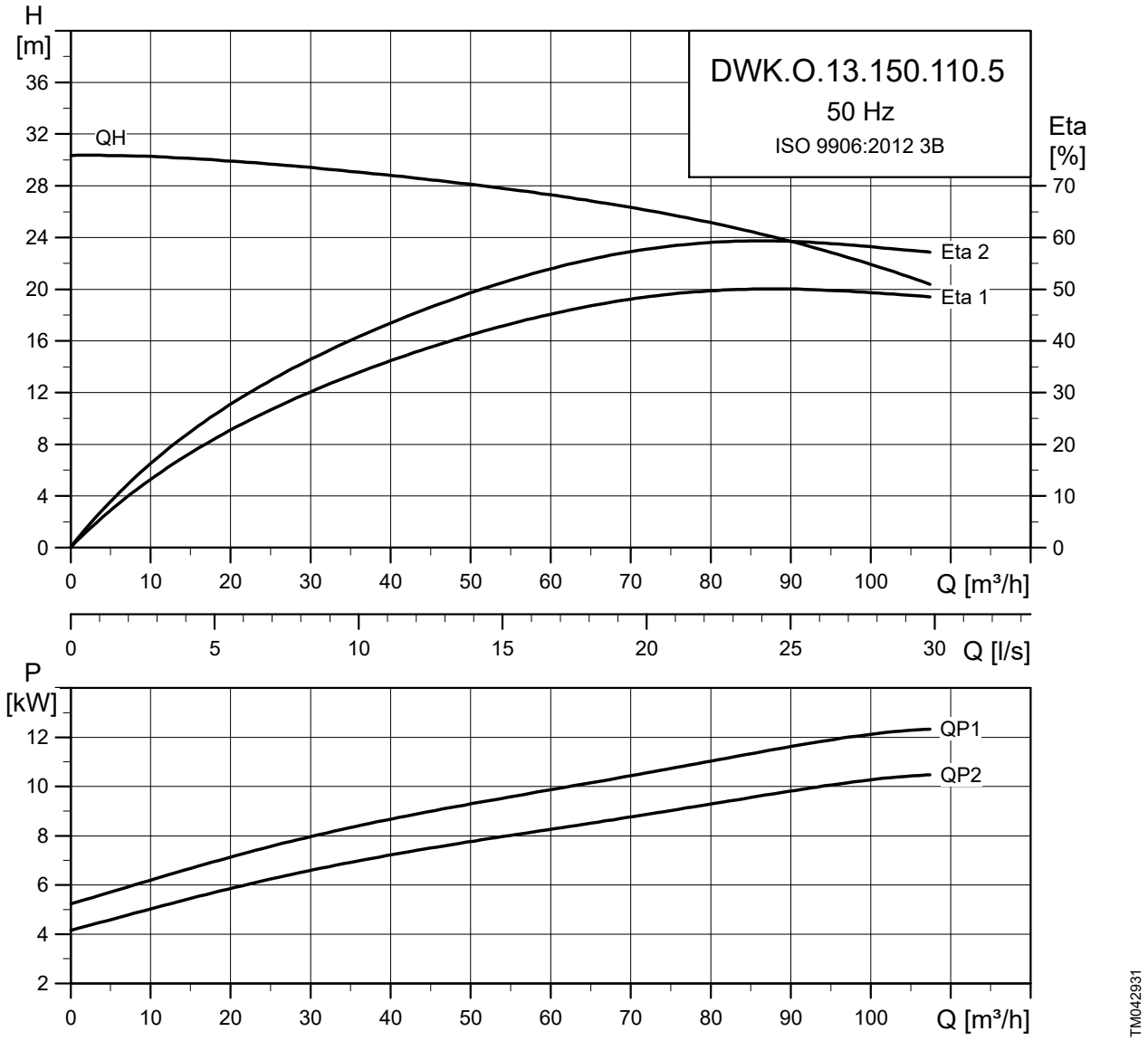
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.75.5.0D	3 × 380-415 V Y	7.5	2850	DOL	14.1	88.9	89.2	88.3	0.86	0.905	0.92	4 × 4.0 + 4 × 1
DWK.O.13.150.75.5.0D.R	3 × 380-415 V Y	7.5	2850	DOL	14.1	88.9	89.2	88.3	0.86	0.905	0.92	4 × 4.0 + 4 × 1
DWK.O.13.150.75.5.1D	3 × 380-415 V D	7.5	2850	Y/D	14.1	88.9	89.2	88.3	0.86	0.905	0.92	7 × 4.0 + 4 × 1
DWK.O.13.150.75.5.1D.R	3 × 380-415 V D	7.5	2850	Y/D	14.1	88.9	89.2	88.3	0.86	0.905	0.92	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.75	Semi-open	13	30	25	68	F	40	4-10

9.6.14 DWK.O.13.150.110.5



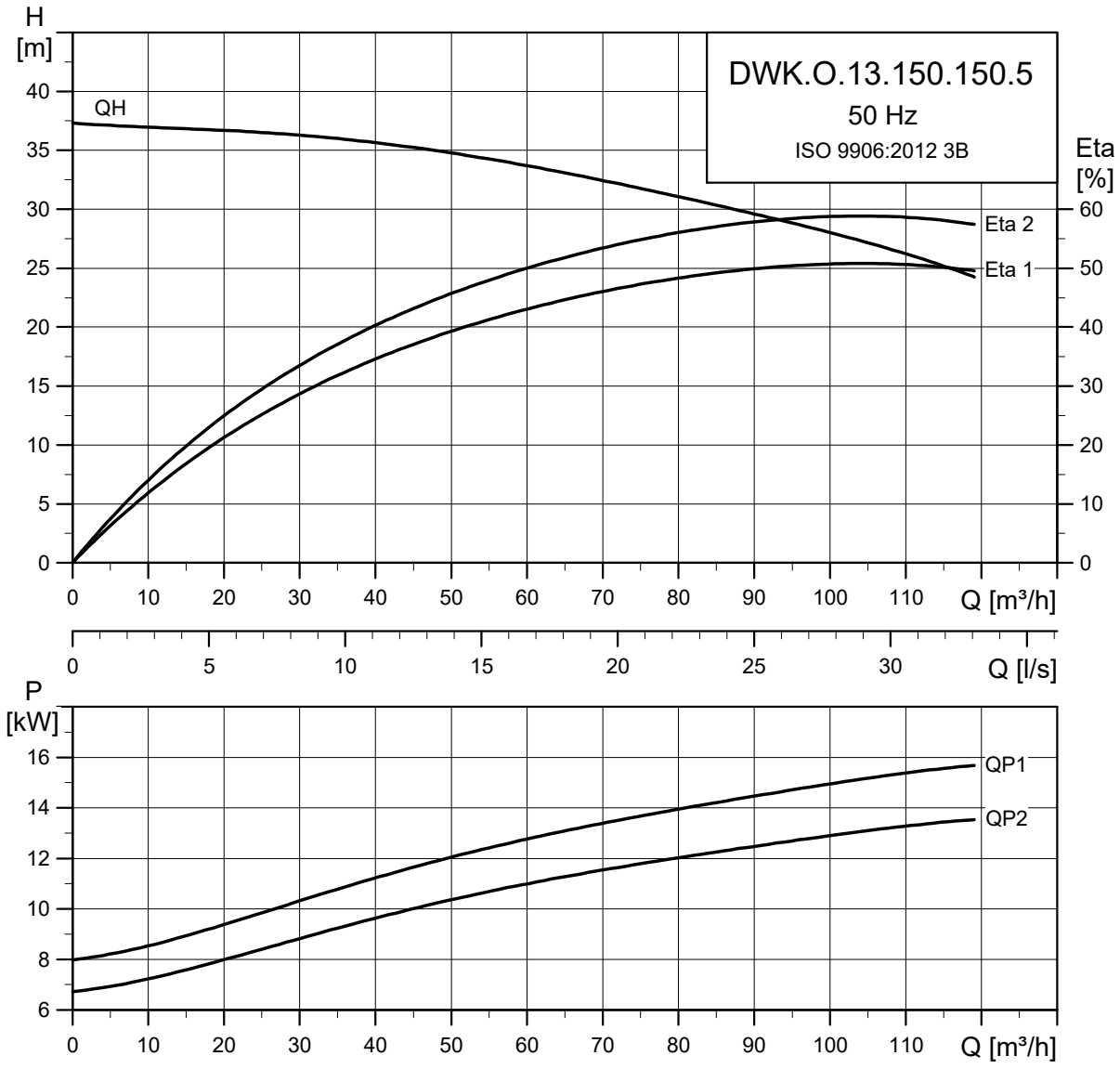
Electrical data

Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.110.5.0D	3 × 380-415 V Y	11	2850	DOL	20.4	89.2	90.0	89.5	0.87	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.150.110.5.0D.R	3 × 380-415 V Y	11	2850	DOL	20.4	89.2	90.0	89.5	0.87	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.150.110.5.1D	3 × 380-415 V D	11	2850	Y/D	20.4	89.2	90.0	89.5	0.87	0.91	0.92	7 × 4.0 + 4 × 1
DWK.O.13.150.110.5.1D.R	3 × 380-415 V D	11	2850	Y/D	20.4	89.2	90.0	89.5	0.87	0.91	0.92	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.110	Semi-open	13	30	25	68	F	40	4-10

9.6.15 DWK.O.13.150.150.5



Electrical data

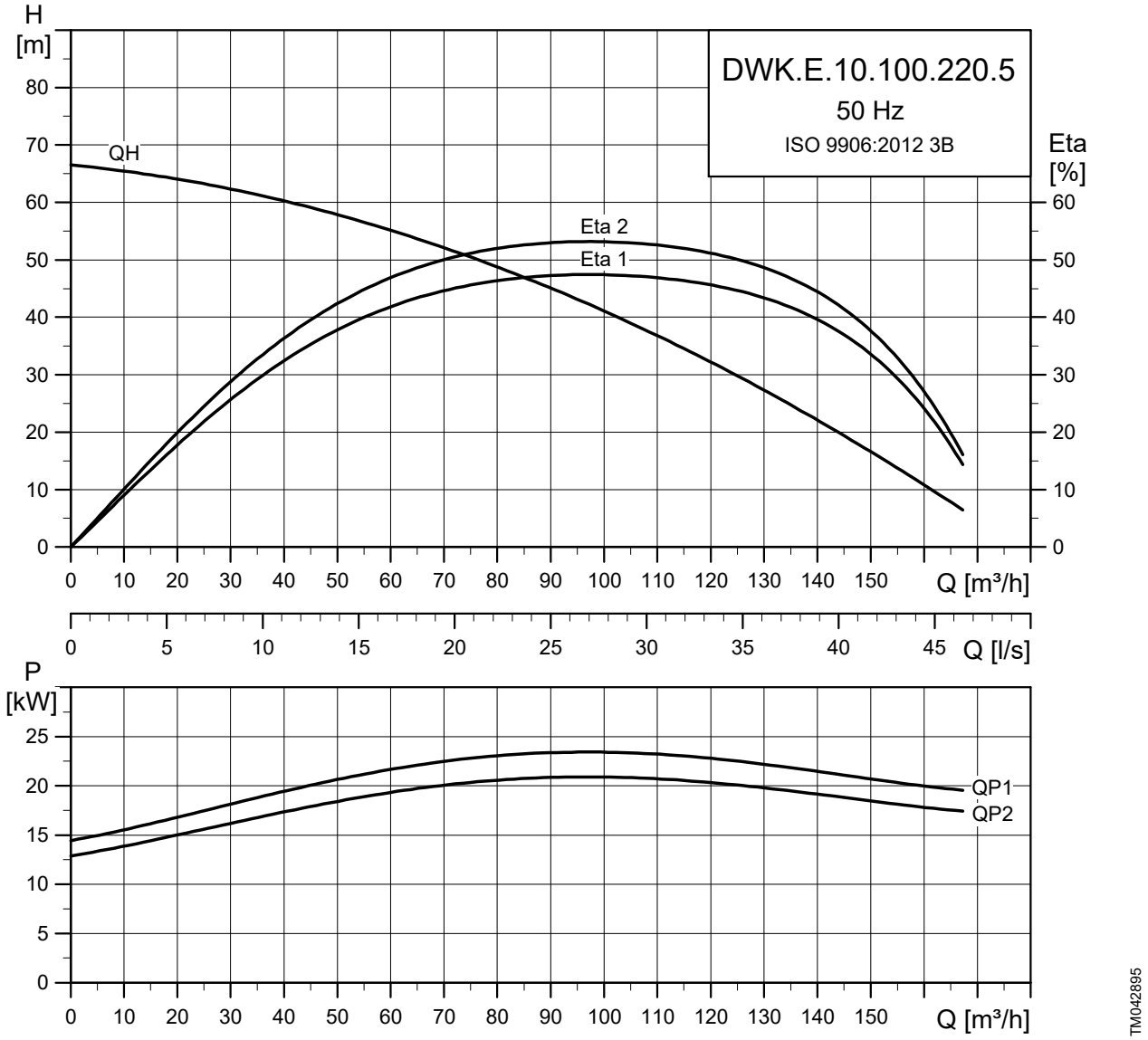
Pump type	Voltage [V]	P2 [kW]	min^{-1}	Starting method	I_N	η_{motor}[%]			Cos φ			Cable [mm^2]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.150.5.0D	3 × 380-415 V Y	15	2850	DOL	27.8	89.5	90.3	89.8	0.88	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.150.150.5.0D.R	3 × 380-415 V Y	15	2850	DOL	27.8	89.5	90.3	89.8	0.88	0.91	0.92	4 × 6.0 + 4 × 1
DWK.O.13.150.150.5.1D	3 × 380-415 V D	15	2850	Y/D	27.8	89.5	90.3	89.8	0.88	0.91	0.92	7 × 4.0 + 4 × 1
DWK.O.13.150.150.5.1D.R	3 × 380-415 V D	15	2850	Y/D	27.8	89.5	90.3	89.8	0.88	0.91	0.92	7 × 4.0 + 4 × 1

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.150	Semi-open	13	30	25	68	F	40	4-10

9.7 DWK.E

9.7.1 DWK.E.10.100.220.5

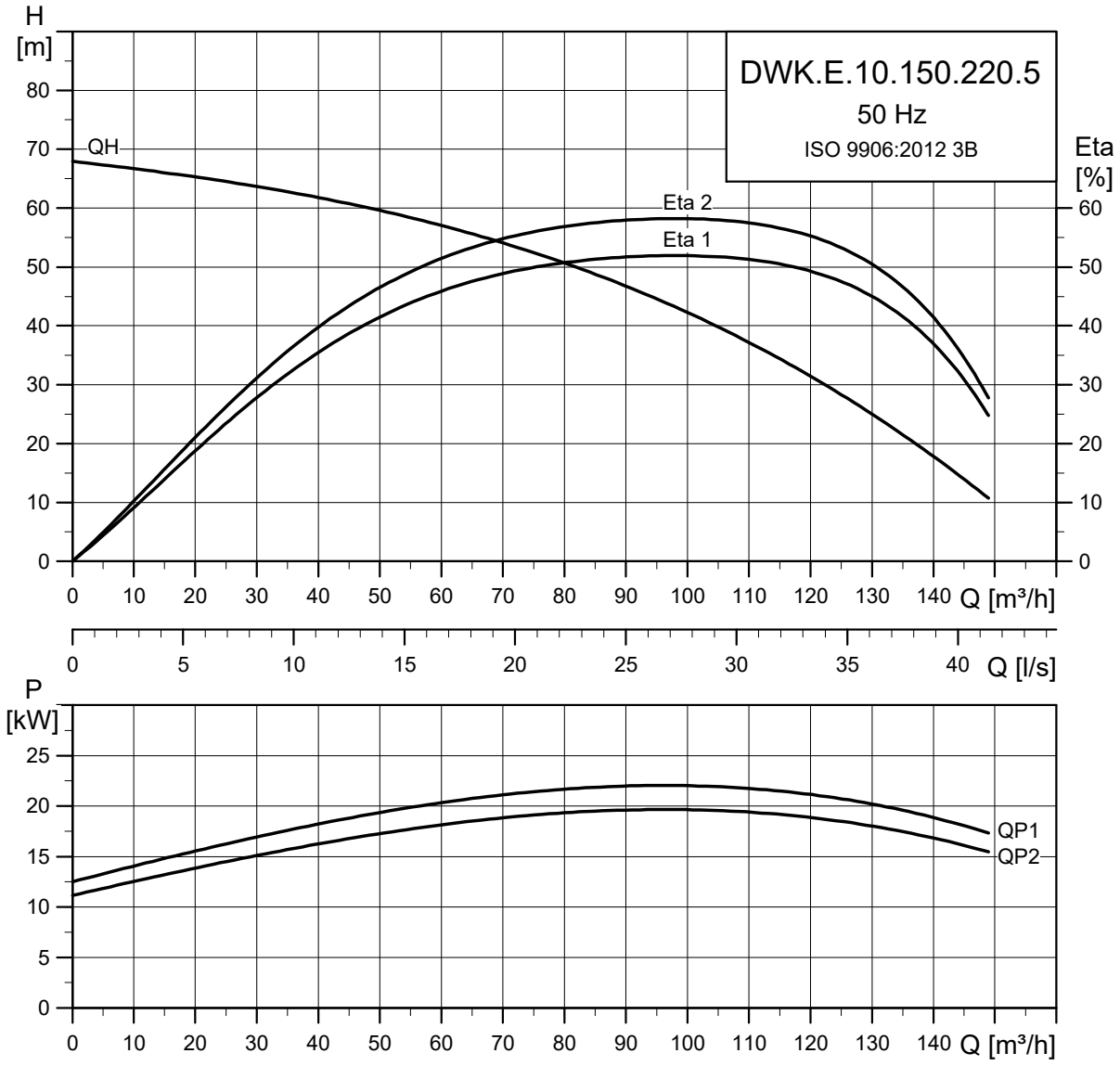


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.100.220.5.1D	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5
DWK.E.10.100.220.5.1D.R	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5
DWK.E.10.100.220.5.1D.A	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.220	Enclosed	10	15	25	68	F	40	4-10

9.7.2 DWK.E.10.150.220.5



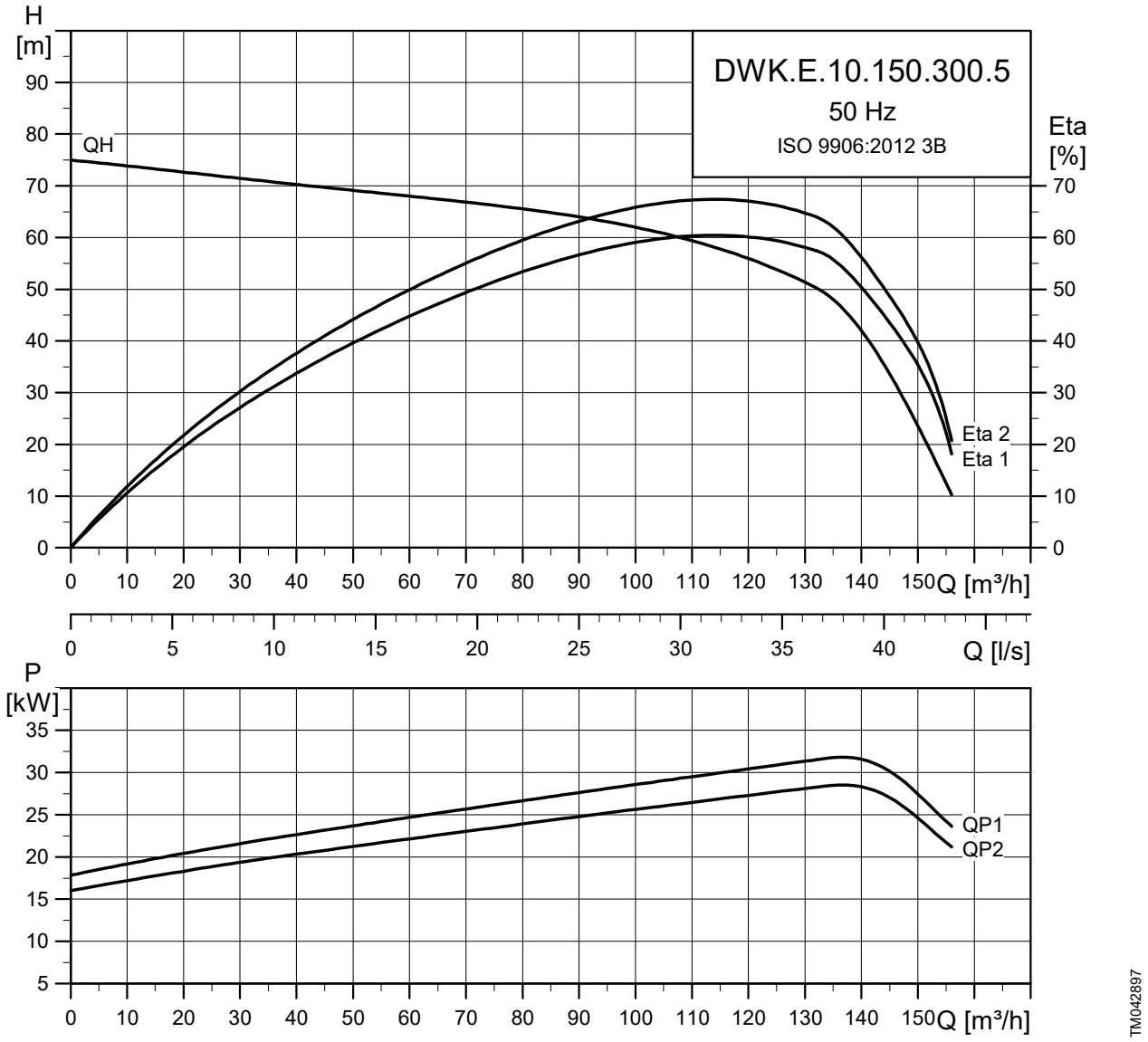
TM042896

Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.220.5.1D	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5
DWK.E.10.150.220.5.1D.R	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5
DWK.E.10.150.220.5.1D.A	3 × 380-415 V D	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.220	Enclosed	10	15	25	68	F	40	4-10

9.7.3 DWK.E.10.150.300.5

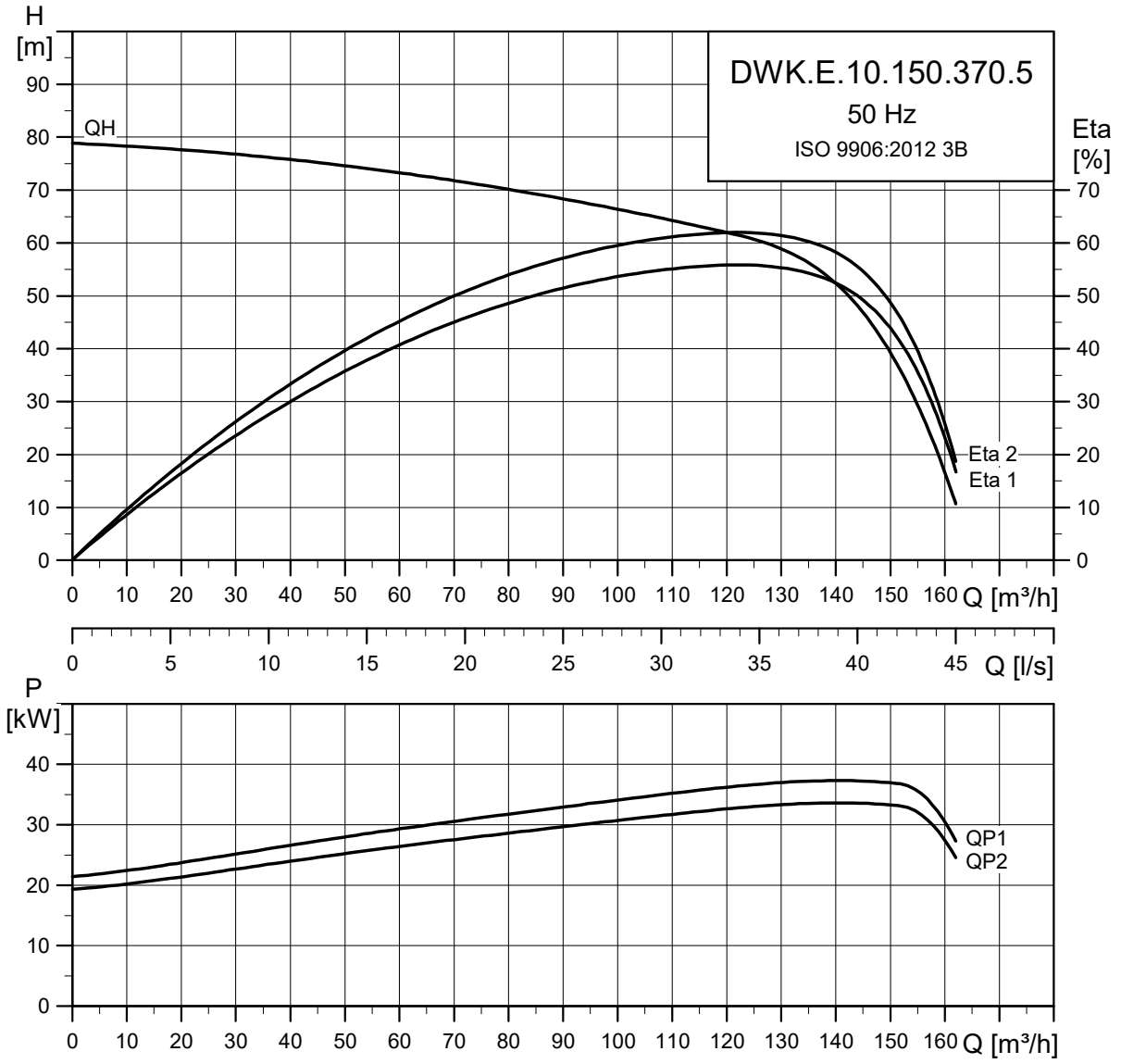


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.300.5.1D	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.150.300.5.1D.R	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.150.300.5.1D.A	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.300	Enclosed	10	15	25	68	F	40	4-10

9.7.4 DWK.E.10.150.370.5

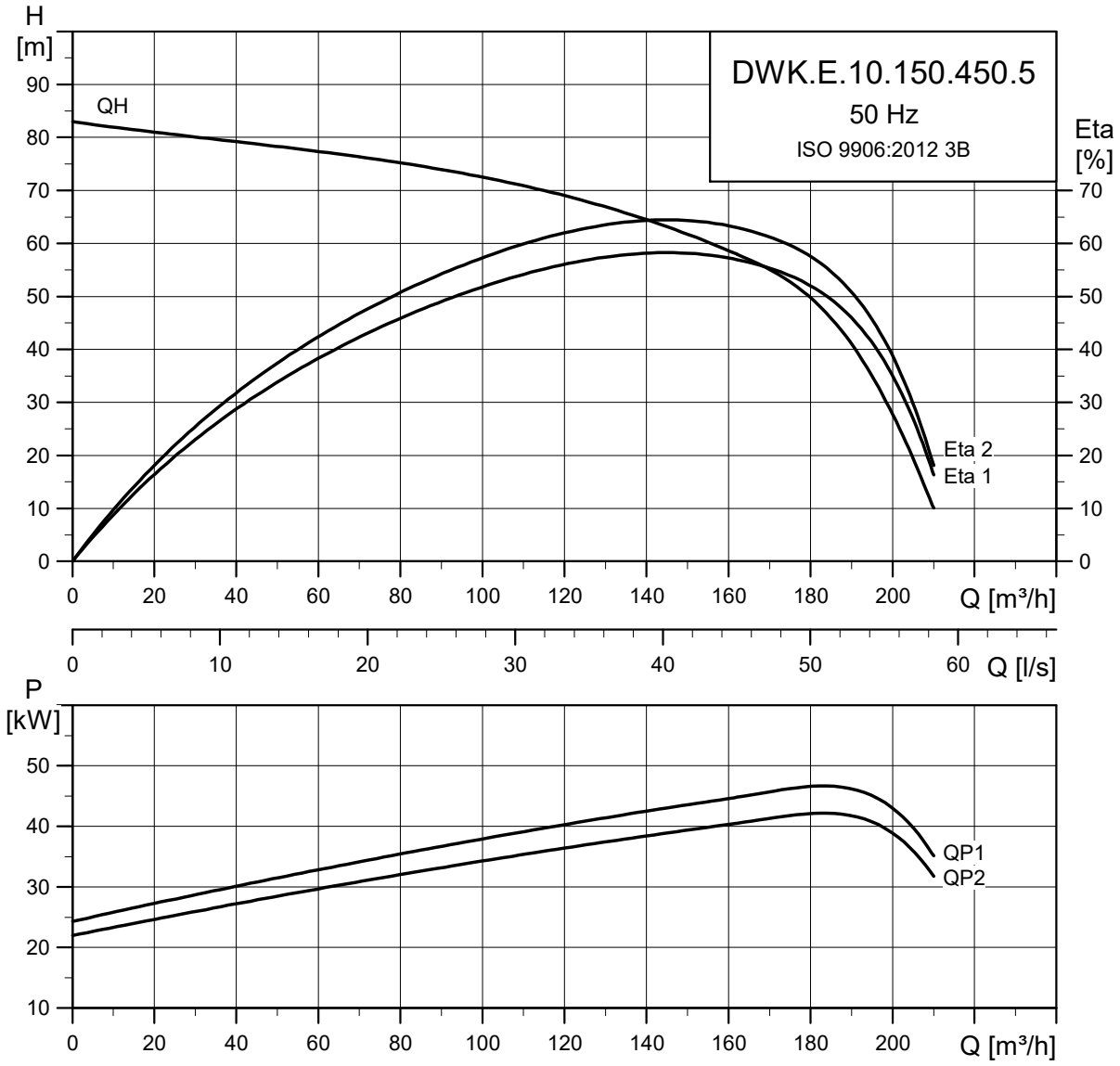


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.370.5.1D	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.150.370.5.1D.R	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.150.370.5.1D.A	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.370	Enclosed	10	15	25	68	F	40	4-10

9.7.5 DWK.E.10.150.450.5



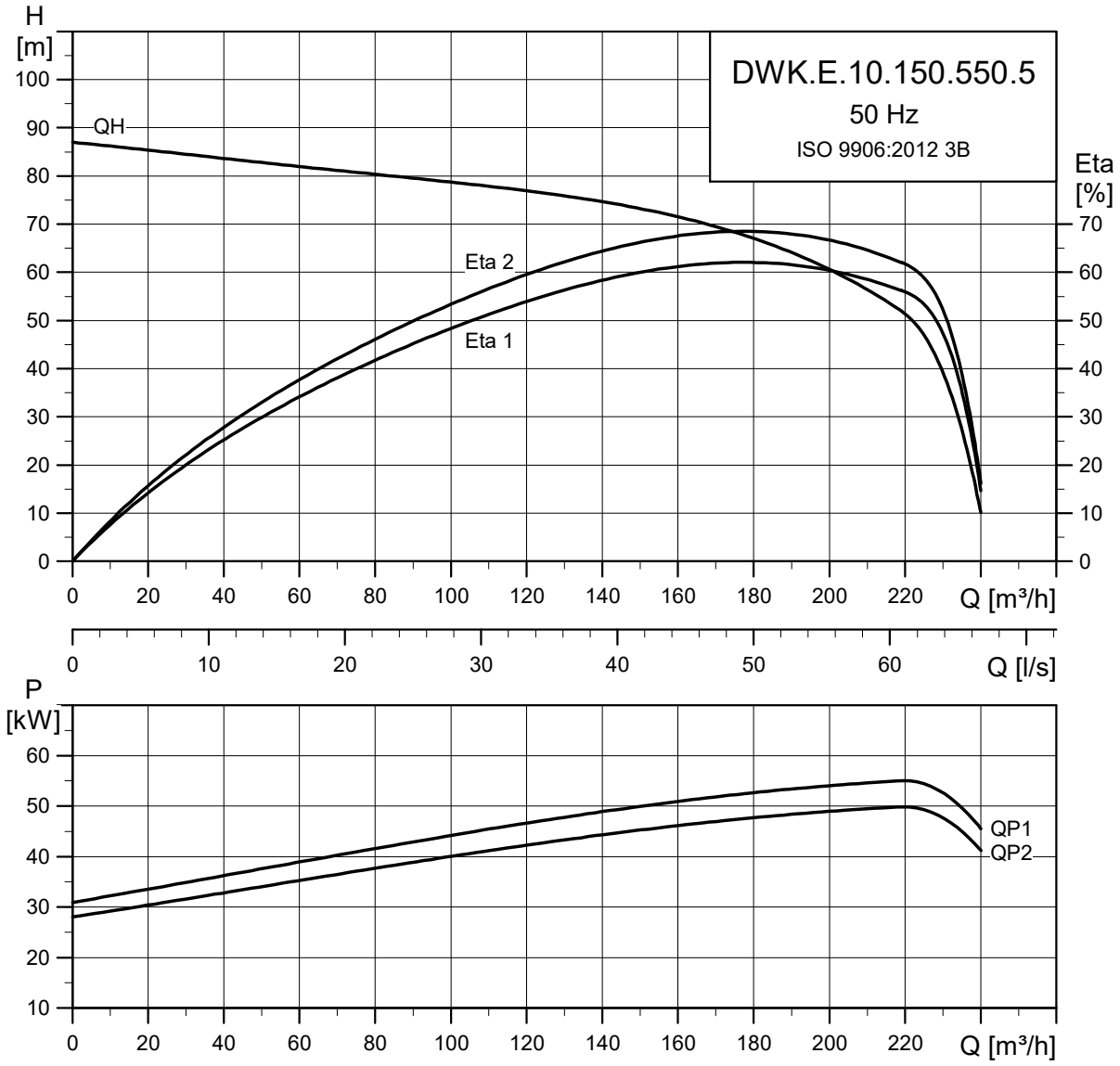
TM042899

Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.450.5.1D	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5
DWK.E.10.150.450.5.1D.R	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5
DWK.E.10.150.450.5.1D.A	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.450	Enclosed	10	15	25	68	F	40	4-10

9.7.6 DWK.E.10.150.550.5

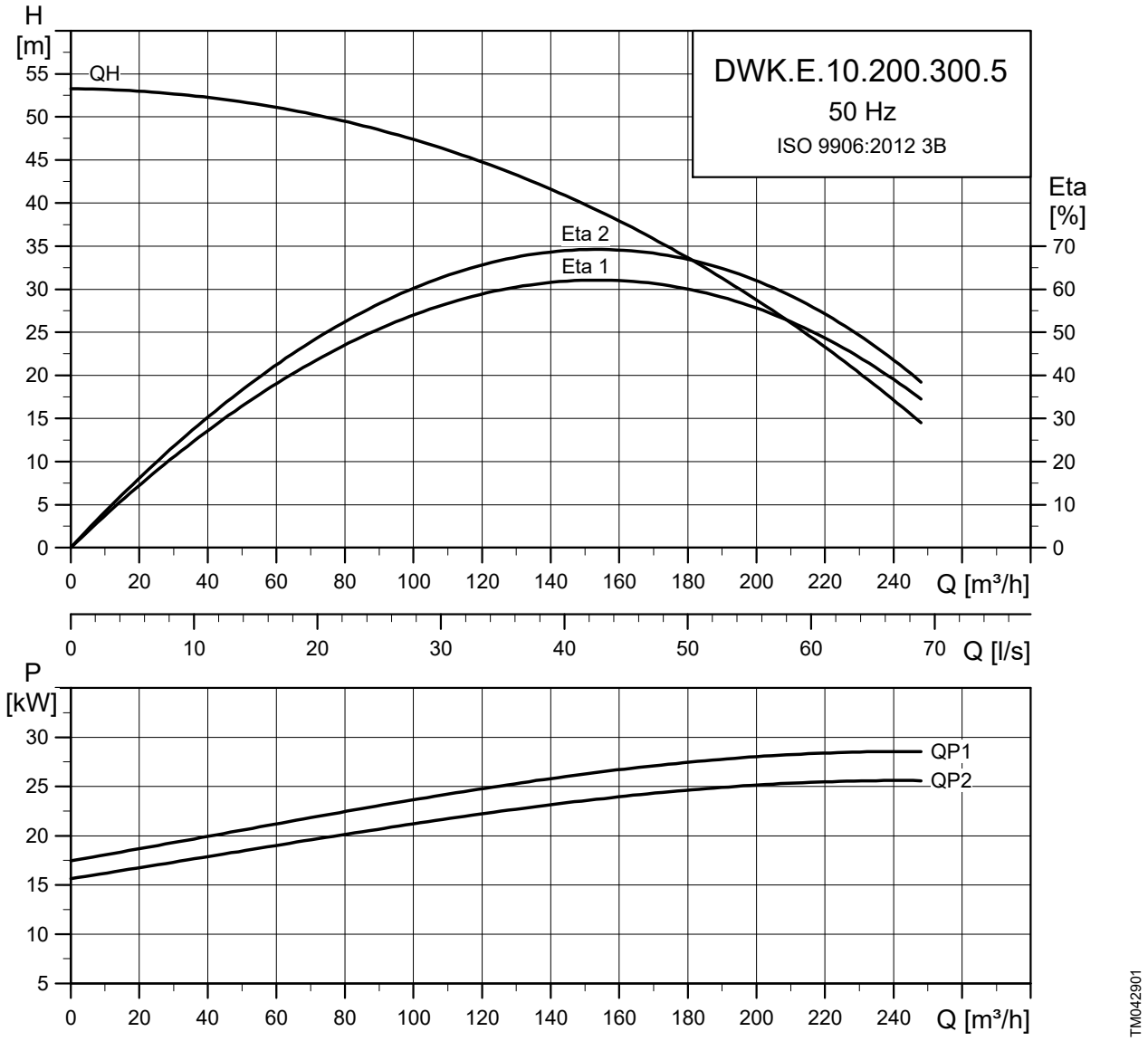


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.550.5.1D	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5
DWK.E.10.150.550.5.1D.R	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5
DWK.E.10.150.550.5.1D.A	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.150.550	Enclosed	10	15	25	68	F	40	4-10

9.7.7 DWK.E.10.200.300.5

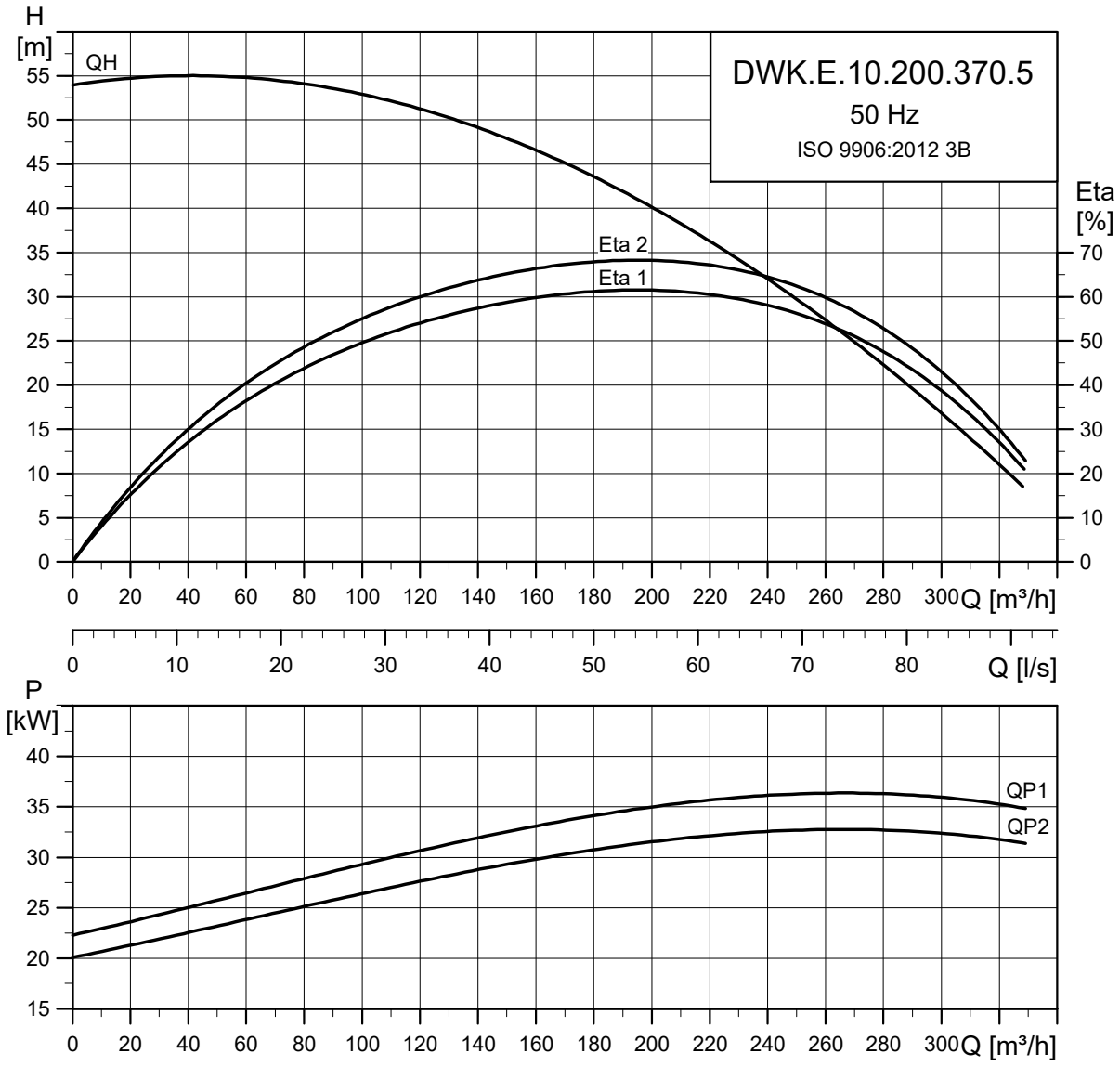


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.300.5.1D	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.200.300.5.1D.R	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.200.300.5.1D.A	3 × 380-415 V D	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.300	Enclosed	10	15	25	68	F	40	4-10

9.7.8 DWK.E.10.200.370.5

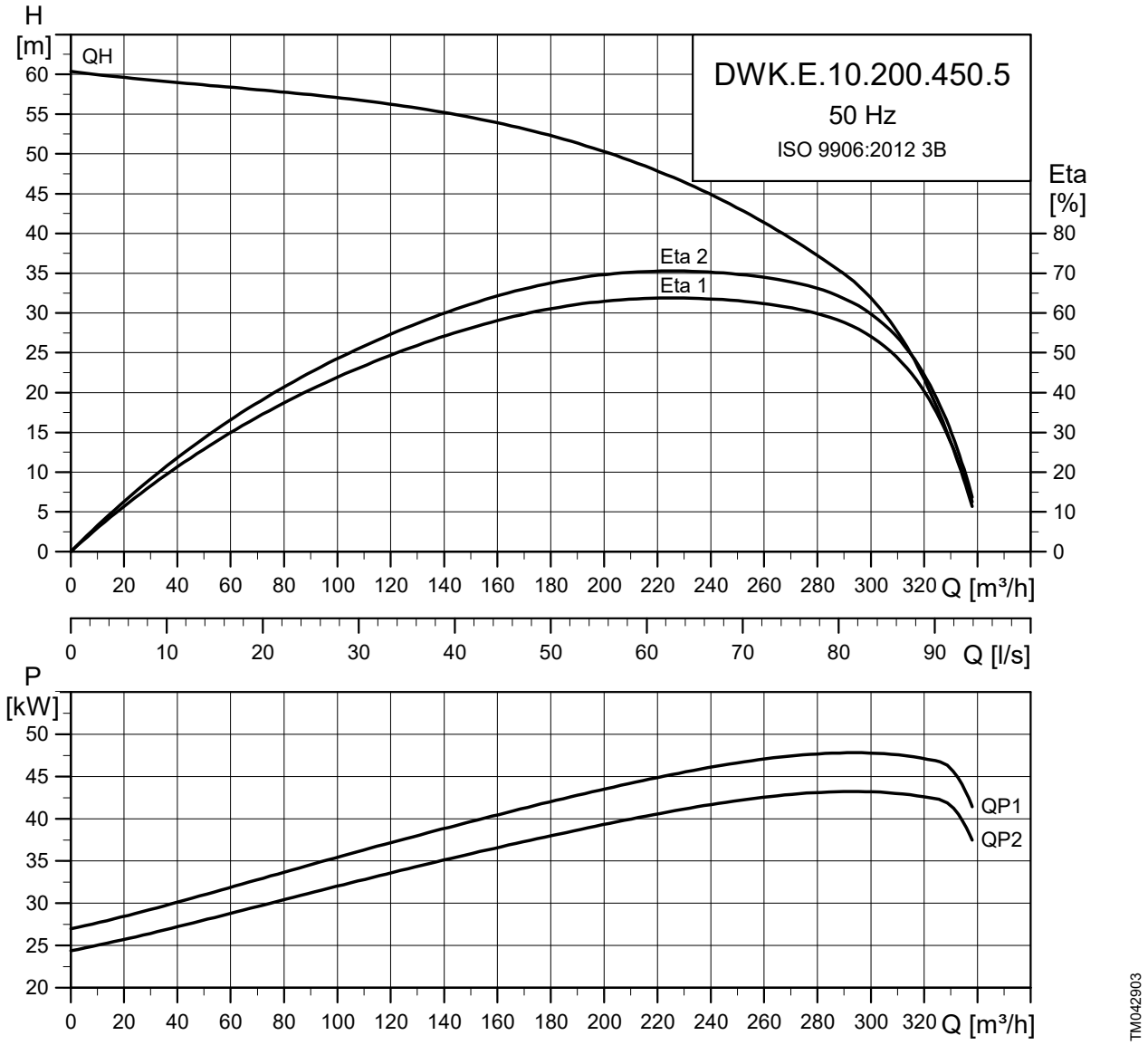


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.370.5.1D	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.200.370.5.1D.R	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5
DWK.E.10.200.370.5.1D.A	3 × 380-415 V D	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.370	Enclosed	10	15	25	68	F	40	4-10

9.7.9 DWK.E.10.200.450.5

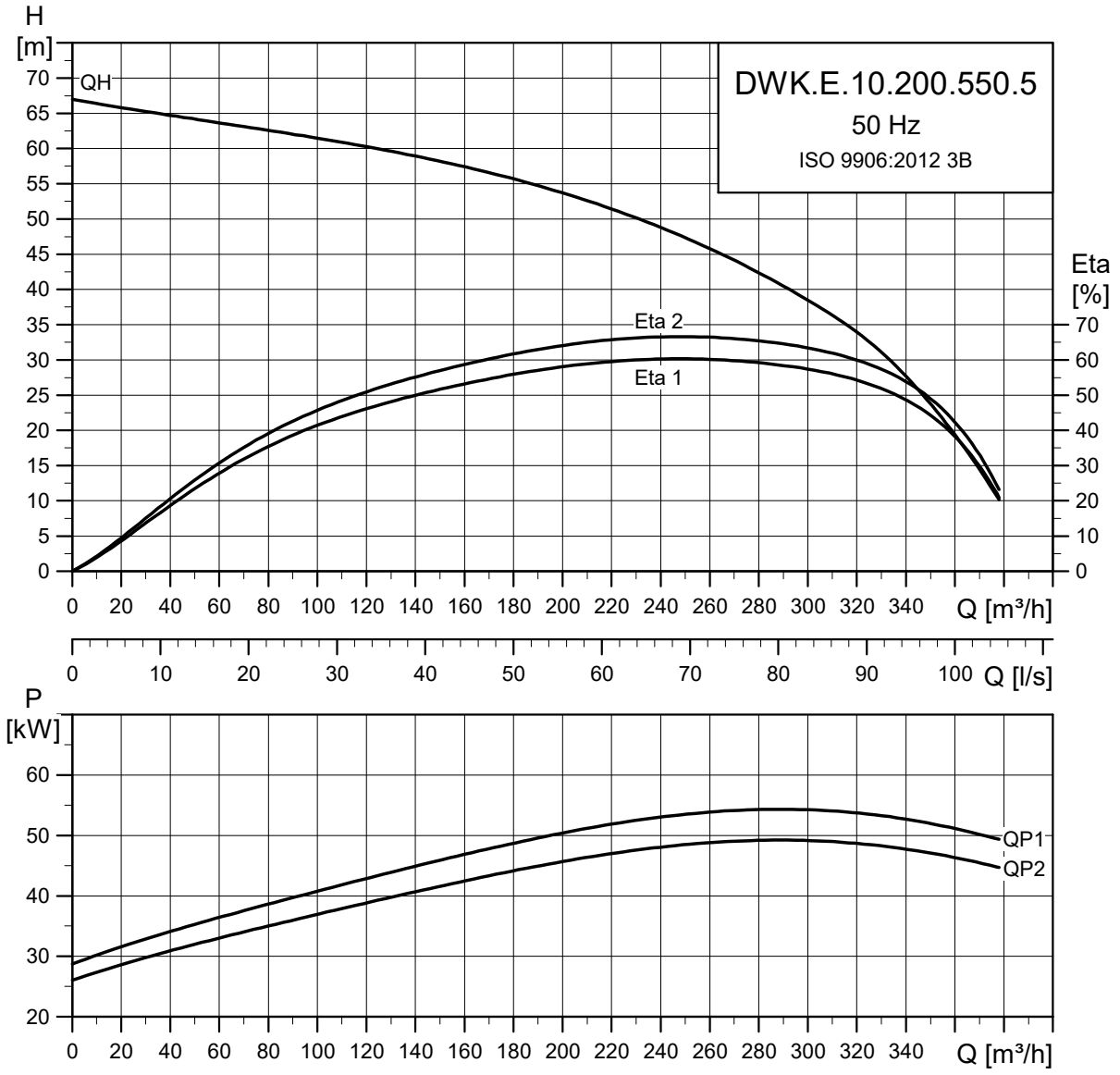


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.450.5.1D	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5
DWK.E.10.200.450.5.1D.R	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5
DWK.E.10.200.450.5.1D.A	3 × 380-415 V D	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.450	Enclosed	10	15	25	68	F	40	4-10

9.7.10 DWK.E.10.200.550.5

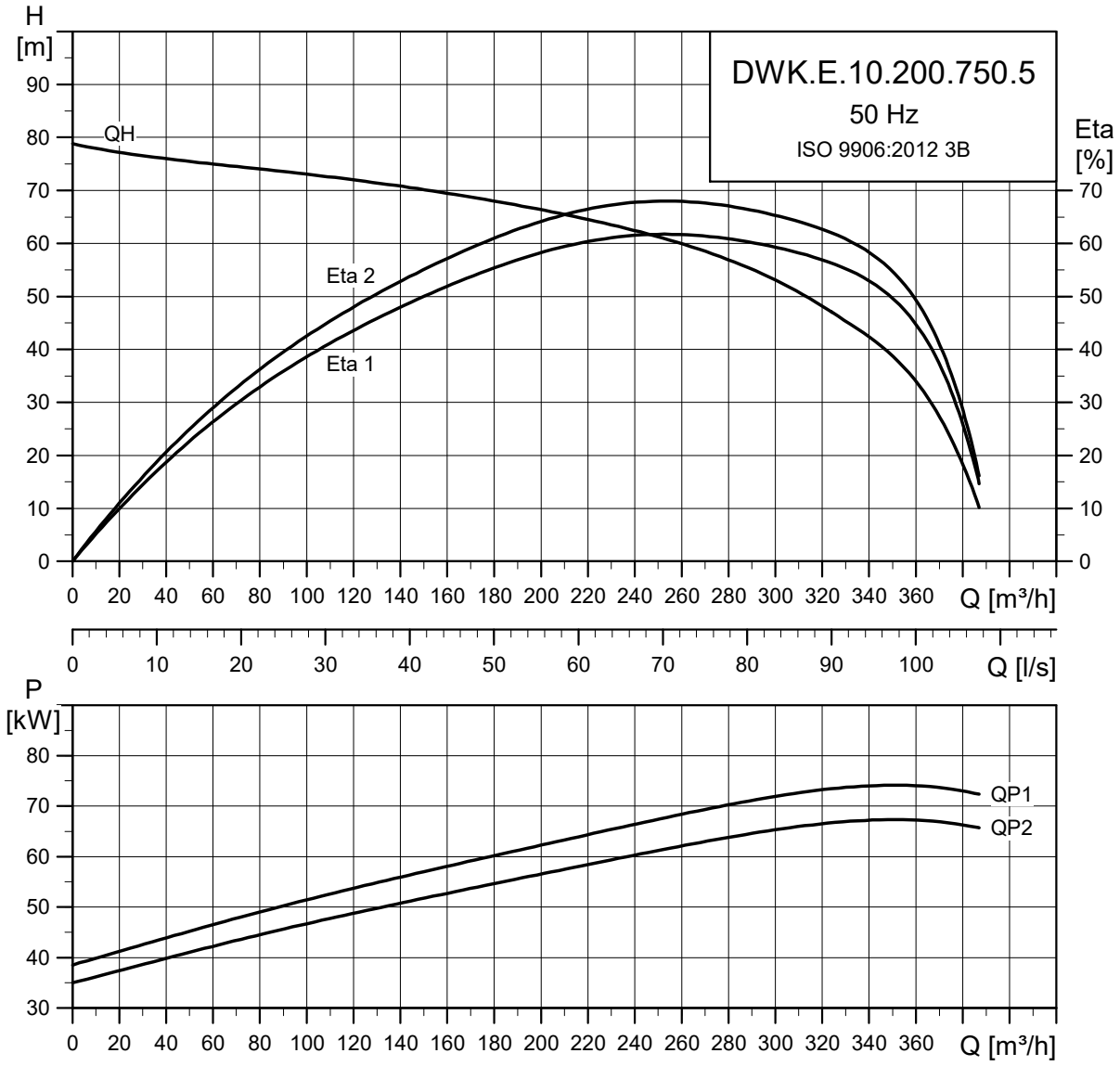


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.550.5.1D	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5
DWK.E.10.200.550.5.1D.R	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5
DWK.E.10.200.550.5.1D.A	3 × 380-415 V D	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.550	Enclosed	10	15	25	68	F	40	4-10

9.7.11 DWK.E.10.200.750.5

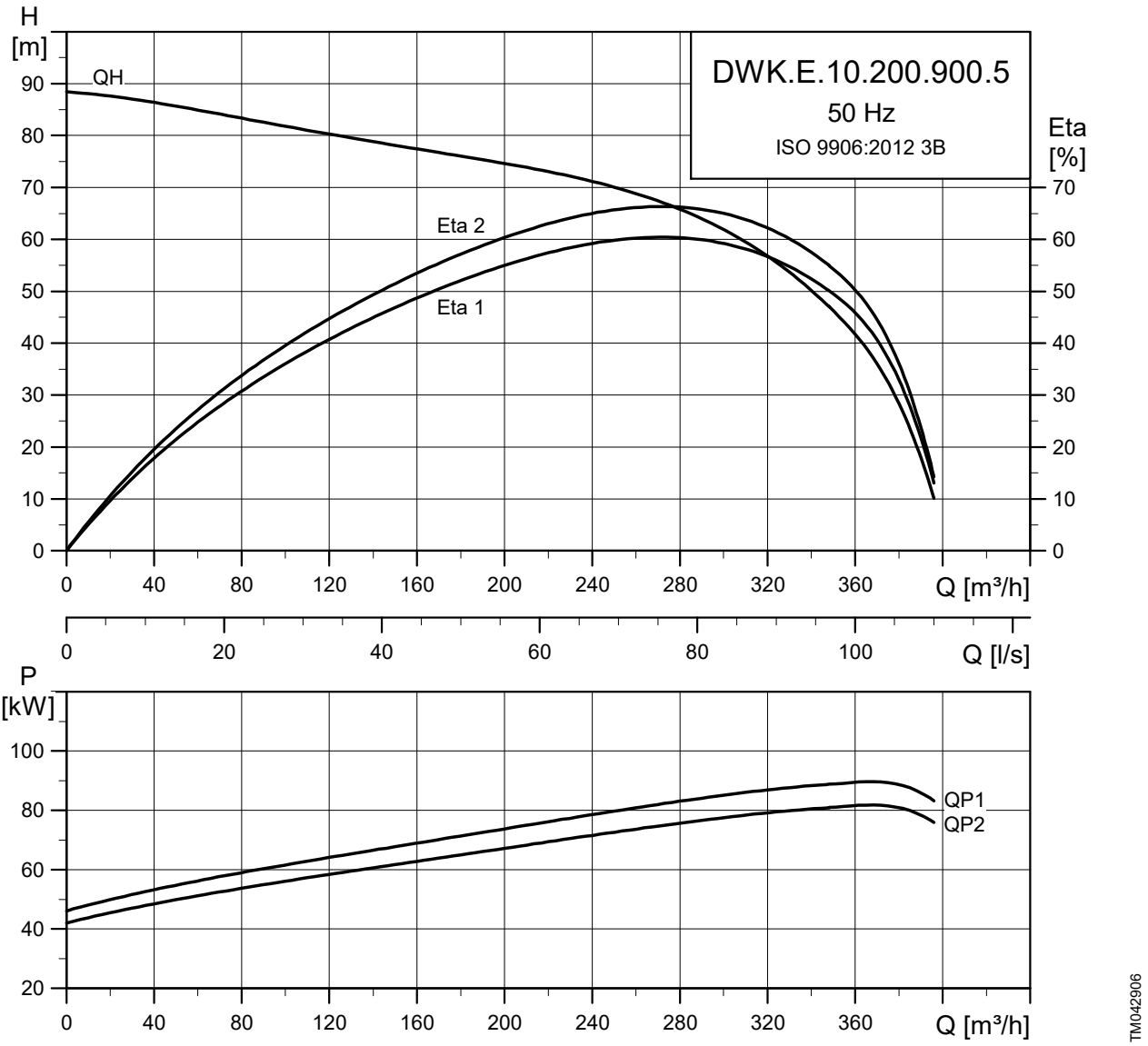


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.750.5.1D	3 × 380-415 V D	75	2850	Y/D	144	88.2	90.8	90.2	0.76	0.84	0.87	7x35+6x1.5
DWK.E.10.200.750.5.1D.R	3 × 380-415 V D	75	2850	Y/D	144	88.2	90.8	90.2	0.76	0.84	0.87	7x35+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.750	Enclosed	10	15	25	68	F	40	4-10

9.7.12 DWK.E.10.200.900.5



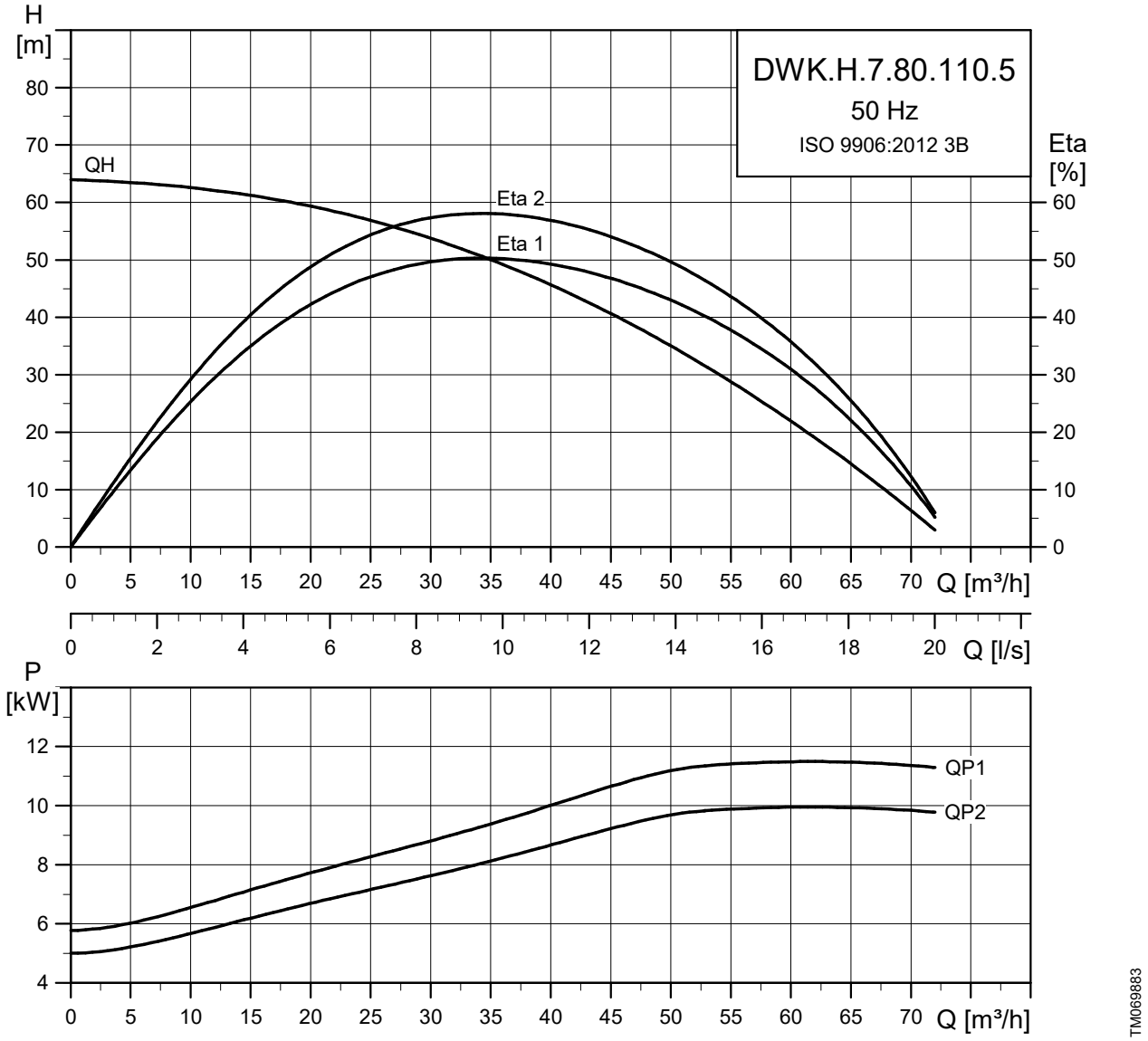
Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.900.5.1D	3 × 380-415 V D	90	2850	Y/D	172	88.5	91.1	90.5	0.76	0.84	0.87	4x50+4x1.5-2ea
DWK.E.10.200.900.5.1D.R	3 × 380-415 V D	90	2850	Y/D	172	88.5	91.1	90.5	0.76	0.84	0.87	4x50+4x1.5-2ea

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.E.10.200.900	Enclosed	10	15	25	68	F	40	4-10

9.8 DWK.H

9.8.1 DWK.H.7.80.110.5

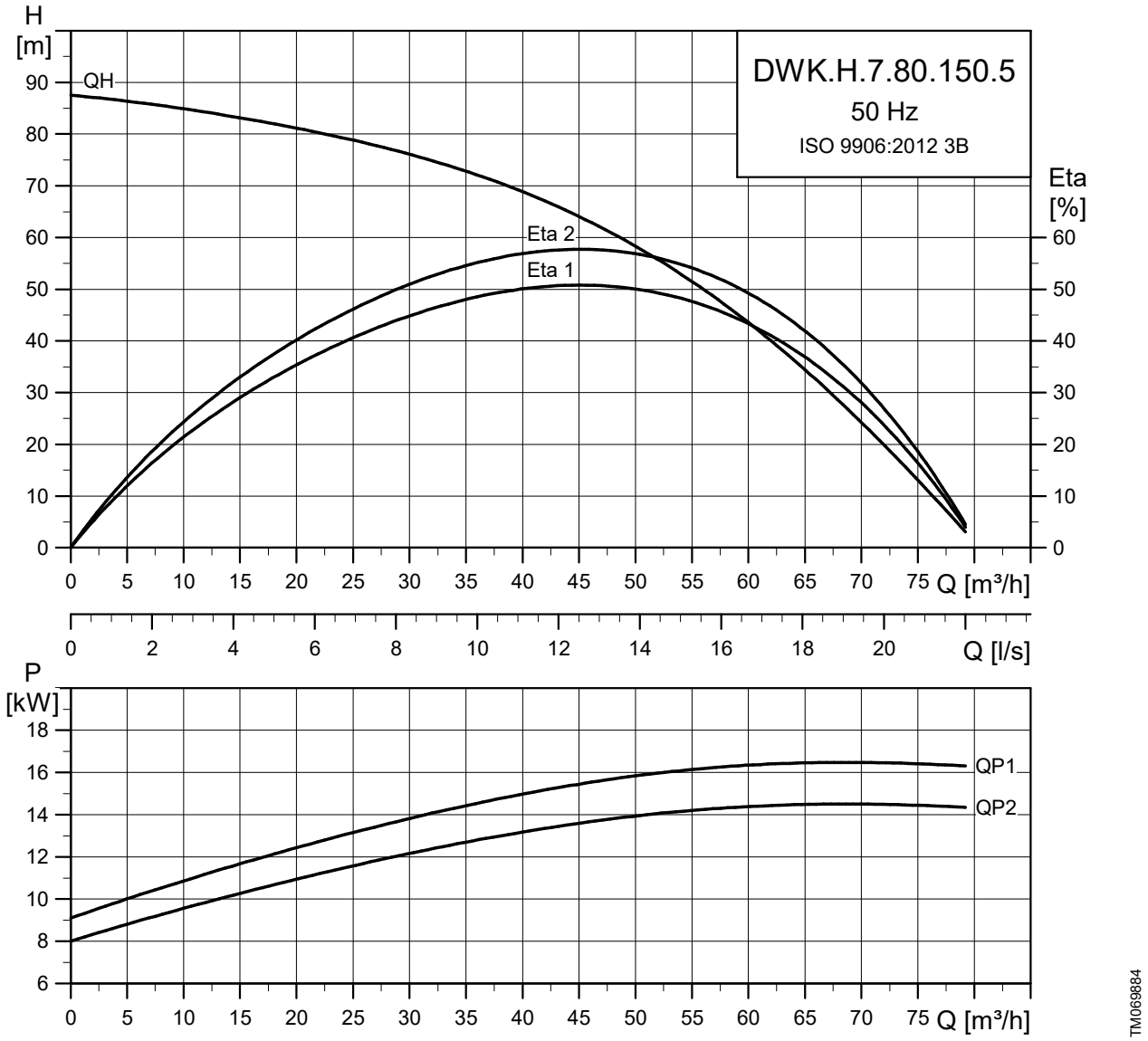


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.80.110.5.0D	3 x 380-415 V D	11	2850	DOL	23	84.2	86.6	86	0.73	0.80	0.83	3x10+1x6+4x1.5
DWK.H.7.80.110.5.0D.A	3 x 380-415 V D	11	2850	DOL	23	84.2	86.6	86	0.73	0.80	0.83	3x10+1x6+4x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.80.110.5	Enclosed	7	15	25	68	F	40	4-10

9.8.2 DWK.H.7.80.150.5

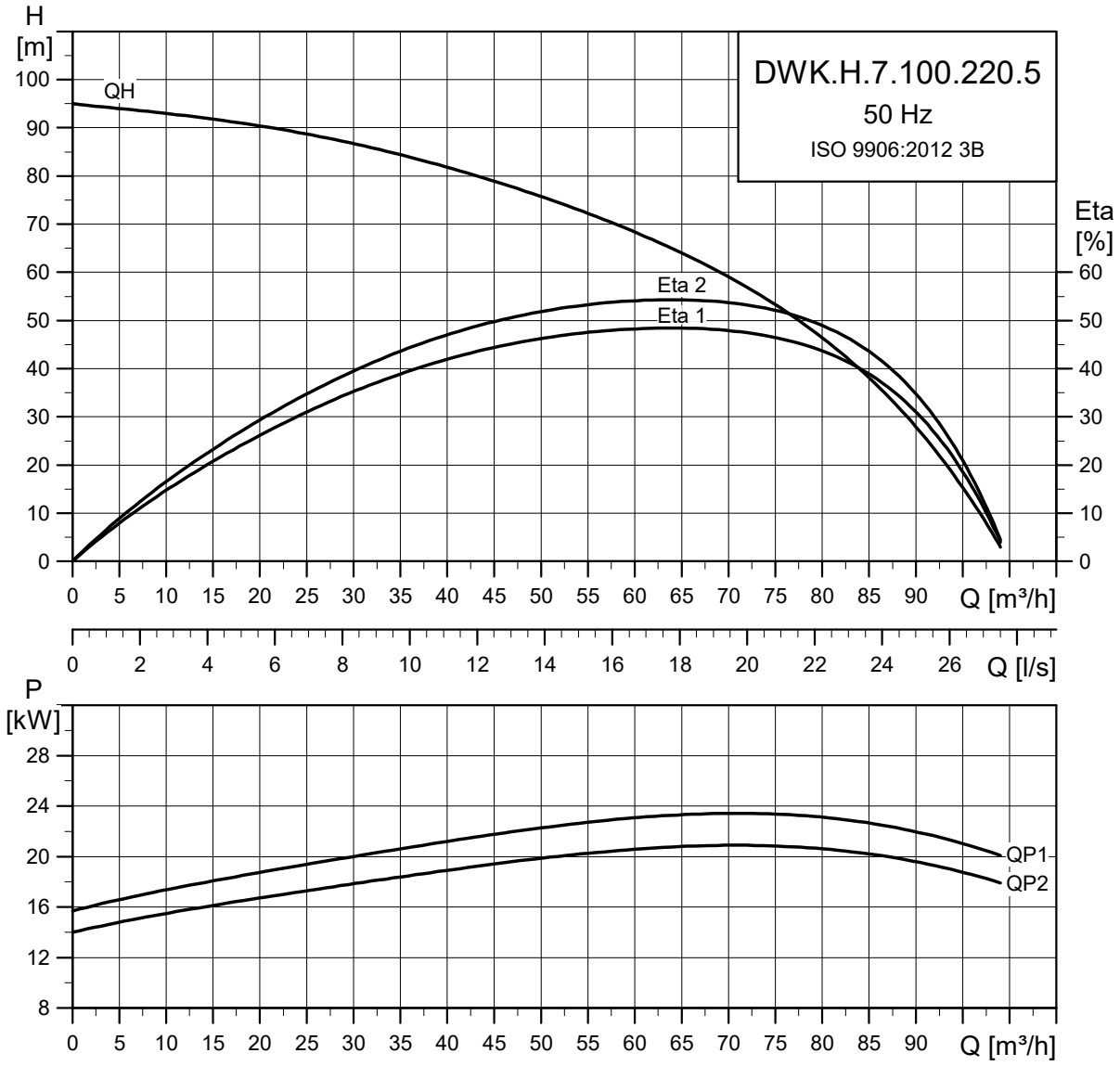


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.80.150.5.0D	3 x 380-415 V D	15	2850	DOL	31	85.5	88	87.4	0.73	0.80	0.84	3x10+1x6+4x1.5
DWK.H.7.80.150.5.0D.A	3 x 380-415 V D	15	2850	DOL	31	85.5	88	87.4	0.73	0.80	0.84	3x10+1x6+4x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.80.150.5	Enclosed	7	15	25	68	F	40	4-10

9.8.3 DWK.H.7.100.220.5

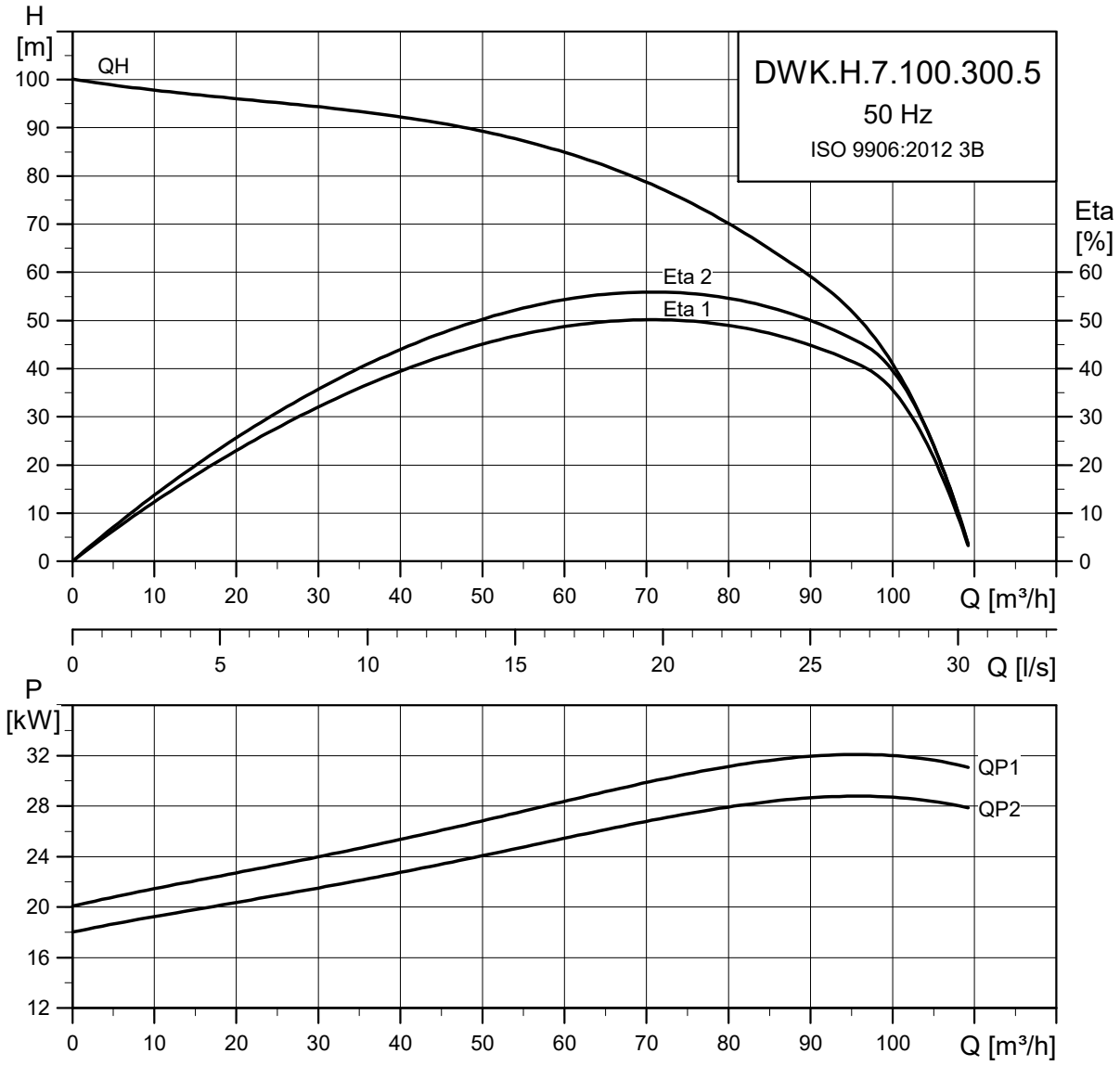


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.100.220.5.1D	3 x 380-415 V Y	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5
DWK.H.7.100.220.5.1D.A	3 x 380-415 V Y	22	2850	Y/D	43	86.7	89.2	88.6	0.75	0.82	0.86	7x10+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.100.220.5	Enclosed	7	15	25	68	F	40	4-10

9.8.4 DWK.H.7.100.300.5

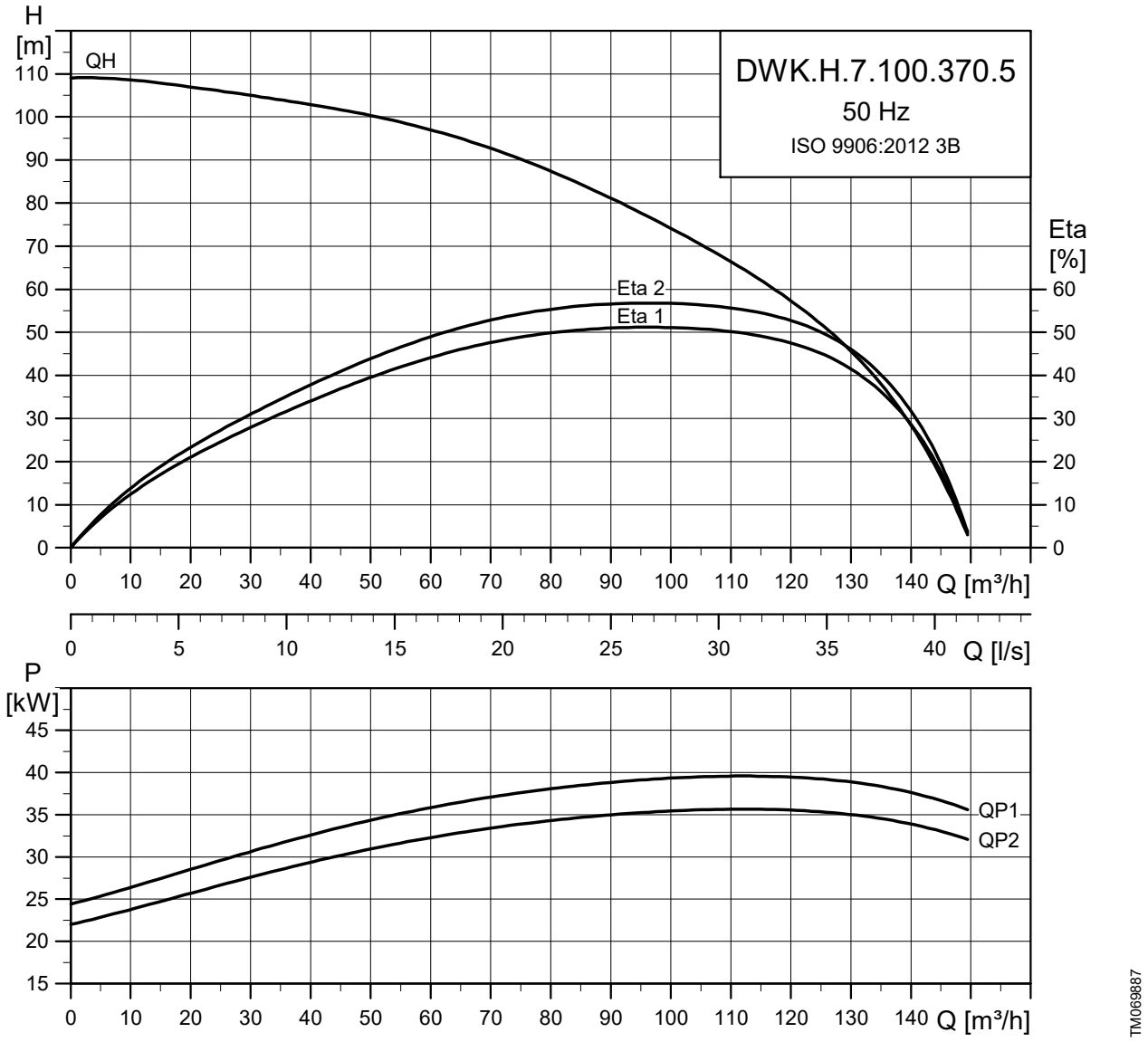


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.100.300.5.1D	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5
DWK.H.7.100.300.5.1D.A	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.7	89.1	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.100.300.5	Enclosed	7	15	25	68	F	40	4-10

9.8.5 DWK.H.7.100.370.5

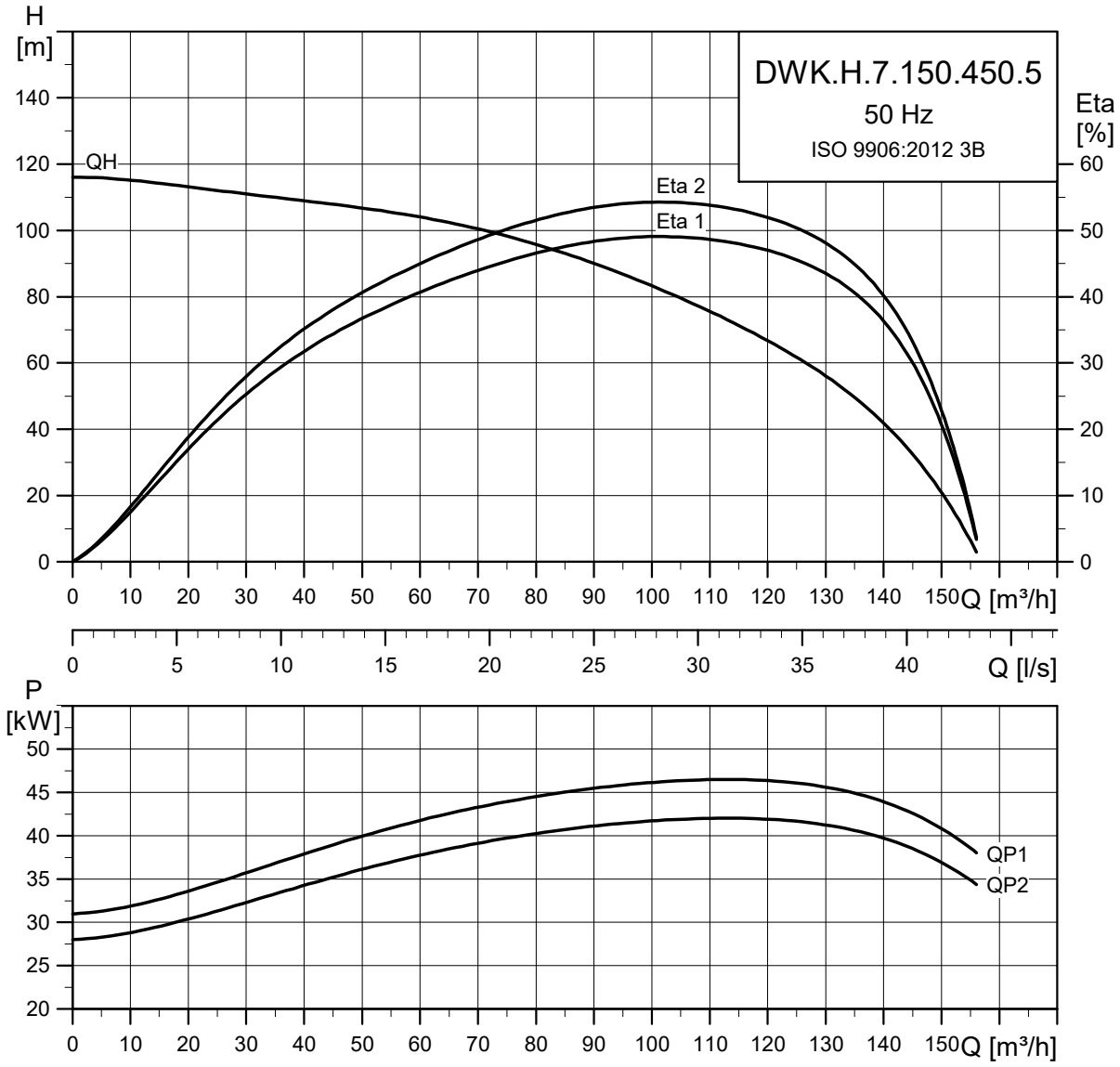


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.100.370.5.1D	3 x 380-415 V Y	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5
DWK.H.7.150.370.5.1D.A	3 x 380-415 V Y	37	2850	Y/D	72	87.6	90.1	89.5	0.75	0.83	0.86	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.100.370.5	Enclosed	7	15	25	68	F	40	4-10

9.8.6 DWK.H.7.150.450.5

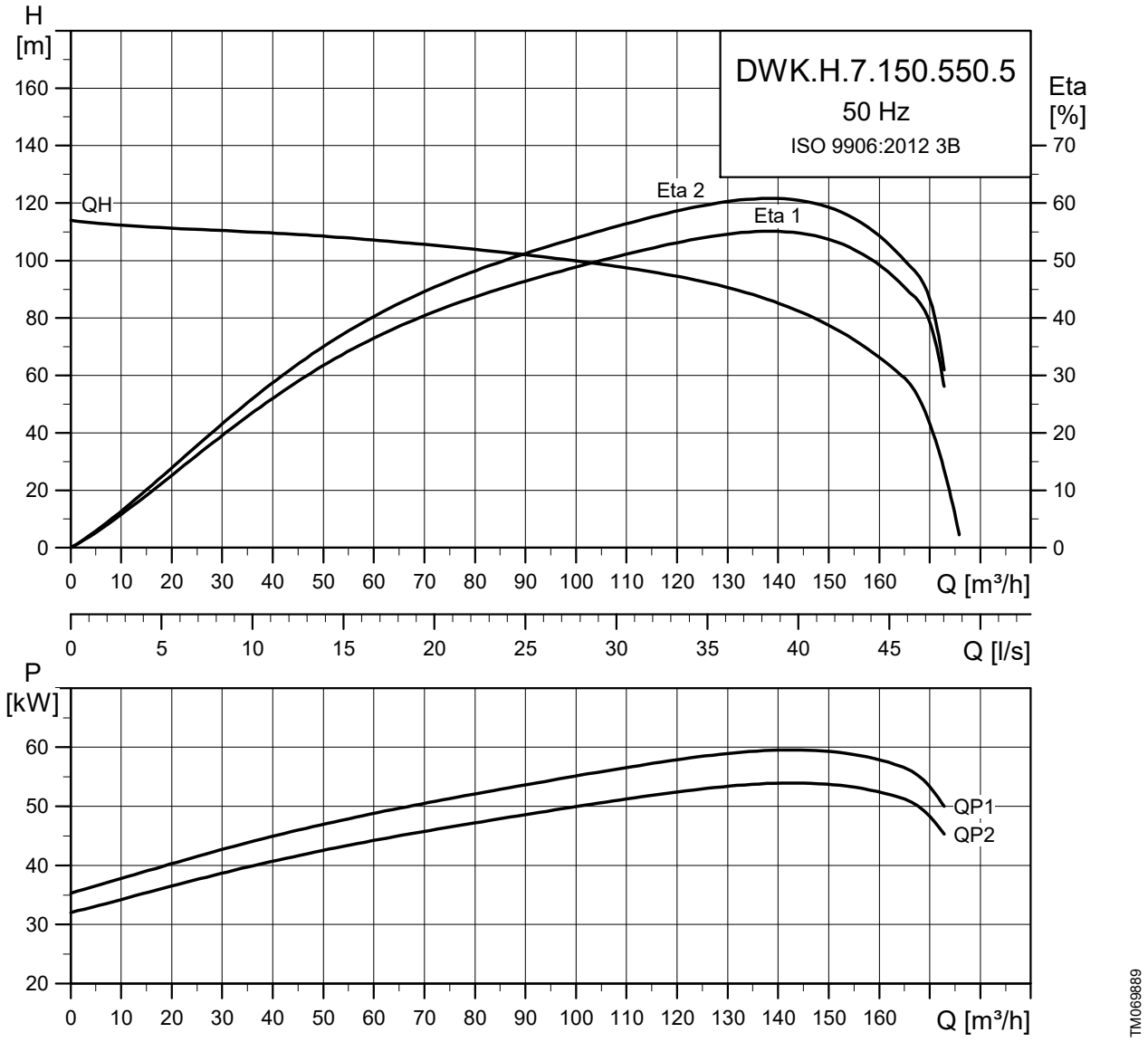


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.150.450.5.1D	3 x 380-415 V Y	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5
DWK.H.7.150.450.5.1D.A	3 x 380-415 V Y	45	2850	Y/D	87	87.9	90.4	89.8	0.76	0.83	0.87	7x16+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.150.450.5	Enclosed	7	15	25	68	F	40	4-10

9.8.7 DWK.H.7.150.550.5

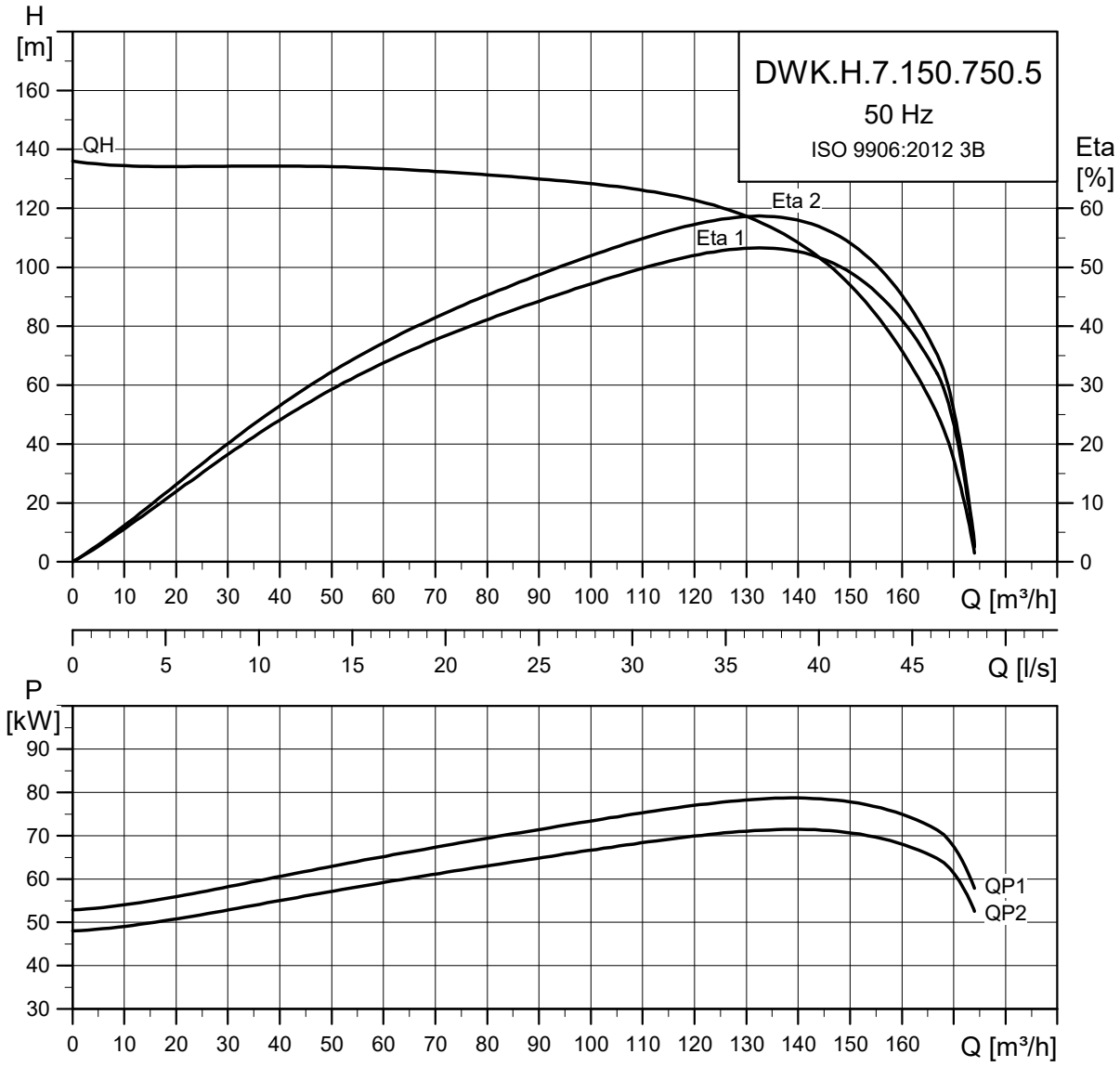


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.150.550.5.1D	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5
DWK.H.7.150.550.5.1D.A	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90.6	90	0.76	0.83	0.87	7x25+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.150.550.5	Enclosed	7	15	25	68	F	40	4-10

9.8.8 DWK.H.7.150.750.5

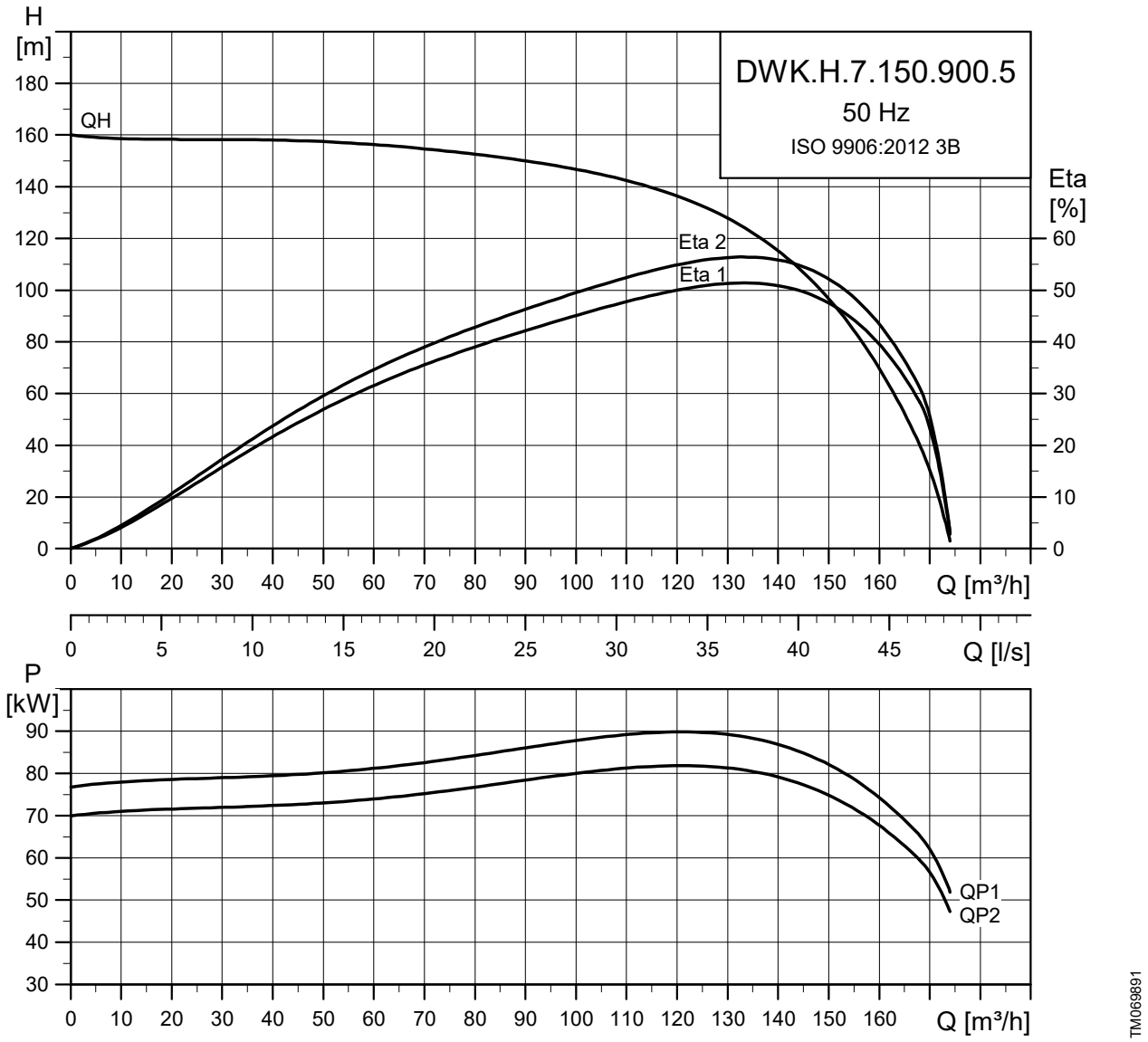


Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.150.750.5.1D	3 x 380-415 V Y	75	2850	Y/D	144	88.2	90.8	90.2	0.76	0.84	0.87	7x35+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.150.750.5	Enclosed	7	15	25	68	F	40	4-10

9.8.9 DWK.H.7.150.900.5



Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.H.7.150.900.5.1D	3 x 380-415 V Y	90	2850	Y/D	172	88.5	91.1	90.5	0.76	0.84	0.87	4x50+4x1.5-2ea

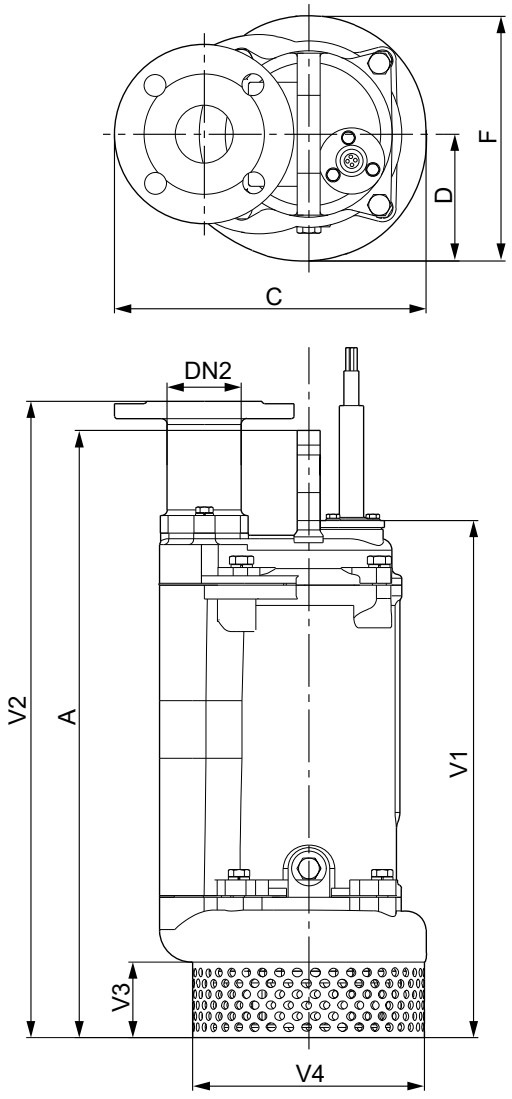
Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DWK.H.7.150.900.5	Enclosed	7	15	25	68	F	40	4-10

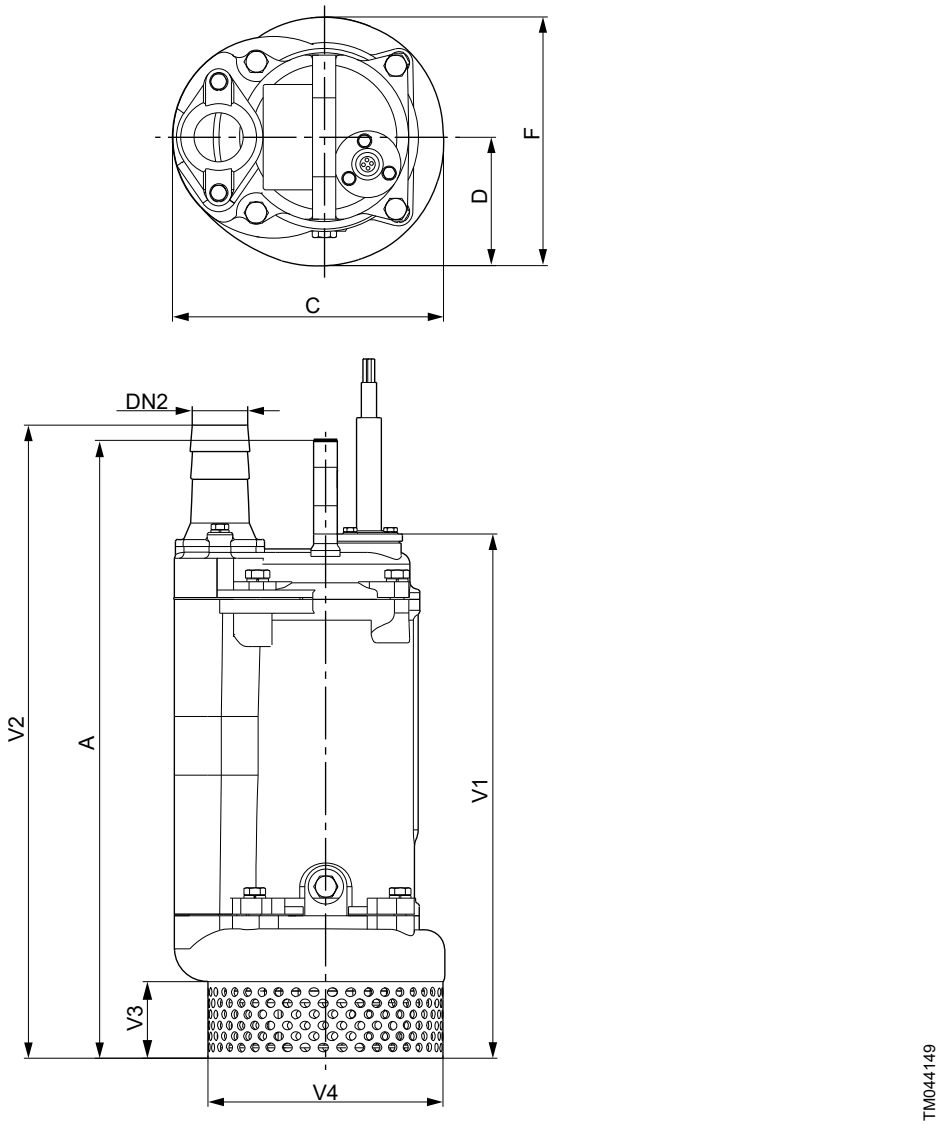
10. Dimensions and weights

All weights are stated with 10 m cable.

10.1 DWK.O.6.50/80.xx.5 and DWK.O.10.80.37.5



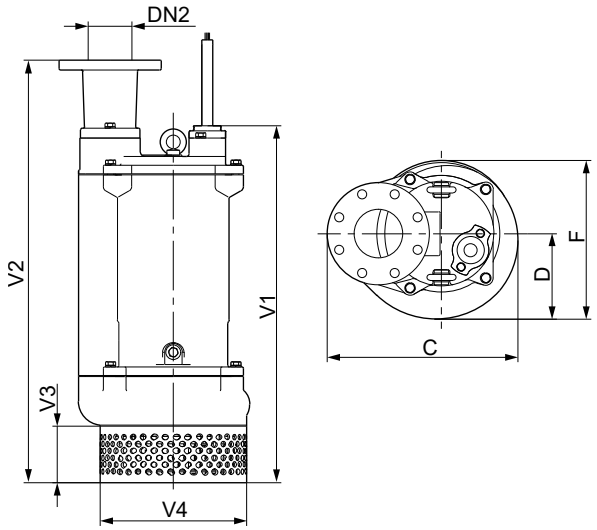
Hose connection



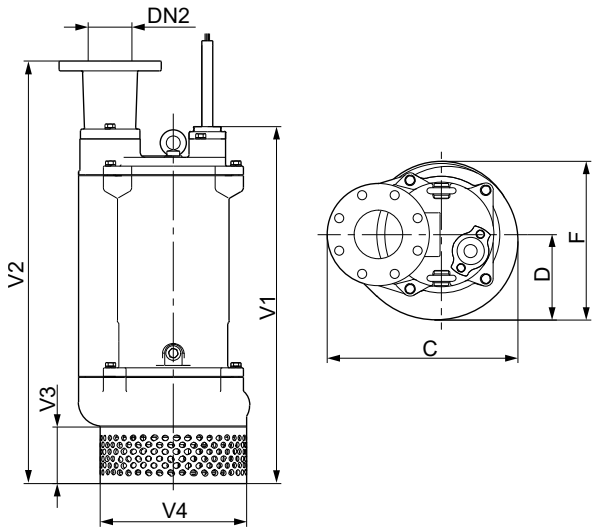
Flange connection

Pump type	Connection type	Dimensions [mm]									Weight [kg]
		A	C	D	DN2	F	V1	V2	V3	V4	
DWK.O.6.50.075	Hose	438	235	110	50	215	398	462	65	202	39
	Flange	438	276	110	50	215	398	490	65	202	39
DWK.O.6.50.15	Hose	468	235	110	50	215	428	492	65	202	41
	Flange	468	276	110	50	215	428	520	65	202	41
DWK.O.6.50.22	Hose	488	235	110	50	215	448	512	65	202	45
	Flange	488	276	110	50	215	448	540	65	202	45
DWK.O.6.80.15	Hose	468	235	110	80	215	428	560	65	202	41
	Flange	468	295	110	80	215	428	520	65	202	41
DWK.O.6.80.22	Hose	488	235	110	80	215	448	580	65	202	45
	Flange	488	276	110	80	215	448	540	65	202	45
DWK.O.10.80.37	Hose	697	286	134	80	253	591	691	90	234	81
	Flange	697	321	134	80	253	591	731	90	234	81

10.2 DWK.O.10.100.37.5 and DWK.O.13.xx.xx.5



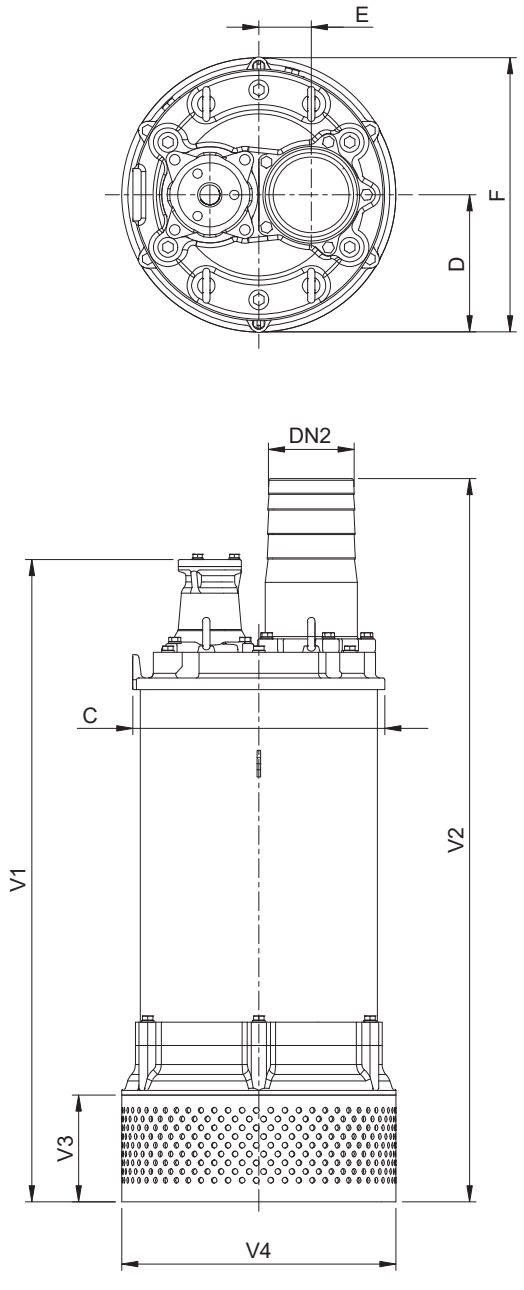
TM046998



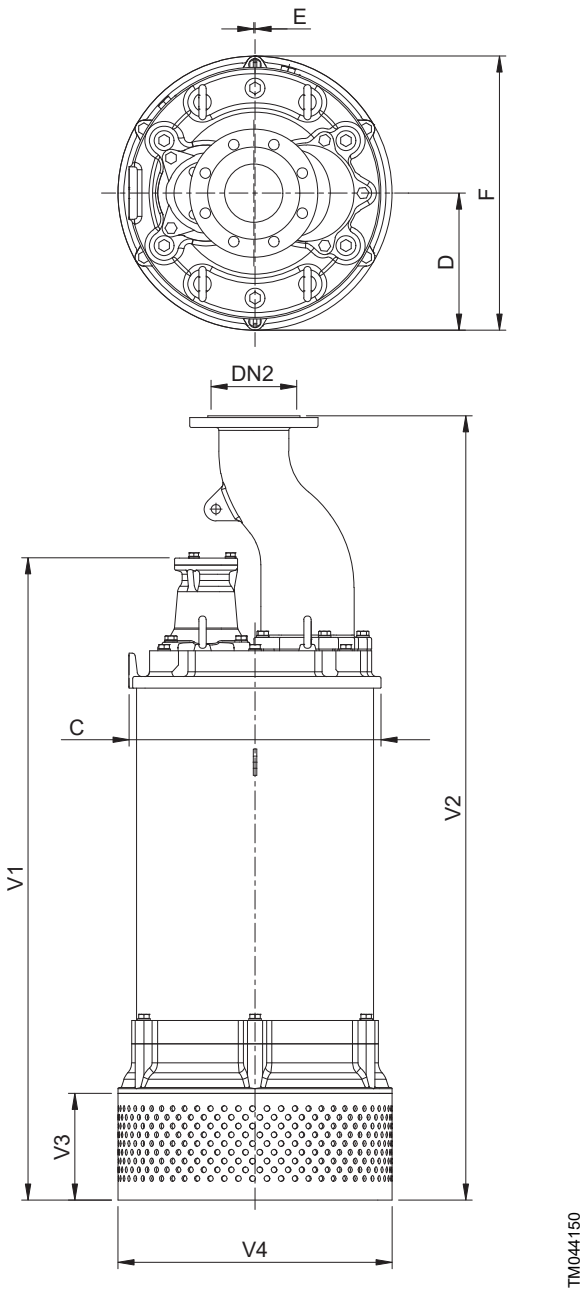
TM046998

Pump type	Connection type	Dimensions [mm]								Weight [kg]
		C	D	DN2	F	V1	V2	V3	V4	
DWK.O.10.100.37	Hose	286	134	80	253	591	691	90	234	81
	Flange	321	134	80	253	591	731	90	234	81
DWK.O.13.80.55	Hose	358	179	80	333	734	832	116	302	110
	Flange	390	179	80	333	734	872	116	302	110
DWK.O.13.100.55	Hose	358	179	100	333	734	852	116	302	110
	Flange	409	179	100	333	734	872	116	302	110
DWK.O.13.100.75	Hose	358	179	100	333	734	852	116	302	156
	Flange	409	179	100	333	734	872	116	302	156
DWK.O.13.100.110	Hose	358	179	100	333	779	897	116	302	190
	Flange	431	179	100	333	779	917	116	302	190
DWK.O.13.100.150	Hose	358	179	100	333	779	897	116	302	195
	Flange	431	179	100	333	779	917	116	302	195
DWK.O.13.150.75	Hose	358	179	150	333	734	893	116	302	156
	Flange	434	179	150	333	734	862	116	302	156
DWK.O.13.150.110	Hose	358	179	150	333	779	948	116	302	190
	Flange	457	179	150	333	779	907	116	302	190
DWK.O.13.150.150	Hose	358	179	150	333	779	948	116	302	195
	Flange	457	179	150	333	779	907	116	302	195

10.3 DWK.E



Hose connection



Flange connection

Pump type	Connection type	Dimensions [mm]									Weight [kg]
		C	D	DN2	E	F	V1	V2	V3	V4	
DWK.E.10.100.220	Hose	432	235	100	90	470	1101	1117	183	470	408
	Flange	432	235	100	2	470	1101	1342	183	470	420
DWK.E.10.150.220	Hose	432	235	150	90	470	1101	1232	183	470	417
	Flange	432	235	150	18	470	1101	1342	183	470	427
DWK.E.10.150.300	Hose	432	235	150	90	470	1101	1232	183	470	442
	Flange	432	235	150	18	470	1101	1342	183	470	452
DWK.E.10.150.370	Hose	532	306	150	98	612	1320	1411	220	557	837
	Flange	532	306	150	0	612	1320	1561	220	557	839
DWK.E.10.150.450	Hose	532	306	150	98	612	1320	1411	220	557	846
	Flange	532	306	150	0	612	1320	1561	220	557	858

Pump type	Connection type	Dimensions [mm]									Weight [kg]
		C	D	DN2	E	F	V1	V2	V3	V4	
DWK.E.10.150.550	Hose	532	306	150	98	612	1320	1411	220	557	909
	Flange	532	306	150	0	612	1320	1561	220	557	921
DWK.E.10.200.300	Hose	432	235	200	98	470	1101	1192	183	470	444
	Flange	432	235	200	18	470	1101	1342	183	470	462
DWK.E.10.200.370	Hose	532	306	200	98	612	1320	1411	220	557	839
	Flange	532	306	200	0	612	1320	1561	220	557	841
DWK.E.10.200.450	Hose	532	306	200	98	612	1320	1411	220	557	848
	Flange	532	306	200	0	612	1320	1561	220	557	860
DWK.E.10.200.550	Hose	532	306	200	98	612	1320	1411	220	557	911
	Flange	532	306	200	0	612	1320	1561	220	557	923
DWK.E.10.200.750	Hose	532	306	200	98	612	1418	1511	220	557	961
	Flange	532	306	200	0	612	1418	1661	220	557	973
DWK.E.10.200.900	Hose	532	306	200	98	612	1418	1511	220	557	1016
	Flange	532	306	200	0	612	1418	1661	220	557	1028

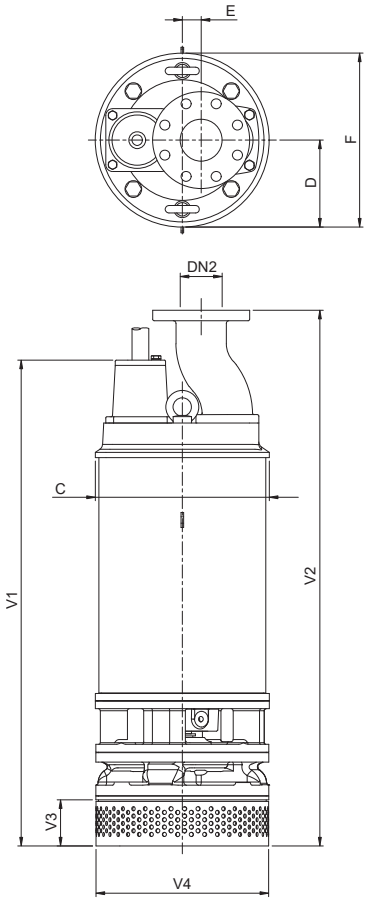
Auto-coupling dimensions part1

Pump type	Connection type	Dimensions [mm]										Weight[kg]
		V1	V4	ZΦ1	Z2	Z3	Z4	Z7	Z8	Z9	Z10	Z12a	
DWK.E.10.100.220.A	Auto-coupling	1101	470	8-Φ19	150	90	200	715	480	75	42.7	142	420
DWK.E.10.150.220.A	Auto-coupling	1101	470	8-Φ23	300	150	300	815	580	90	48.6	120	427
DWK.E.10.150.300.A	Auto-coupling	1101	470	8-Φ23	300	150	300	815	580	90	48.6	120	452
DWK.E.10.150.370.A	Auto-coupling	1320	557	8-Φ23	300	150	300	936	630	90	48.6	111	800
DWK.E.10.150.450.A	Auto-coupling	1320	557	8-Φ23	300	150	300	936	630	90	48.6	111	830
DWK.E.10.150.550.A	Auto-coupling	1320	557	8-Φ23	300	150	300	936	630	90	48.6	111	850
DWK.E.10.200.300.A	Auto-coupling	1101	470	8-Φ23	300	280	350	885	650	100	48.6	170	470
DWK.E.10.200.370.A	Auto-coupling	1320	557	8-Φ23	300	280	350	1006	700	100	48.6	161	820
DWK.E.10.200.450.A	Auto-coupling	1320	557	8-Φ23	300	280	350	1006	700	100	48.6	161	850
DWK.E.10.200.550.A	Auto-coupling	1320	557	8-Φ23	300	280	350	1006	700	100	48.6	161	870

Auto-coupling dimensions part2

Pump type	Connection type	Dimensions [mm]										Weight[kg]
		Z12b	Z13	Z15	Z16	Z17	ΦZDc1	ZDN1	ZDt1	ZL2	ZM	
DWK.E.10.100.220.A	Auto-coupling	200	400	250	350	3	180	100	20	135	4-M16x200L	420
DWK.E.10.150.220.A	Auto-coupling	250	465	290	450	3	240	150	26	170	4-M20x200L	427
DWK.E.10.150.300.A	Auto-coupling	250	465	290	450	3	240	150	26	170	4-M20x200L	452
DWK.E.10.150.370.A	Auto-coupling	250	465	290	450	3	240	150	26	170	4-M20x200L	800
DWK.E.10.150.450.A	Auto-coupling	250	465	290	450	3	240	150	26	170	4-M20x200L	830
DWK.E.10.150.550.A	Auto-coupling	250	465	290	450	3	240	150	26	170	4-M20x200L	850
DWK.E.10.200.300.A	Auto-coupling	300	465	330	535	3	295	200	26	215	4-M20x200L	470
DWK.E.10.200.370.A	Auto-coupling	300	465	330	535	3	295	200	26	215	4-M20x200L	820
DWK.E.10.200.450.A	Auto-coupling	300	465	330	535	3	295	200	26	215	4-M20x200L	850
DWK.E.10.200.550.A	Auto-coupling	300	465	330	535	3	295	200	26	215	4-M20x200L	870

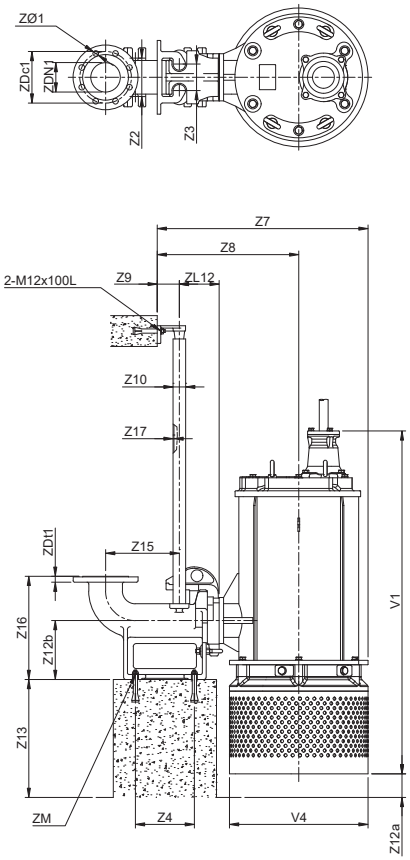
10.4 DWK.H



TM070323

Flange connection

Pump type	Dimensions [mm]						Weight [kg]
	E	V1	V2	V3	V4	DN2	
DWK.H.7.80.110	36	930	930	85	330	80	235
DWK.H.7.80.150	36	930	930	85	330	80	250
DWK.H.7.100.220	2	1161	1180	280	470	100	530
DWK.H.7.100.300	2	1161	1180	280	470	100	580
DWK.H.7.100.370	10	1353	1445	219	518	100	800
DWK.H.7.150.450	0	1353	1445	219	518	150	830
DWK.H.7.150.550	0	1353	1445	219	518	150	850
DWK.H.7.150.750	0	1453	1545	219	518	150	880
DWK.H.7.150.900	0	1453	1545	219	518	150	1020



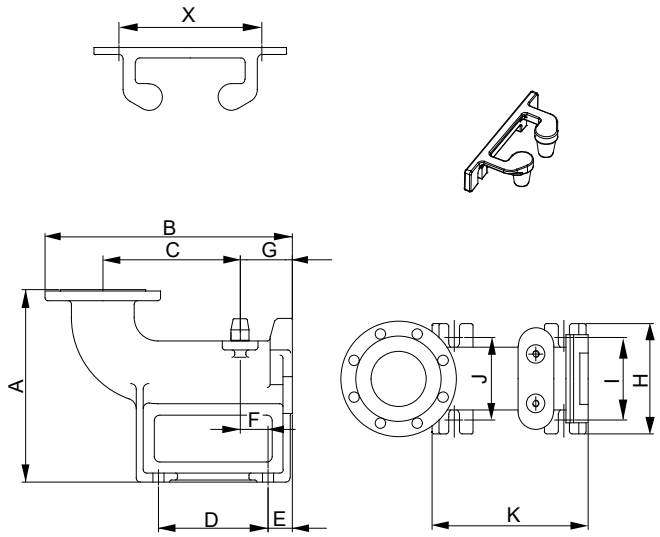
Pump dimensions with auto-coupling connection

Auto-coupling dimensions part 1

Pump type	Dimensions [mm]											Weight [kg]
	V1	V4	ZΦ1	Z2	Z3	Z4	Z7	Z8	Z9	Z10	Z12a	
DWK.H.7.80.110.A	930	330	8-Φ19	130	90	200	615	430	75	25A	80	235
DWK.H.7.80.150.A	930	330	8-Φ19	130	90	200	615	430	75	25A	80	250
DWK.H.7.100.220.A	1163	470	8-Φ19	150	90	200	715	480	75	32A	80	550
DWK.H.7.100.300.A	1163	470	8-Φ19	150	90	200	715	480	75	32A	80	560
DWK.H.7.150.370.A	1353	518	8-Φ23	300	150	300	936	630	90	40A	80	800
DWK.H.7.150.450.A	1353	518	8-Φ23	300	150	300	936	630	90	40A	80	830
DWK.H.7.150.550.A	1353	518	8-Φ23	300	150	300	936	630	90	40A	80	850

Auto-coupling dimensions part 2

Pump type	Dimensions [mm]										Weight [kg]
	Z12b	Z13	Z15	Z16	Z17	ΦZDc1	ZDN1	ZDt1	ZL2	ZM	
DWK.H.7.80.110.A	150	350	200	250	3	160	80	20	122	4-M16x200L	235
DWK.H.7.80.150.A	150	350	200	250	3	160	80	20	122	4-M16x200L	250
DWK.H.7.100.220.A	200	400	250	350	3	180	100	20	135	4-M16x200L	550
DWK.H.7.100.300.A	200	400	250	350	3	180	100	20	135	4-M16x200L	560
DWK.H.7.150.370.A	250	465	290	450	3	240	150	24	170	4-M20x200L	800
DWK.H.7.150.450.A	250	465	290	450	3	240	150	24	170	4-M20x200L	830
DWK.H.7.150.550.A	250	465	290	450	3	240	150	24	170	4-M20x200L	850



Guide-rail bracket and auto-coupling base unit dimensions

Guide rail bracket dimensions	X [mm]	Weight [kg]
DN 80	180	1.5
DN100	180	2
DN150	260	3.5
DN200	260	5.8

Auto-coupling base unit dimensions

Cast-iron base unit	A	B	C	D	E	F	G	H	I	J	K	Weight[kg]
DN80	250	390	200	200	44	46	90	200	130	130	284	18.5
DN100	350	455	250	200	44	51	95	200	150	150	284	24.5
DN150	450	552.5	290	300	55	65	120	360	300	300	405	55
DN200	535	655	330	350	55	100	155	400	300	300	450	100

11. Accessories

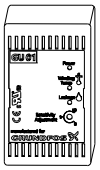
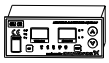
11.1 DWK

● available for stated product range

❍ available only for DWK.E

Pictures	Description		Dimensions	DWK.O [kW]								DWK.H [kW]		DWK.E, DWK.H [kW]							Product number
				0.75	1.5	2.2	3.7	5.5	7.5	11	15	11	15	22	30	37	45	55	75	90	
 TM017173	Lifting chain 320 kg SS with shackle		2 m	●	●	●	●	●	●	●	●	●	●								98989662
			3 m	●	●	●	●	●	●	●	●	●	●								98989664
			4 m	●	●	●	●	●	●	●	●	●	●								98989666
			6 m	●	●	●	●	●	●	●	●	●	●								98989668
			8 m	●	●	●	●	●	●	●	●	●	●								98989670
			10 m	●	●	●	●	●	●	●	●	●	●								98989672
 TM017173	Lifting chain 500 kg SS with shackle		2 m											●	●						98538174
			3 m											●	●						98538175
			4 m											●	●						98538176
			6 m											●	●						98538177
			8 m											●	●						98538178
			10 m											●	●						98538179
 TM017173	Lifting chain 2000 kg SS with hook		4 m													●	●	●	●	●	98425801
			6 m													●	●	●	●	●	98425802
			8 m													●	●	●	●	●	98425803
			10 m													●	●	●	●	●	98425804
 TM070094	Stainless steel (304), wire with shackle		3 m									●	●	●	●	●	●	●	●	●	Contact Grundfos
			4 m									●	●	●	●	●	●	●	●	●	
			6 m									●	●	●	●	●	●	●	●	●	
			8 m									●	●	●	●	●	●	●	●	●	
			10 m									●	●	●	●	●	●	●	●	●	
 TM070091	Outlet flange with O-ring and bolts	DIN	DN 50 [1]		●	●	●														96922567
			DN 80 [1]		●	●															96922568
							●	●													96922569
			DN 100 [1]				●	●	●	●	●										96922570
			DN 150 [1]						●	●	●										96922571
	Outlet flange with gasket and bolts		DN 80 [1]									●	●								99878884
			DN 100 [1]											●	●						96922572
			DN 100 [1]													●					99878942
			DN 150 [1]											❍	❍						96922573
																●	●	●	●	●	96922574
			DN 200 [2]												❍						96922576
																❍	❍	❍	❍	❍	96922577
 TM070091	Outlet flange with O-ring and bolts	JIS	DN 50 [1]	●	●	●															96922555
			DN 80 [1]		●	●															96922556
							●	●													96922557
			DN 100 [1]				●	●	●	●	●										96922558
			DN 150 [1]						●	●	●										96922559
	Outlet flange with gasket and bolts		DN 80 [1]									●	●								99878886
			DN 100 [1]											●	●						96922560
																●					99878955

Pictures	Description		Dimensions	DWK.O [kW]								DWK.H [kW]		DWK.E, DWK.H [kW]							Product number
				0.75	1.5	2.2	3.7	5.5	7.5	11	15	11	15	22	30	37	45	55	75	90	
			DN 150 [1]											❍	❍						96922561
																●	●	●	●	●	96922562
			DN 200 [2]												❍						96922564
																❍	❍	❍	❍	❍	96922565
TM070091	Outlet flange with O-ring and bolts	ANSI [3]	NPS 2"	●	●	●															96922579
			NPS 3"		●	●															96922580
							●	●													96922581
			NPS 4"				●	●	●	●	●										96922582
			NPS 6"						●	●	●										96922583
	Outlet flange with gasket and bolts		NPS 3"									●	●								99878885
			NPS 4"											●	●						96922584
																●					99878954
			NPS 6"											❍	❍						96922585
																●	●	●	●	●	96922586
			NPS 8"												❍						96922588
																❍	❍	❍	❍	❍	96922589
TM068942	Complete auto-coupling unit with base stand, guide shoe, guide rail bracket, bolts and gasket	DIN	DN 80									●	●								92621424
			DN 100											●	●						99542231
			DN 150												❍	●	●	●			93187559
			DN 200												❍	❍	❍	❍			93450925
		KS/JIS	DN 80									●	●								93187607
			DN 100											●	●						99565291
			DN 150												❍	●	●	●			93187559
			DN 200												❍	❍	❍	❍			93450924
		ANSI	NPS 3"									●	●								93187557
			NPS 4"											●	●						93187558
			NPS 6"												❍	●	●	●			93187590
			NPS 8"												❍	❍	❍	❍			93450927
TM070092	Outlet flange with gasket and bolts		DN 100											❍							96922596
																					99878887
			DN 150											❍	❍						96922597
																❍	❍	❍			96922598
			DN 200												❍						96922600
																❍	❍	❍	❍	❍	96922601
TM070093	Steel. Outlet flange with bolts and nuts.	DIN	DN 80									●	●								Contact Grundfos
			DN 100											●	●						
			DN 150											❍	❍	●	●	●	●	●	
			DN 200												❍	❍	❍	❍	❍	❍	
		KS/JIS	DN 80									●	●								
			DN 100											●	●						
			DN 150											❍	❍	●	●	●	●	●	
			DN 200												❍	❍	❍	❍	❍	❍	
		ANSI	NPS 3"									●	●								
			NPS 4"											●	●						
			NPS 6"											❍	❍	●	●	●	●	●	
			NPS 8"												❍	❍	❍	❍	❍	❍	
	LC 231			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Contact Grundfos
TM072139	LC 241			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Contact Grundfos

Pictures	Description	Dimensions	DWK.O [kW]								DWK.H [kW]		DWK.E, DWK.H [kW]							Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	11	15	22	30	37	45	55	75	90	
 TM068950	GU01monitoring system[4]		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	96922603
 TM066951	GU02 monitoring system					•	•	•	•	•	•	•	•	•	•	•	•	•	•	96922604
 TM016982	Float switch	2 m cable					•	•	•	•	•	•	•	•	•	•	•	•	•	Contact Grundfos
		4 m cable					•	•	•	•	•	•	•	•	•	•	•	•	•	
		6 m cable					•	•	•	•	•	•	•	•	•	•	•	•	•	
		10 m cable					•	•	•	•	•	•	•	•	•	•	•	•	•	
 TM070096	Bracket for float switch	Flange JIS 10K 100A					•	•	•	•	•	•	•	•	•	•	•	•	•	Contact Grundfos

1) DIN flanges up to DN 150 are according to DIN 2633 PN10/PN16.

2) DIN flanges DN 200 and up are according to DIN 2362.

3) ANSI flanges according to ASME b 16.5 #150 lbs.

4) for the Chinese market, available upon request

12. Grundfos Product Center

Online search and sizing tool to help you make the right choice.
From the international view, you can select your specific country to view the product range available to you.
International view: *https://product-selection.grundfos.com*

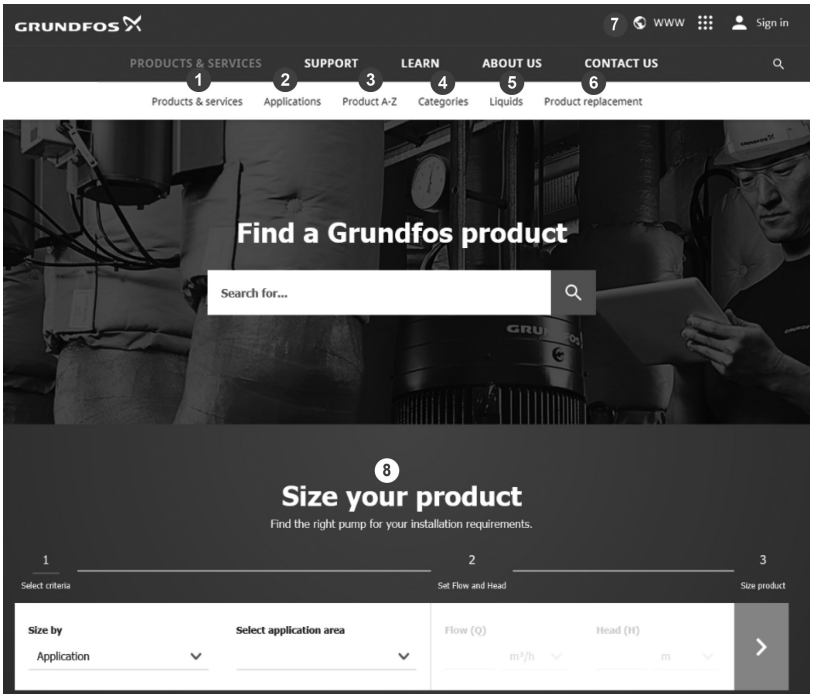
All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc., in PDF format.





When you select your country, you see the menus below. Note that some menus may not be available depending on the country.
Example: *https://product-selection.grundfos.com/uk*

Pos.	Description
1	**Products & services** enables you to find products and documents by typing a product number or name into the search field.
2	**Applications** enables you to choose an application to see how Grundfos can help you design and optimize your system.
3	**Products A-Z** enables you to look through a list of all the Grundfos products.
4	**Categories** enables you to look for a product category.
5	**Liquids** enables you to find pumps designed for aggressive, flammable or other special liquids.
6	**Product replacement** enables you to find a suitable replacement.
7	**WWW** enables you to select the country, which changes the language, the available product range and the structure of the website.
8	**Sizing** enables you to size a product based on your application and operating conditions.

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