SUBMERSIBLE PUMPS

INDEX

DURABLE AND COMPACT DEWATERING PUMPS
– designed for simplicity and use

If you're a contractor working with building or infrastructure construction, the DWK range offers quality pump solutions that remove all rainwater and ground water from your construction area.

The DWK range of submersible contractor pumps from Grundfos combines durable performance with ease of installation, providing an immediate return on your dewatering solution investment.

The solid cast iron construction and narrow design means the DWK range is ideal for pits, for temporary or fixed installation, in fact any situation where effective dewatering is needed.

If high-pressure pump performance unhindered by sand or other abrasives is required, or if the available power supply is limited, the DWK range provides the effective dewatering solution for you.

For full details on your options, go online. everything you need to know is there. **Begin at: grundfos.com/water-utility**

EFFECTIVE DEWATERING
– when and where you need it

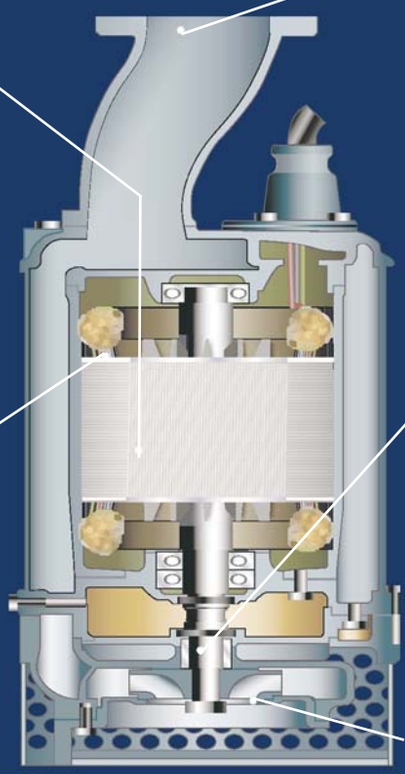
The DWK range offers you an immediate return on your dewatering solution investment

- Underground drainage pits in buildings, where limited space and the need for high pressure matches the combination of motor size and pressure capabilities offered by the DWK range.
- Courts drainage solutions, with similar requirements for high pressure and limited space.
- Industrial applications, where water from various processes and functions is collected in drainage pits and then pumped onwards.
- In addition, the DWK-R version offers increased robustness where wear-resistance and maintained performance is required, for example building and infrastructure construction, tunnels and for industry.

PUMP FEATURES
– and what they offer you

High efficiency motor
The long-life motor used in the DWK range keeps operating costs down and maintains even performance.

Hose or flange connection on the top
Top-discharge with different connection types available for multiple use of the pump, depending on conditions and specific needs.



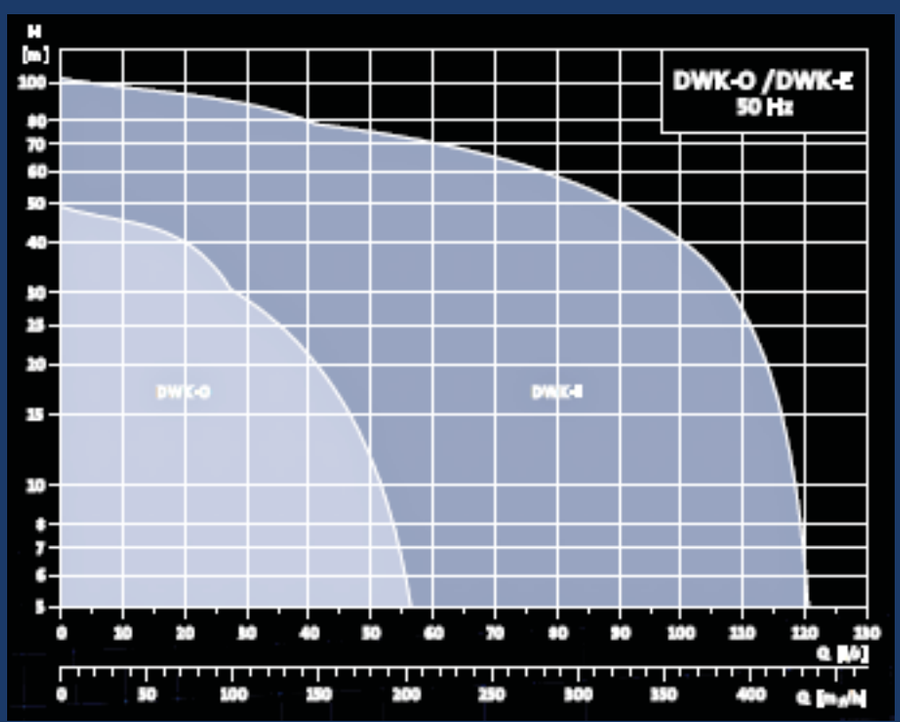
Shaft seal
The triple-system sealing provides longer operation and less downtime, and consists of a double mechanical seal with an easily replaceable lip seal.

Integrated thermal protection
The integrated circuit-cut protects the motor from overheating and operates independently, removing the need for constant monitoring.

Easy maintenance oil plug
The ability to inspect oil condition in the seal chamber makes it easy for you to plan maintenance and service your pump.

Highly efficient and wear-resistant impeller
The stainless steel high-chrome impeller maintains its performance, ensuring an increased lifetime.

PERFORMANCE OVERVIEW



Discharge (mm)	Model no	Out put (kW)	Head (m)	Flow Q(L/sec)	Flow Q(L/min)	Flow Q(m^3/min)	Weight (kg)	Page no
50	DWK.O.6.50.22.5.0D	2.2	25	9.4	566.4	0.6	45	**7**
80	DWK.O.10.80.37.5.0D	3.7	30	19.0	1,140.0	1.1	81	**11**
80	DWK.O.13.80.55.5.0D	5.5	34	17.7	1,062.0	1.1	110	**15**
100	DWK.O.13.100.75.5.0D	7.5	38	21.2	1,272.0	1.3	156	**20**
100	DWK.O.13.100.110.5.0D	11	45	30.7	1,842.0	1.8	190	**25**
100	DWK.O.13.100.150.5.0D	15	49	33.6	2,016.0	2.0	195	**30**
150	DWK.O.13.150.150.5.0D	15	40	58.8	3,528.0	3.5	195	**35**
150	DWK.E.10.150.220.5.1D	22	68	41.4	2,484.0	2.5	427	**40**
150	DWK.E.10.150.300.5.1D	30	71	44.6	2,676.0	2.7	452	**45**
150	DWK.E.10.150.370.5.1D	37	73	43.3	2,598.0	2.6	839	**50**
150	DWK.E.10.150.450.5.1D	45	84	53.6	3,216.0	3.2	858	**55**
200	DWK.E.10.200.450.5.1D	45	50	97.0	5,820.0	5.8	860	**60**
150	DWK.E.10.150.550.5.1D	55	100	58.0	3,480.0	3.5	921	**65**
200	DWK.E.10.200.550.5.1D	55	59	96.3	5,778.0	5.8	923	**70**
200	DWK.E.10.200.750.5.1D	75	81	78.0	4,680.0	4.7	973	**75**
200	DWK.E.10.200.900.5.1D	90	85	120.0	7,200.0	7.2	1030	**80**

DWK.O.6.50.22.5.0D
DWK.O.10.80.37.5.0D
DWK.O.13.80.55.5.0D

DWK.O.13.100.75.5.0D
DWK.O.13.100.110.5.0D
DWK.O.13.100.150.5.0D
DWK.O.13.150.150.5.0D

DWK.E.10.150.220.5.1D
DWK.E.10.150.300.5.1D
DWK.E.10.150.370.5.1D
DWK.E.10.150.450.5.1D
DWK.E.10.200.450.5.1D
DWK.E.10.150.550.5.1D
DWK.E.10.200.550.5.1D
DWK.E.10.200.750.5.1D
DWK.E.10.200.900.5.1D

DWK.O.6.50.22.5.0D

Product No.: 96922645

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation.

The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type. The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating.

The pump is fitted with suction strainer, lifting handle and 10 m cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	N

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Actual impeller diameter:	147 mm
Type of impeller:	OPEN
Maximum particle size:	6 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	55 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

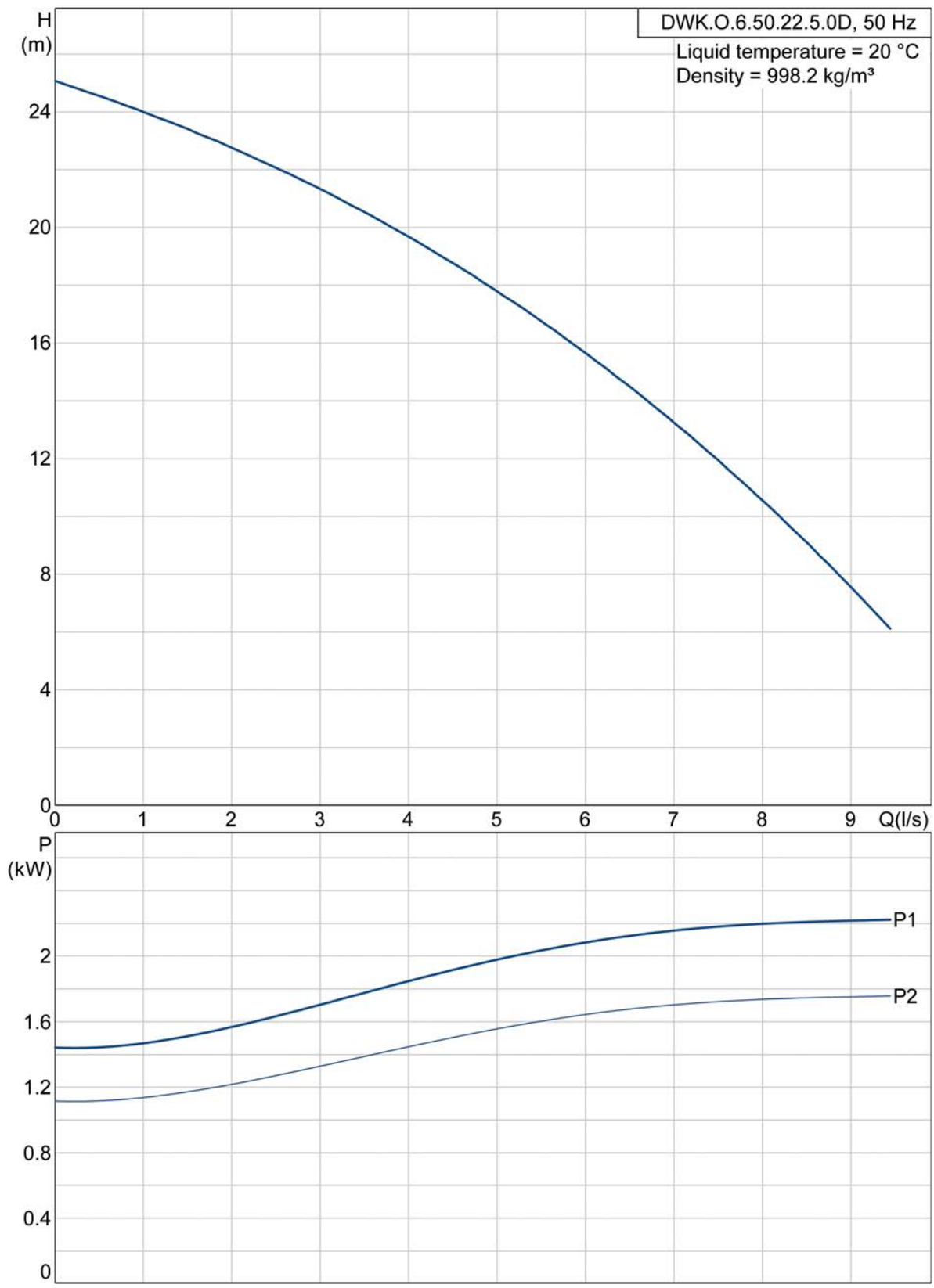
Maximum ambient temperature:	40 °C
Pump outlet:	DN50
Maximum installation depth:	25 m

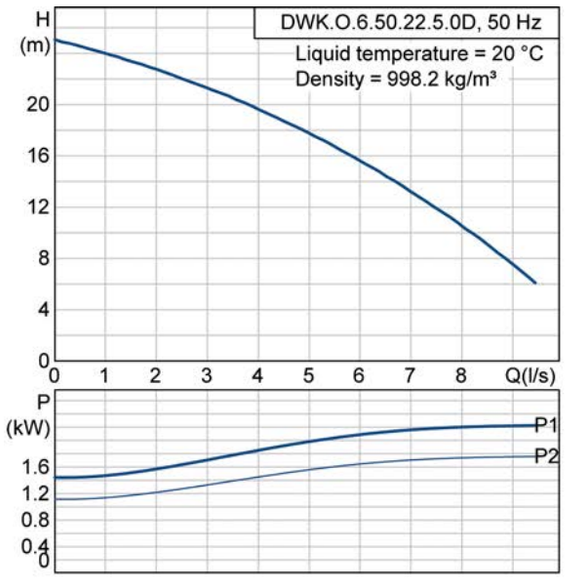
Electrical data:

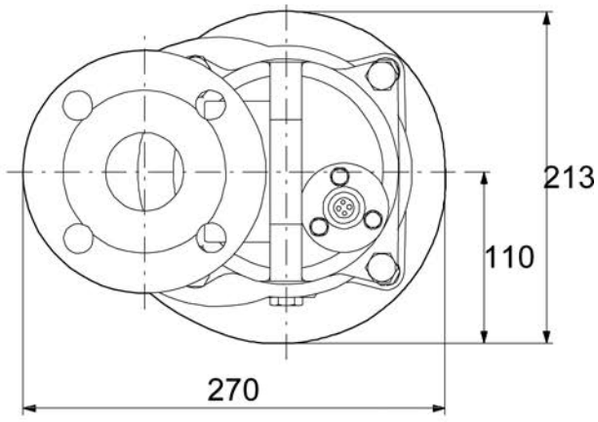
Number of poles:	2
Rated power - P2:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	5.1 A
Rated current at 3/4 load:	4.1 A
Rated current at 1/2 load:	3 A
Cos phi - power factor:	0,819
Cos phi - p.f. at 3/4 load:	0,789
Cos phi - p.f. at 1/2 load:	0,715
Rated speed:	2850 rpm
Motor efficiency at full load:	79,5 %
Motor efficiency at 3/4 load:	78,9 %
Motor efficiency at 1/2 load:	77,3 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

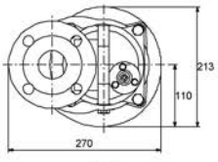
Others:

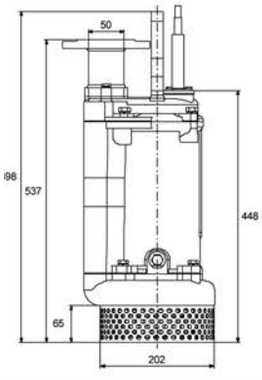
Net weight:	45 kg

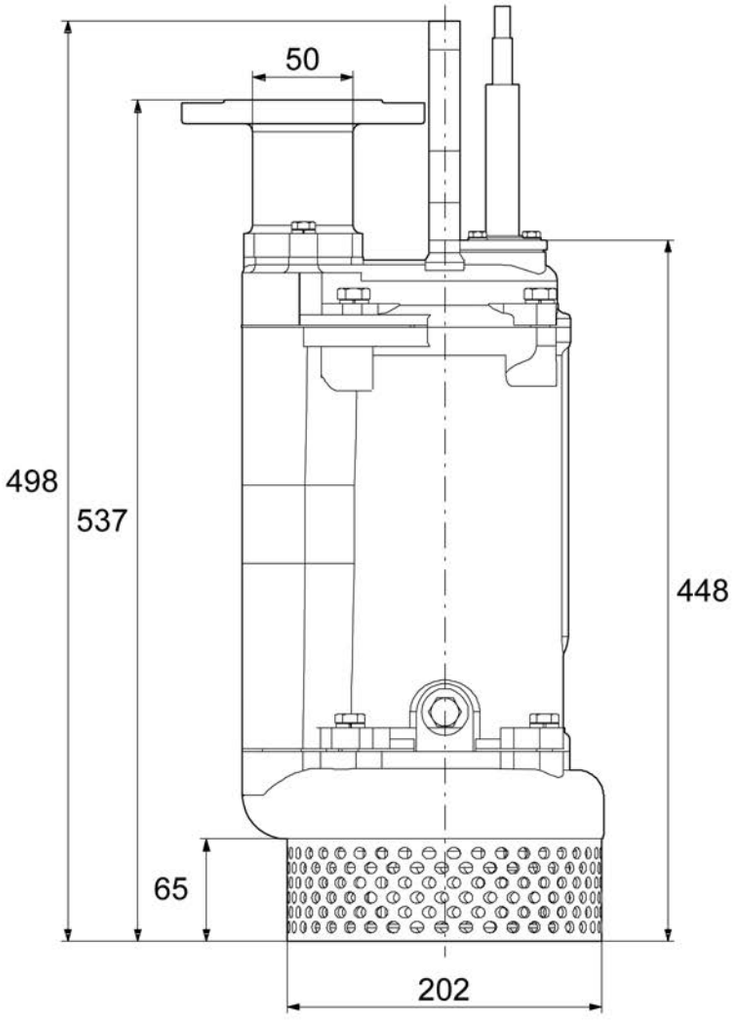

H
(m)
DWK.O.6.50.22.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
24
20
16
12
8
4
0
0
1
2
3
4
5
6
7
8
9
Q(l/s)
P
(kW)
P1
P2
2
1.6
1.2
0.8
0.4
0

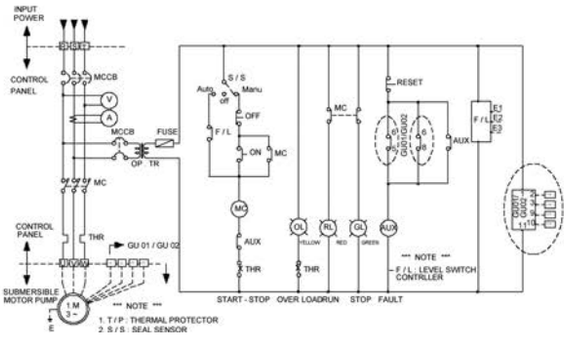




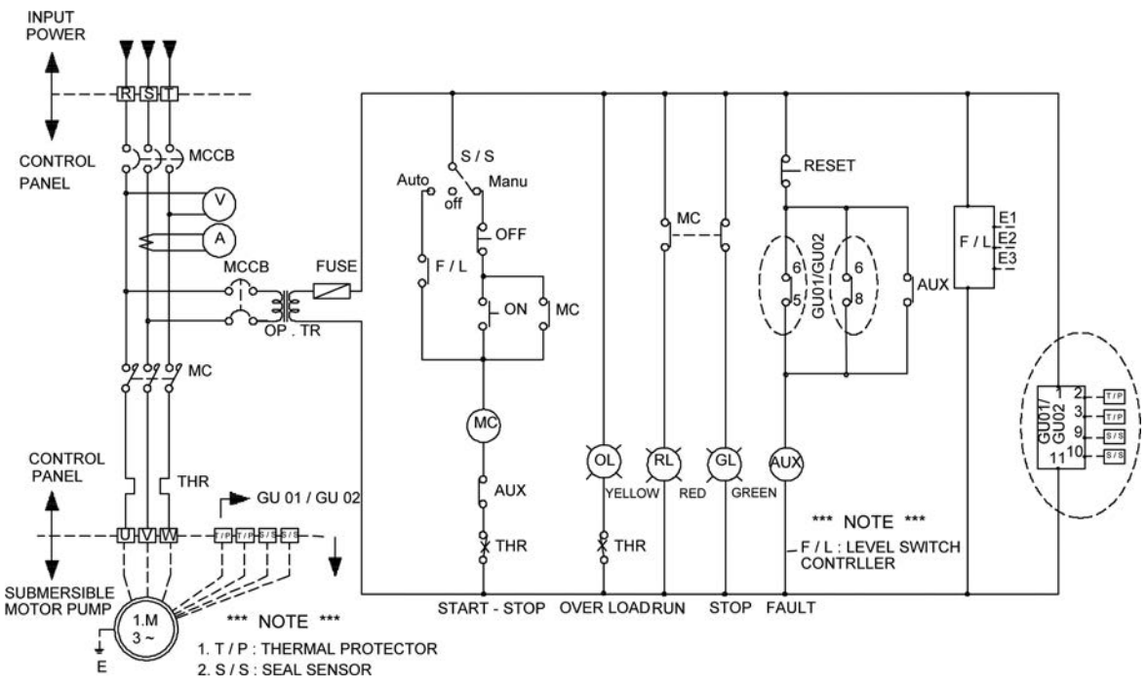








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.


INPUT POWER
R S T
CONTROL PANEL
MCCB
V
A
MCCB
FUSE
OP . TR
MC
CONTROL PANEL
THR
GU 01 / GU 02
U V W
SUBMERSIBLE MOTOR PUMP
1.M 3 ~
E
*** NOTE ***
1. T / P : THERMAL PROTECTOR
2. S / S : SEAL SENSOR
S / S
Auto
off
Manu
OFF
F / L
ON
MC
MC
AUX
THR
START - STOP
MC
OL
RL
GL
AUX
YELLOW
RED
GREEN
THR
OVER LOAD
RUN
STOP
RESET
GU01/GU02
6
5
6
8
AUX
FAULT
F / L
E1
E2
E3
GU01/ GU02
1
11
2
3
9
10
T / P
T / P
S / S
S / S
*** NOTE ***
F / L : LEVEL SWITCH CONTRLLER

DWK.O.10.80.37.5.0D

Product No.: 96922649

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation.

The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type. The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	N

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	20m
Actual impeller diameter:	160 mm
Type of impeller:	OPEN
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	46 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

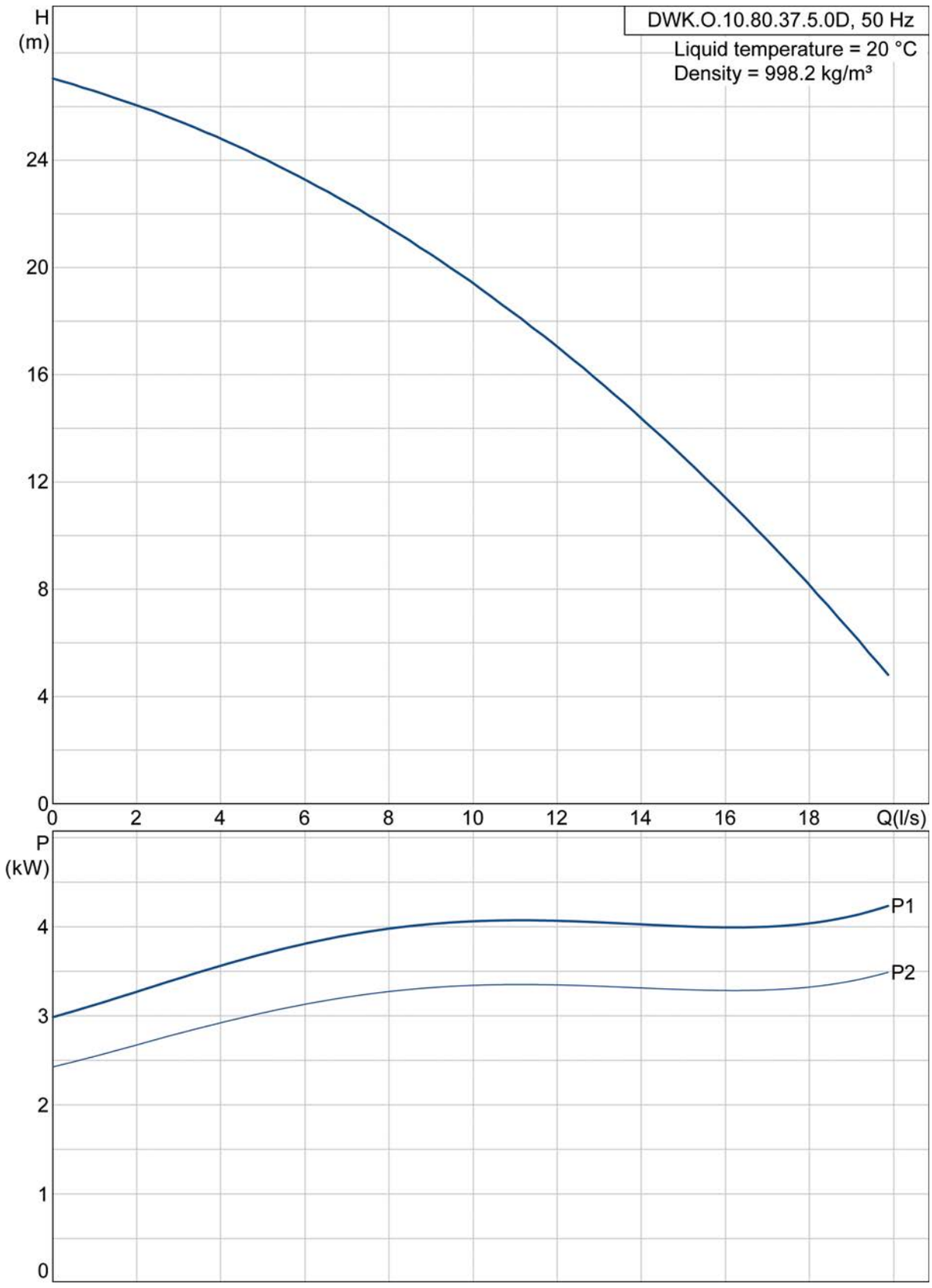
Maximum ambient temperature:	40 °C
Pump outlet:	DN80
Maximum installation depth:	25 m

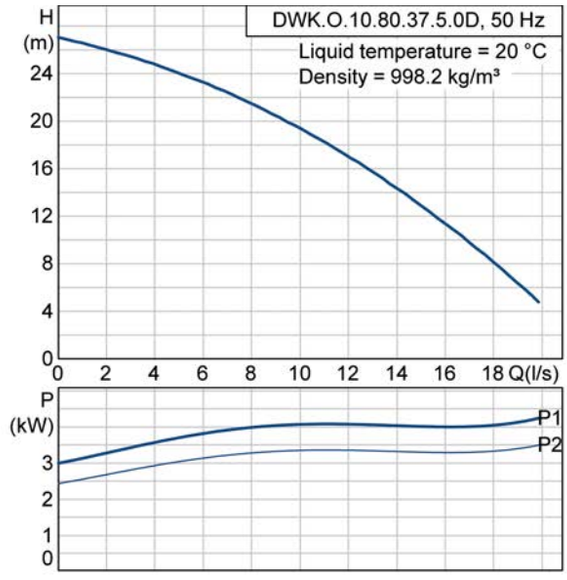
Electrical data:

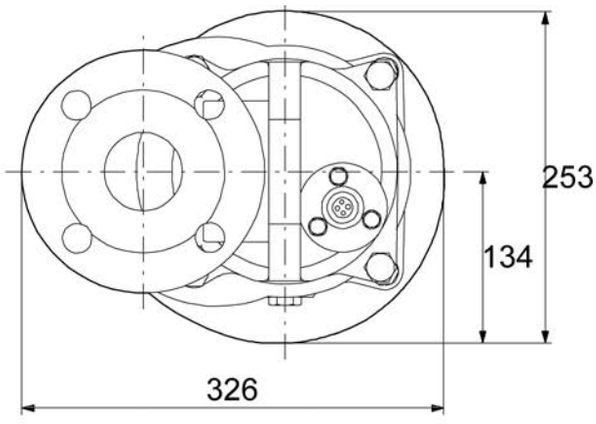
Number of poles:	2
Rated power - P2:	3.7 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	8.2 A
Rated current at 3/4 load:	6.5 A
Rated current at 1/2 load:	5 A
Cos phi - power factor:	0,83
Cos phi - p.f. at 3/4 load:	0,799
Cos phi - p.f. at 1/2 load:	0,725
Rated speed:	2850 rpm
Motor efficiency at full load:	82,5 %
Motor efficiency at 3/4 load:	81,9 %
Motor efficiency at 1/2 load:	80,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

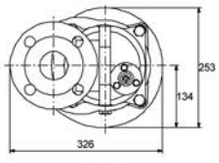
Others:

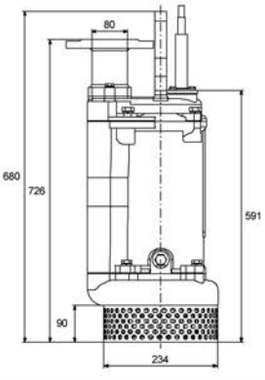
Net weight:	81 kg

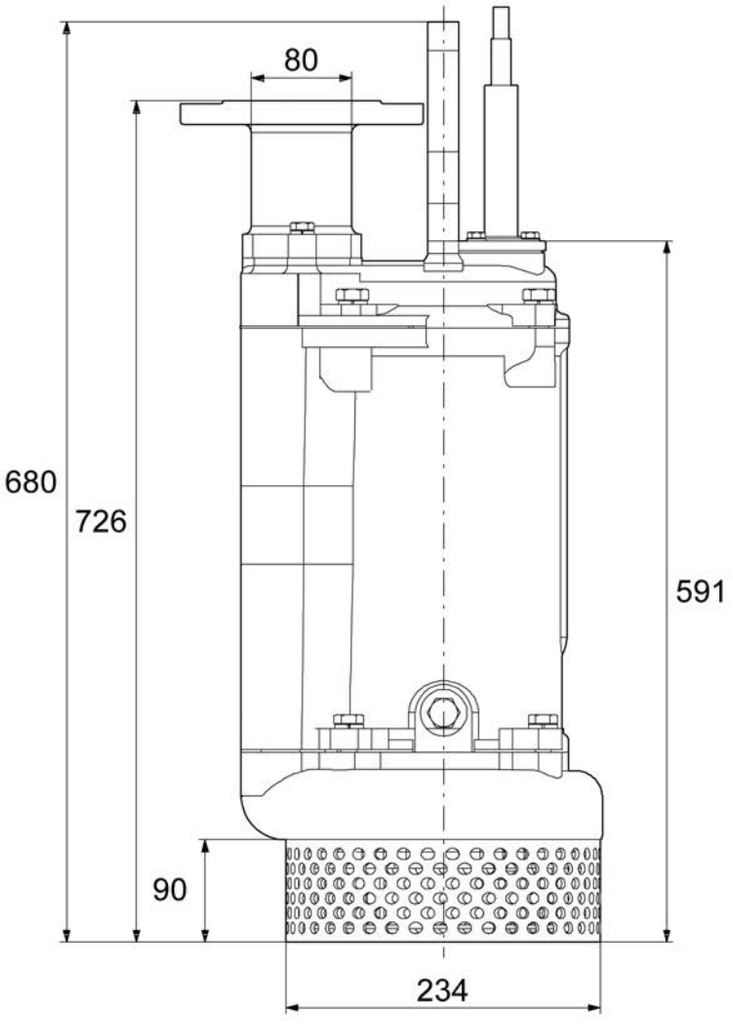

DWK.O.10.80.37.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
24
20
16
12
8
4
0
0
2
4
6
8
10
12
14
16
18
Q(l/s)
P
(kW)
4
3
2
1
0
P1
P2

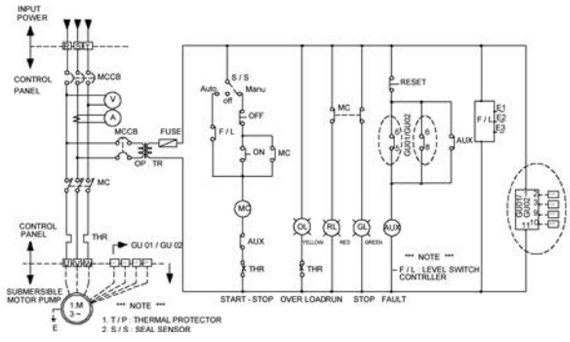












Note! All units are in [mm] unless others are stated.
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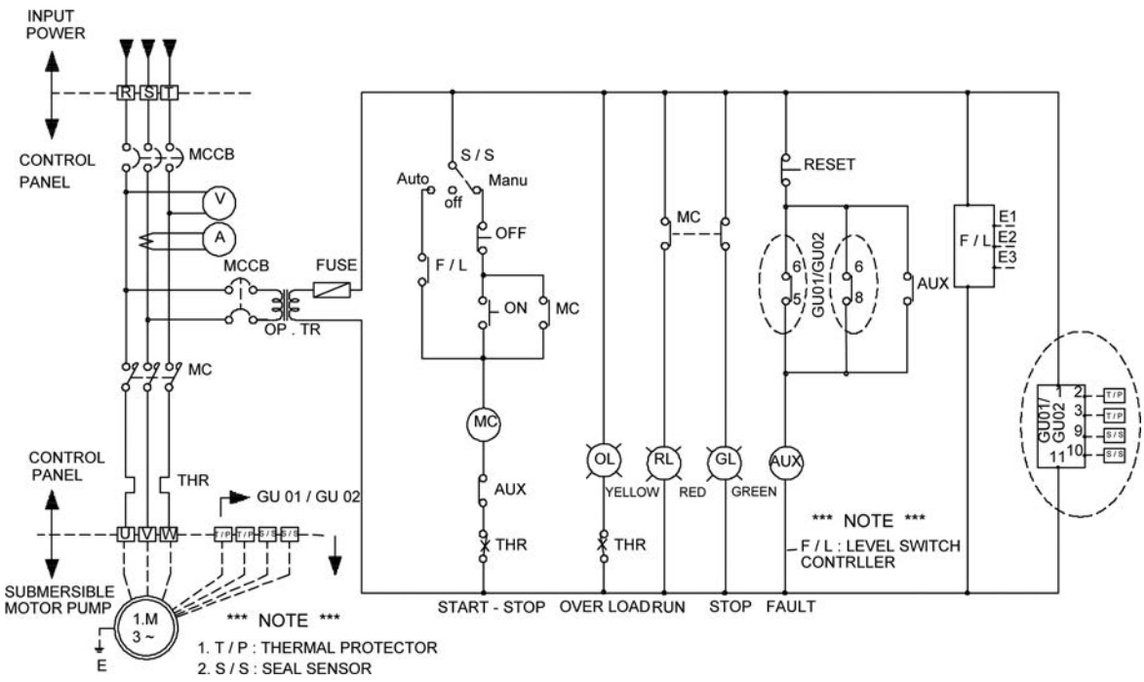

INPUT POWER
R S T
CONTROL PANEL
MCCB
V
A
MCCB
FUSE
OP . TR
MC
CONTROL PANEL
THR
GU 01 / GU 02
U V W
SUBMERSIBLE MOTOR PUMP
1.M 3 ~
E
*** NOTE ***
1. T / P : THERMAL PROTECTOR
2. S / S : SEAL SENSOR
S / S
Auto
off
Manu
OFF
F / L
ON
MC
MC
AUX
THR
START - STOP
MC
OL
RL
GL
AUX
YELLOW
RED
GREEN
THR
OVER LOAD
RUN
STOP
RESET
GU01/GU02
6
5
6
8
AUX
FAULT
F / L
E1
E2
E3
GU01/ GU02
1
2
3
9
10
11
*** NOTE ***
F / L : LEVEL SWITCH CONTRLLER

DWK.O.13.80.55.5.0D

Product No.: 96922653

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation.

The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type. The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	29m
Actual impeller diameter:	177 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	52 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

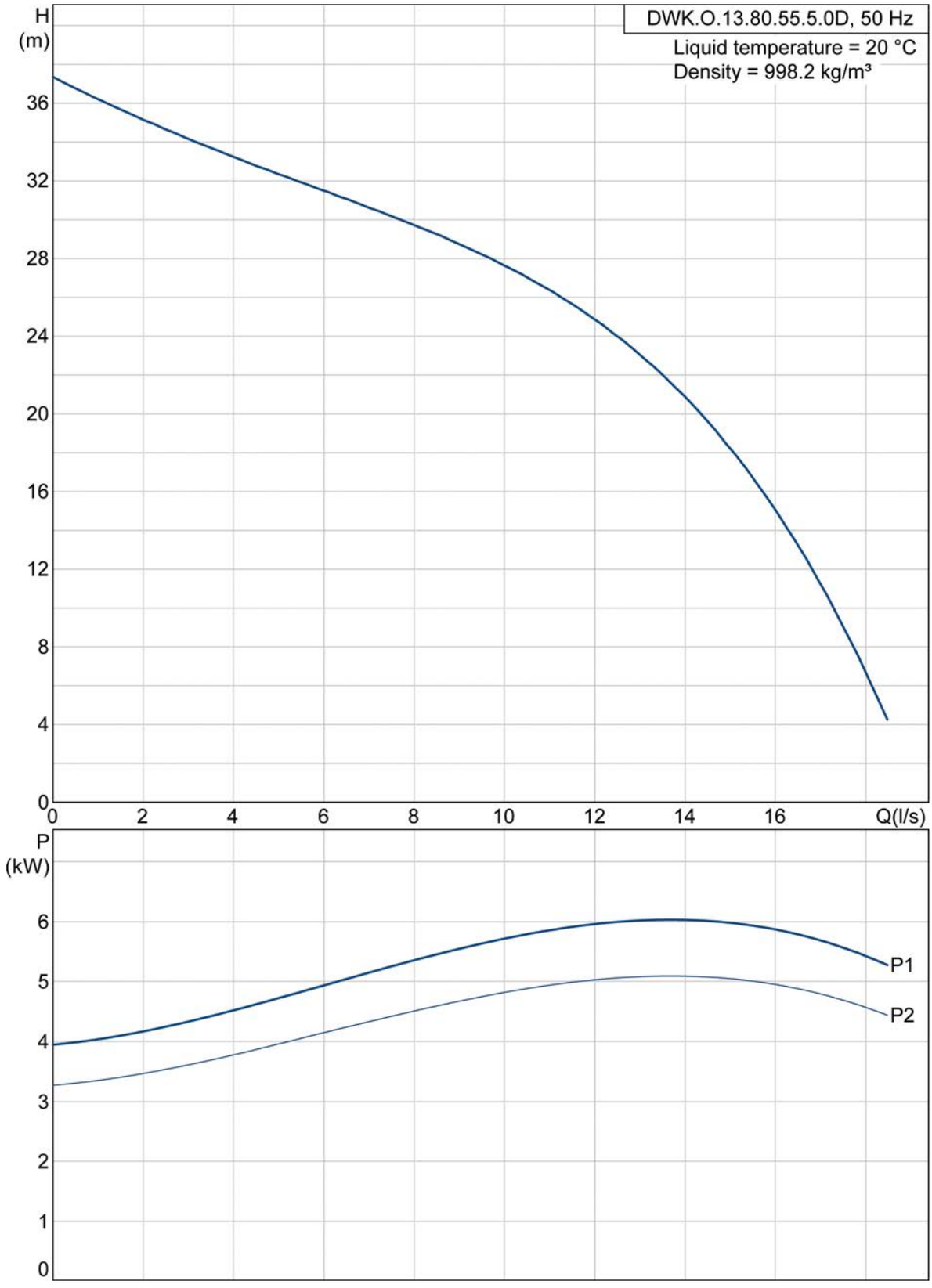
Maximum ambient temperature:	40 °C
Pump outlet:	DN80
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	11.9 A
Rated current at 3/4 load:	9.3 A
Rated current at 1/2 load:	7.1 A
Cos phi - power factor:	0,83
Cos phi - p.f. at 3/4 load:	0,799
Cos phi - p.f. at 1/2 load:	0,725
Rated speed:	2850 rpm
Motor efficiency at full load:	84,6 %
Motor efficiency at 3/4 load:	84 %
Motor efficiency at 1/2 load:	82,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

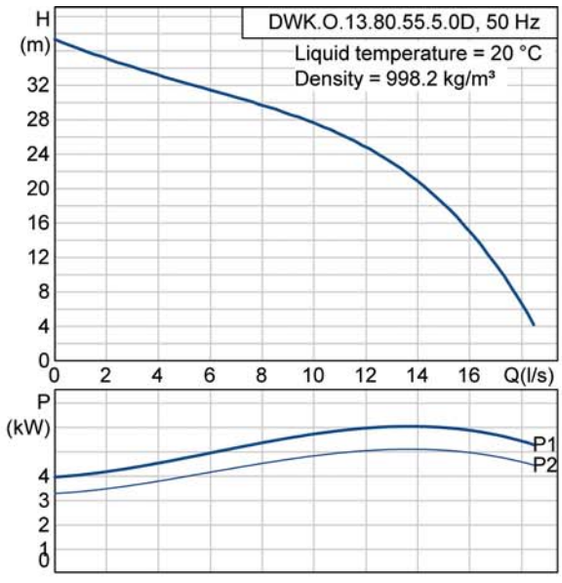
Net weight:	110 kg

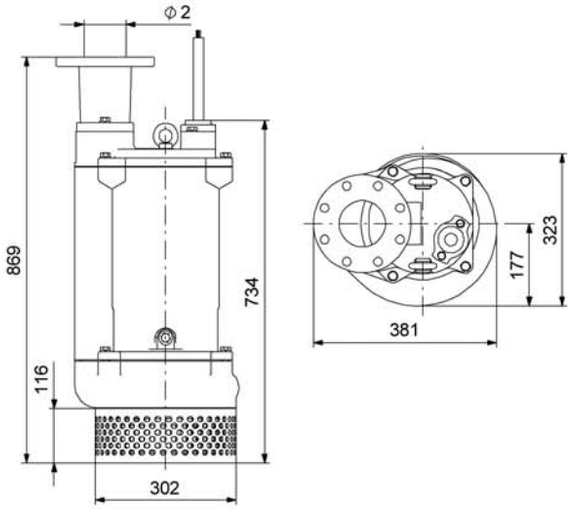

DWK.O.13.80.55.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
36
32
28
24
20
16
12
8
4
0
0
2
4
6
8
10
12
14
16
Q(l/s)
P
(kW)
6
5
4
3
2
1
0
P1
P2

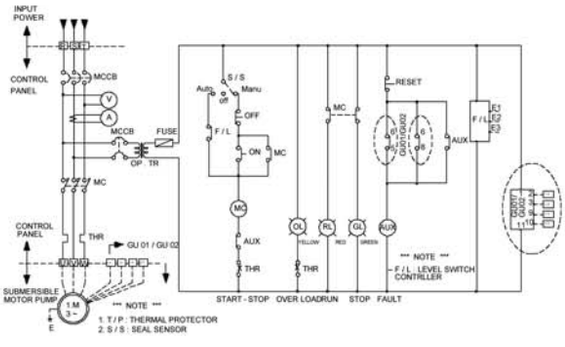
DWK.O.13.80.55.5.0D

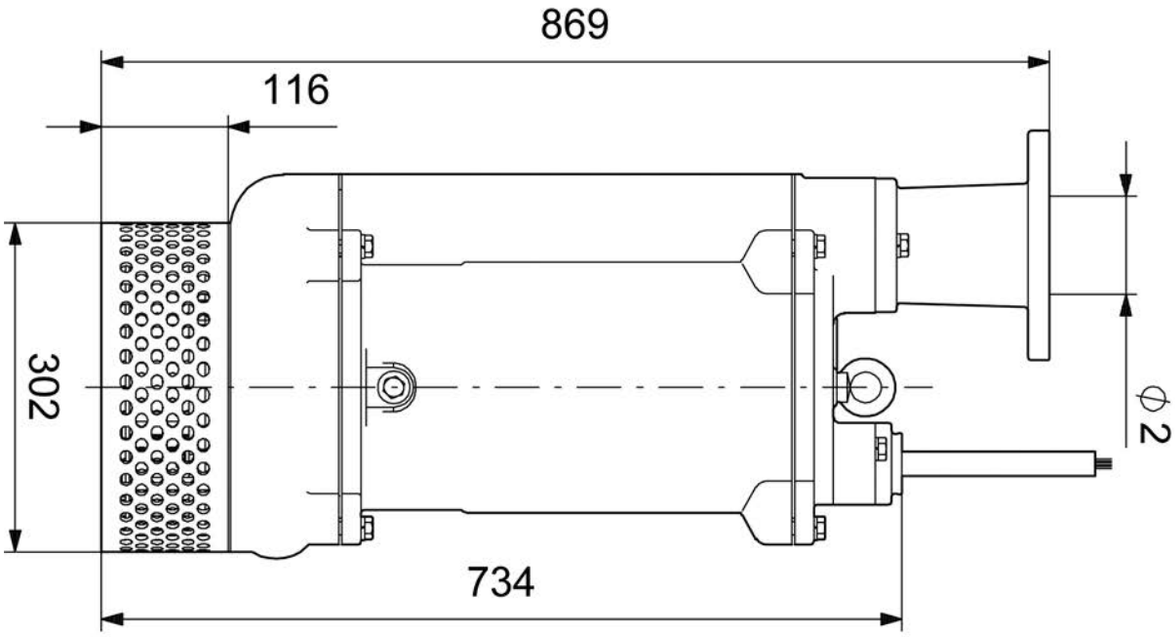
Product No.: 96922653

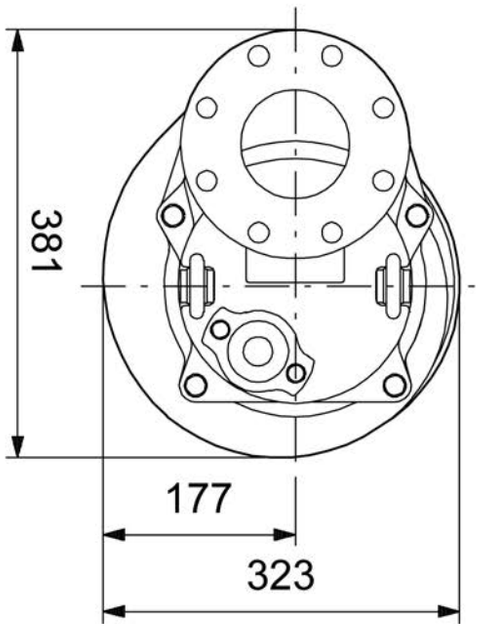
Description	Value
Product name:	DWK.O.13.80.55.5.0D
Product No:	96922653
EAN number:	5700313724406
Technical:	
Max flow:	17.7 l/s
Resulting head of the pump:	29 m
Head min:	2.5 m
Head max:	34.6 m
Actual impeller diameter:	177 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	52 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN80
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	11.9 A
Rated current at 3/4 load:	9.3 A
Rated current at 1/2 load:	7.1 A
Cos phi - power factor	0,83
Cos phi - p.f. at 3/4 load	0,799
Cos phi - p.f. at 1/2 load	0,725
Rated speed:	2850 rpm
Motor efficiency at full load:	84,6 %
Motor efficiency at 3/4 load:	84 %
Motor efficiency at 1/2 load:	82,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X2.5MM2+4X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	110 kg



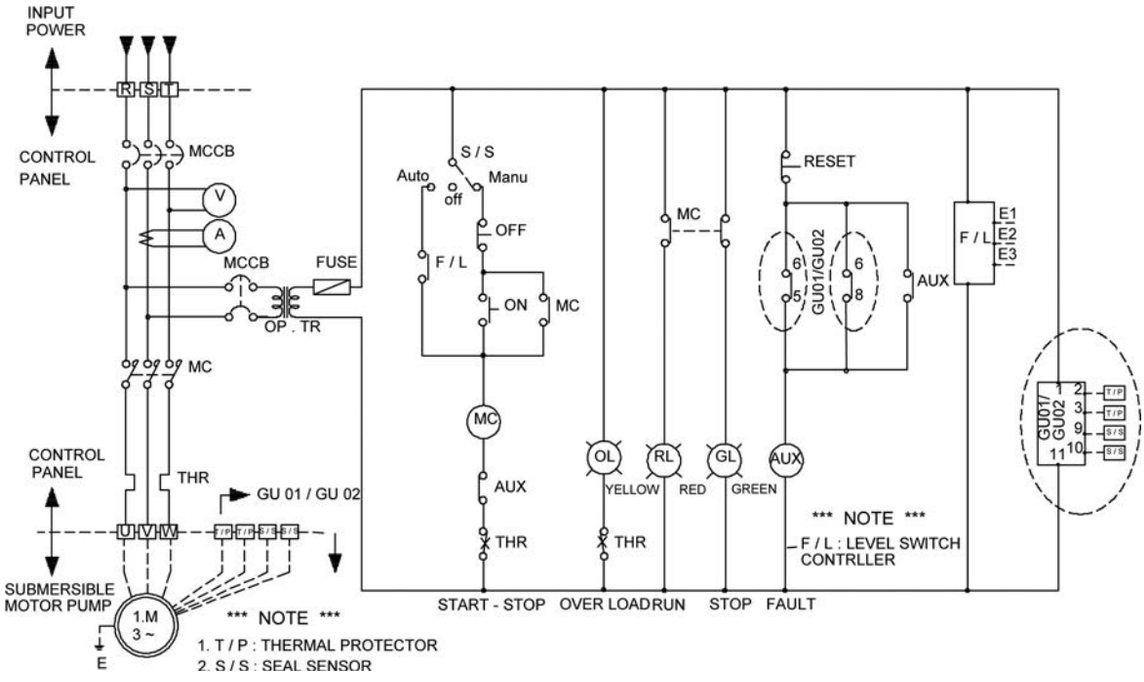








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

DWK.O.13.100.75.5.0D

Product No.: 96922657

Grundfos DWK pump is a submersible pump for dewatering and drainage a
tions.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and perı
installation.

The pump is cast iron, with vertical discharge port and integrated submersi
3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impelle
The pump is equipped with a temperature bi-metal sensor for motor protec
case of overheating. The pump is fitted with suction strainer, lifting handle
m cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	33.3m
Actual impeller diameter:	187 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	61 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

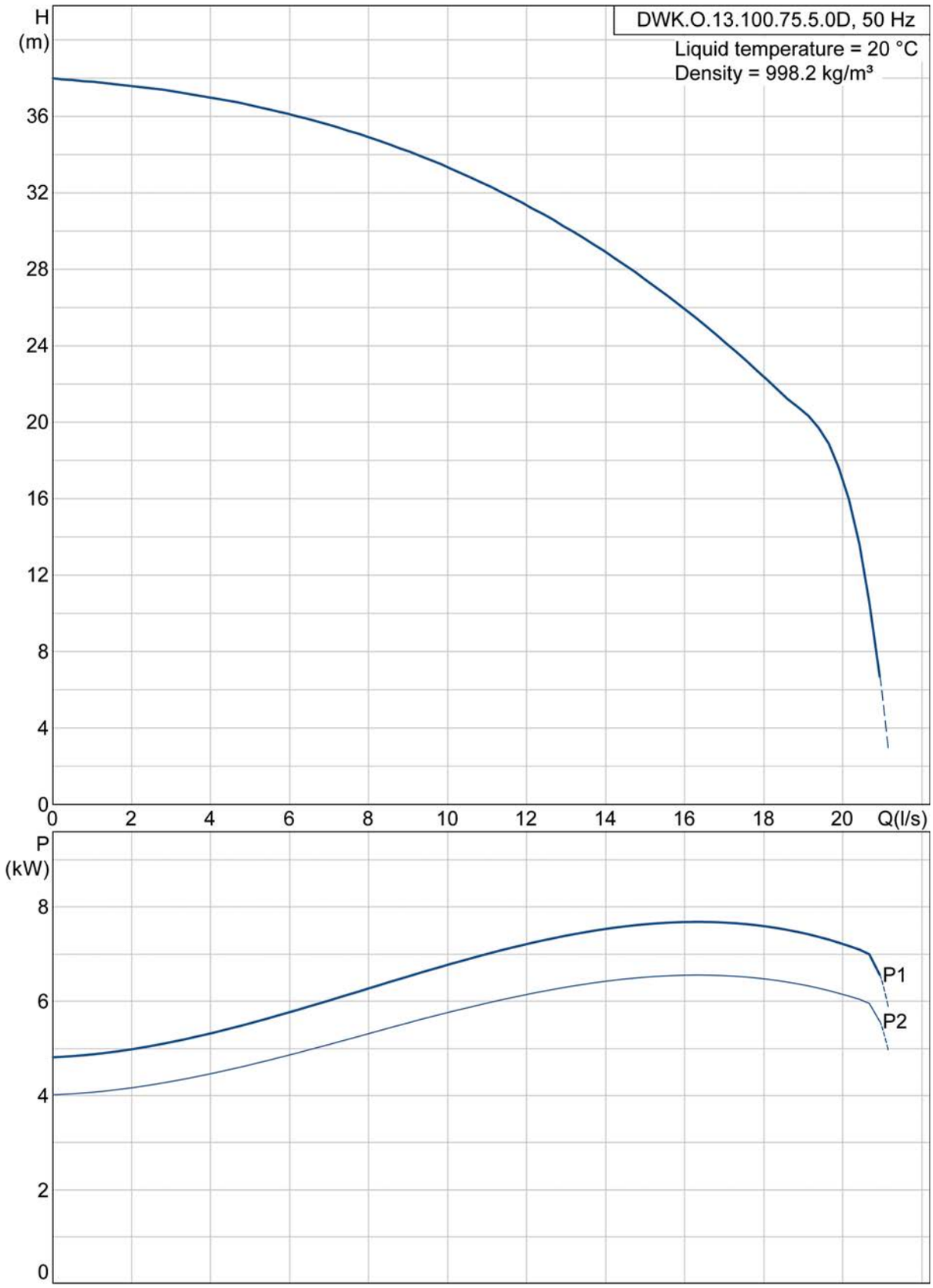
Maximum ambient temperature:	40 °C
Pump outlet:	DN110
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	16 A
Rated current at 3/4 load:	12.5 A
Rated current at 1/2 load:	9.6 A
Cos phi - power factor:	0,83
Cos phi - p.f. at 3/4 load:	0,799
Cos phi - p.f. at 1/2 load:	0,725
Rated speed:	2850 rpm
Motor efficiency at full load:	85,6 %
Motor efficiency at 3/4 load:	85 %
Motor efficiency at 1/2 load:	83,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

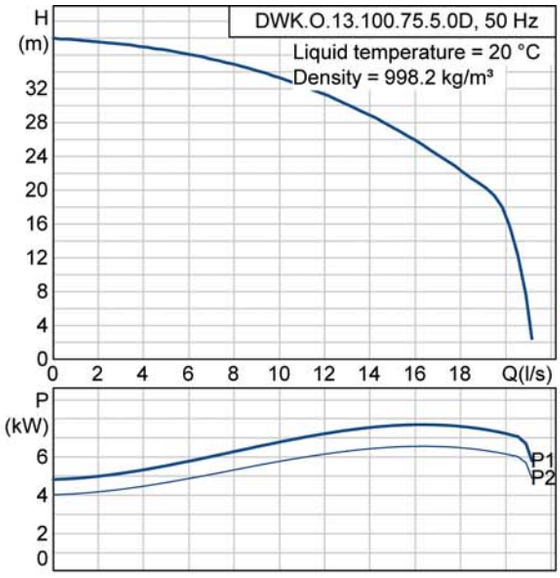
Net weight:	156 kg

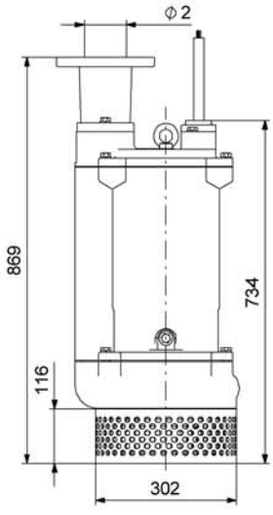

DWK.O.13.100.75.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
36
32
28
24
20
16
12
8
4
0
0
2
4
6
8
10
12
14
16
18
20
Q(l/s)
P
(kW)
8
6
4
2
0
P1
P2

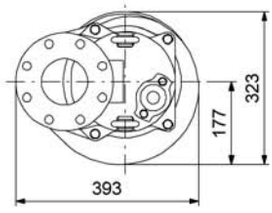
DWK.O.13.100.75.5.0D

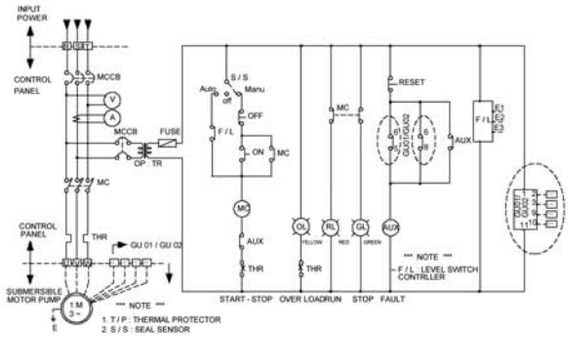
Product No.: 96922657

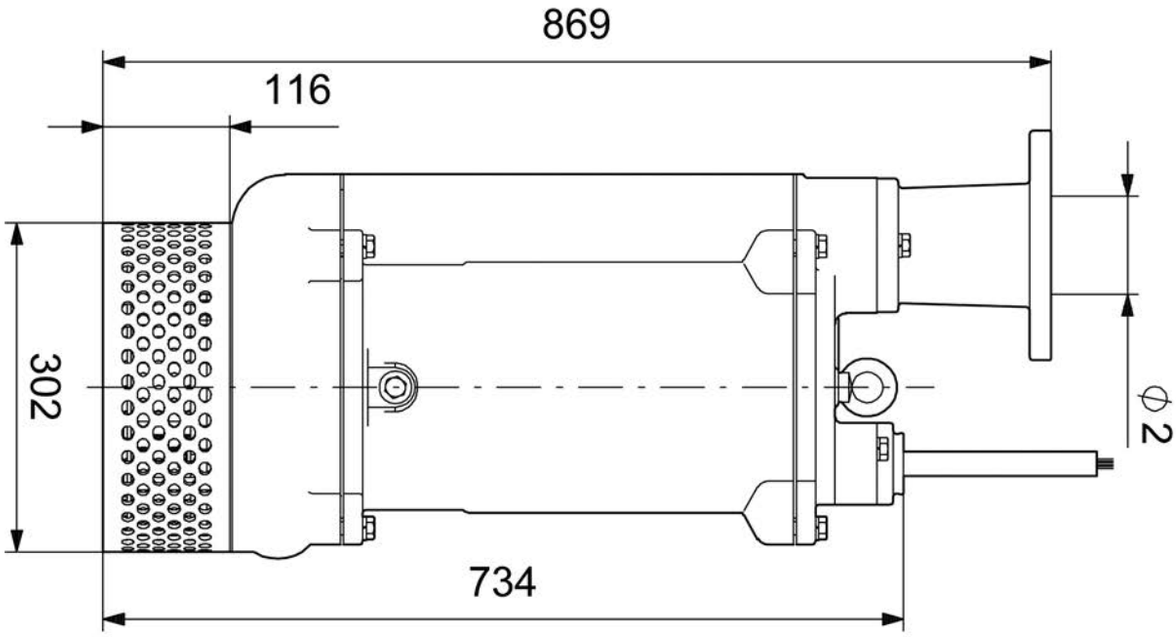
Description	Value
Product name:	DWK.O.13.100.75.5.0D
Product No:	96922657
EAN number:	5700313724444
Technical:	
Max flow:	21.2 l/s
Resulting head of the pump:	33.3 m
Head min:	2.5 m
Head max:	38 m
Actual impeller diameter:	187 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	61 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN100
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	16 A
Rated current at 3/4 load:	12.5 A
Rated current at 1/2 load:	9.6 A
Cos phi - power factor	0,83
Cos phi - p.f. at 3/4 load	0,799
Cos phi - p.f. at 1/2 load	0,725
Rated speed:	2850 rpm
Motor efficiency at full load:	85,6 %
Motor efficiency at 3/4 load:	85 %
Motor efficiency at 1/2 load:	83,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X4.0MM2+4X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	156 kg

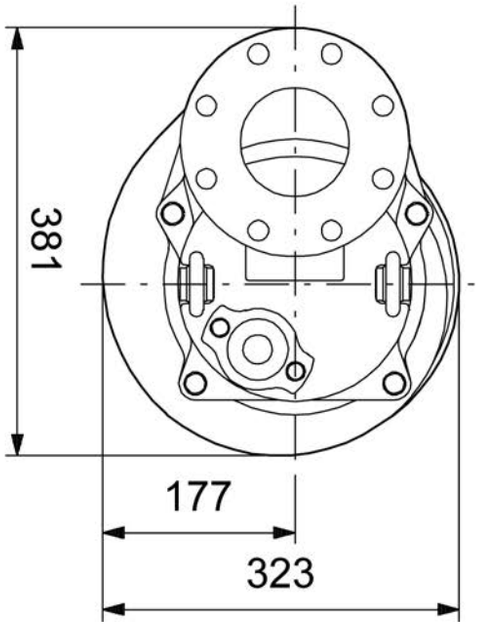




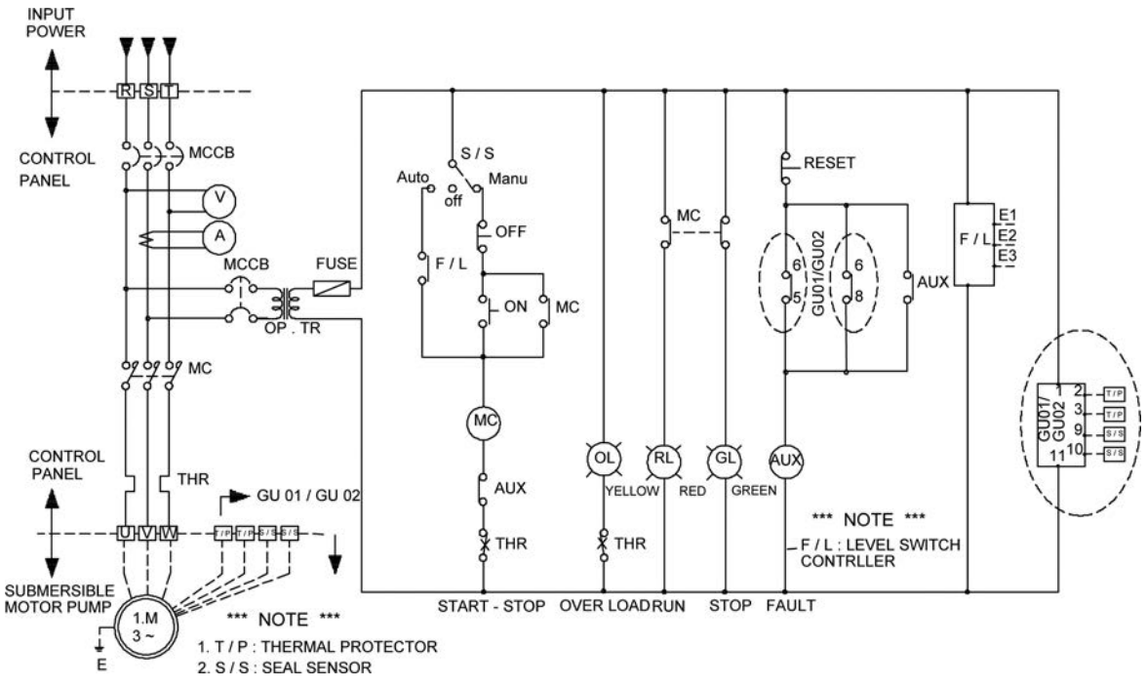








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

DWK.O.13.100.110.5.0D

Product No.: 96922661

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation.

The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type. The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	41.2m
Actual impeller diameter:	189 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	71 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

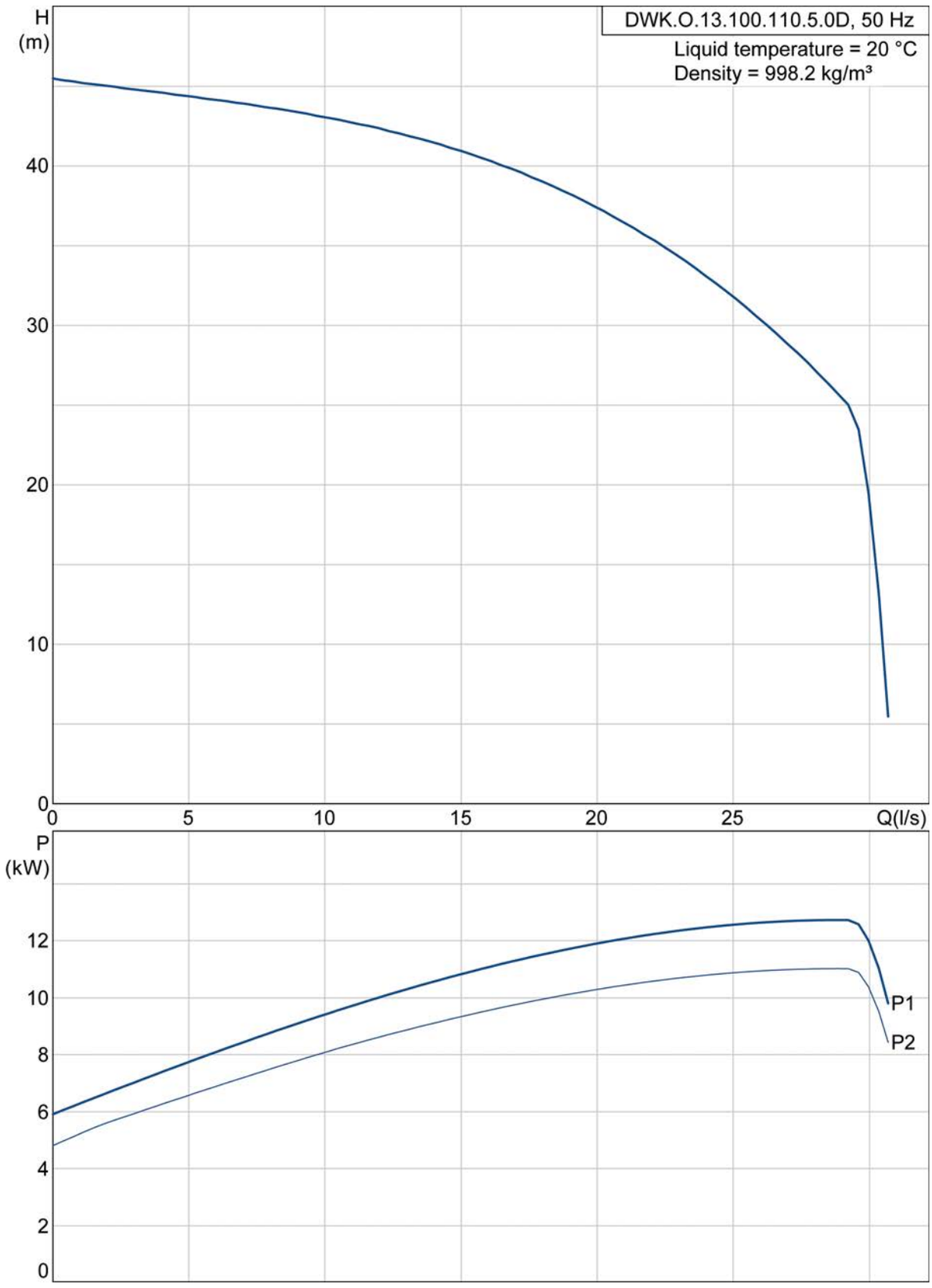
Maximum ambient temperature:	40 °C
Pump outlet:	DN110
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	23 A
Rated current at 3/4 load:	18.1 A
Rated current at 1/2 load:	13.7 A
Cos phi - power factor:	0,832
Cos phi - p.f. at 3/4 load:	0,801
Cos phi - p.f. at 1/2 load:	0,727
Rated speed:	2850 rpm
Motor efficiency at full load:	86,6 %
Motor efficiency at 3/4 load:	86 %
Motor efficiency at 1/2 load:	84,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

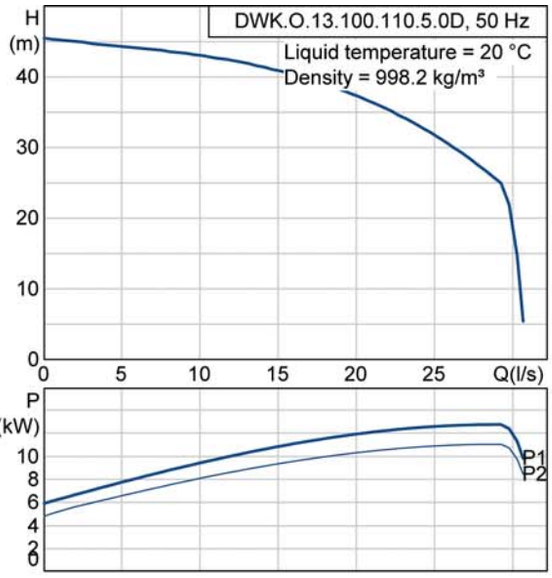
Net weight:	190 kg

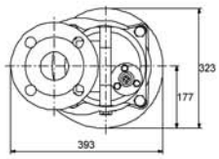

H
(m)
DWK.O.13.100.110.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
40
30
20
10
0
0
5
10
15
20
25
Q(l/s)
P
(kW)
12
10
8
6
4
2
0
P1
P2

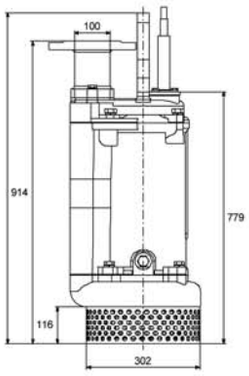
DWK.O.13.100.110.5.0D

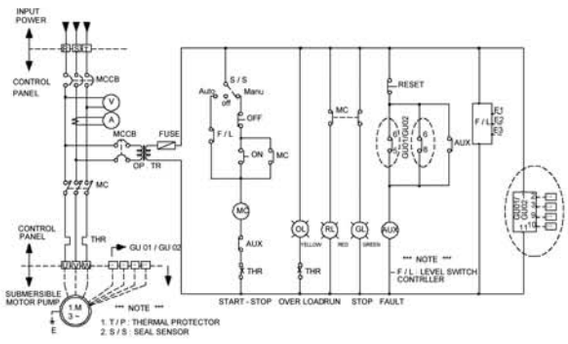
Product No.: 96922661

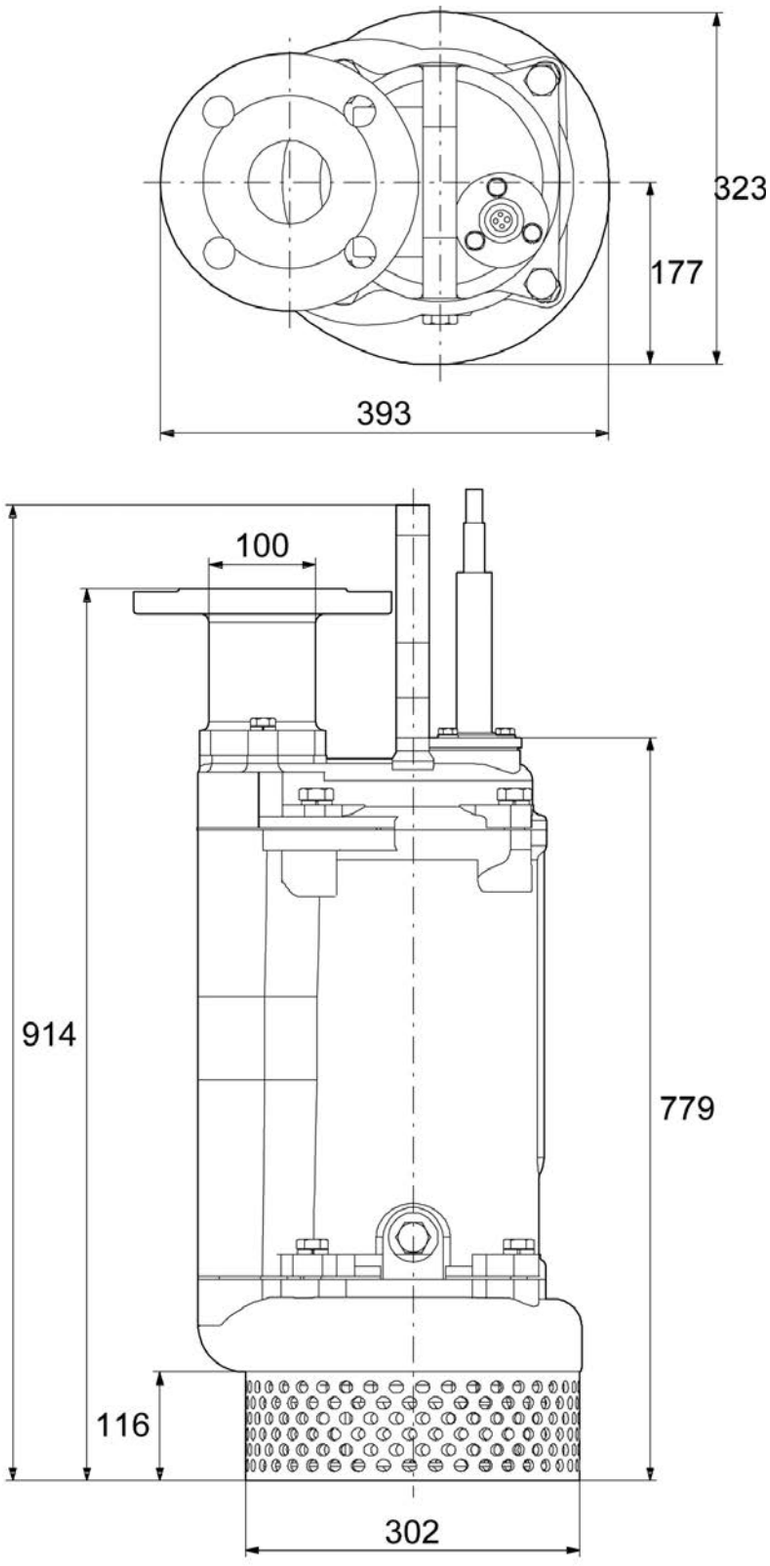
Description	Value
Product name:	DWK.O.13.100.110.5.0D
Product No:	96922661
EAN number:	5700313724482
Technical:	
Max flow:	30.7 l/s
Resulting head of the pump:	41.2 m
Head min:	5 m
Head max:	45.5 m
Actual impeller diameter:	189 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	71 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN100
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	23 A
Rated current at 3/4 load:	18.1 A
Rated current at 1/2 load:	13.7 A
Cos phi - power factor	0,832
Cos phi - p.f. at 3/4 load	0,801
Cos phi - p.f. at 1/2 load	0,727
Rated speed:	2850 rpm
Motor efficiency at full load:	86,6 %
Motor efficiency at 3/4 load:	86 %
Motor efficiency at 1/2 load:	84,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X6.0MM2+4X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	190 kg



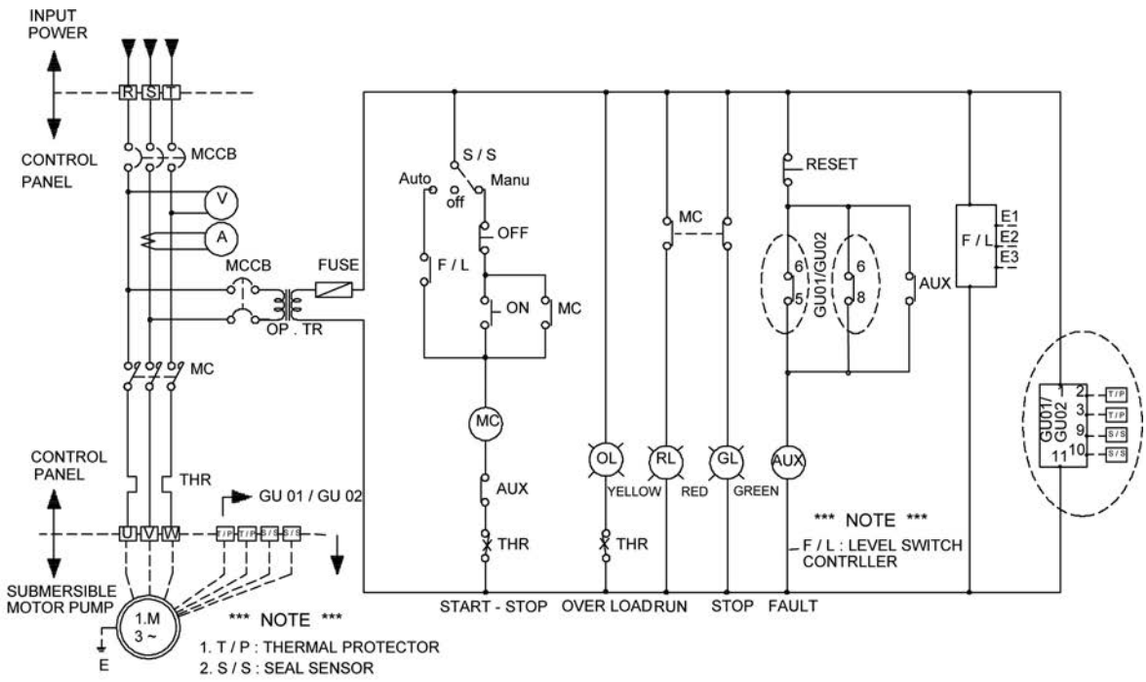








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.O.13.100.150.5.0D

Product No.: 96922665

Grundfos DWK pump is a submersible pump for dewatering and drainage a
tions.

The pump is suitable for pumping
- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and perı
installation.

The pump is cast iron, with vertical discharge port and integrated submersi
3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impelle
The pump is equipped with a temperature bi-metal sensor for motor protec
case of overheating. The pump is fitted with suction strainer, lifting handle
cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Actual impeller diameter:	195 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	65 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

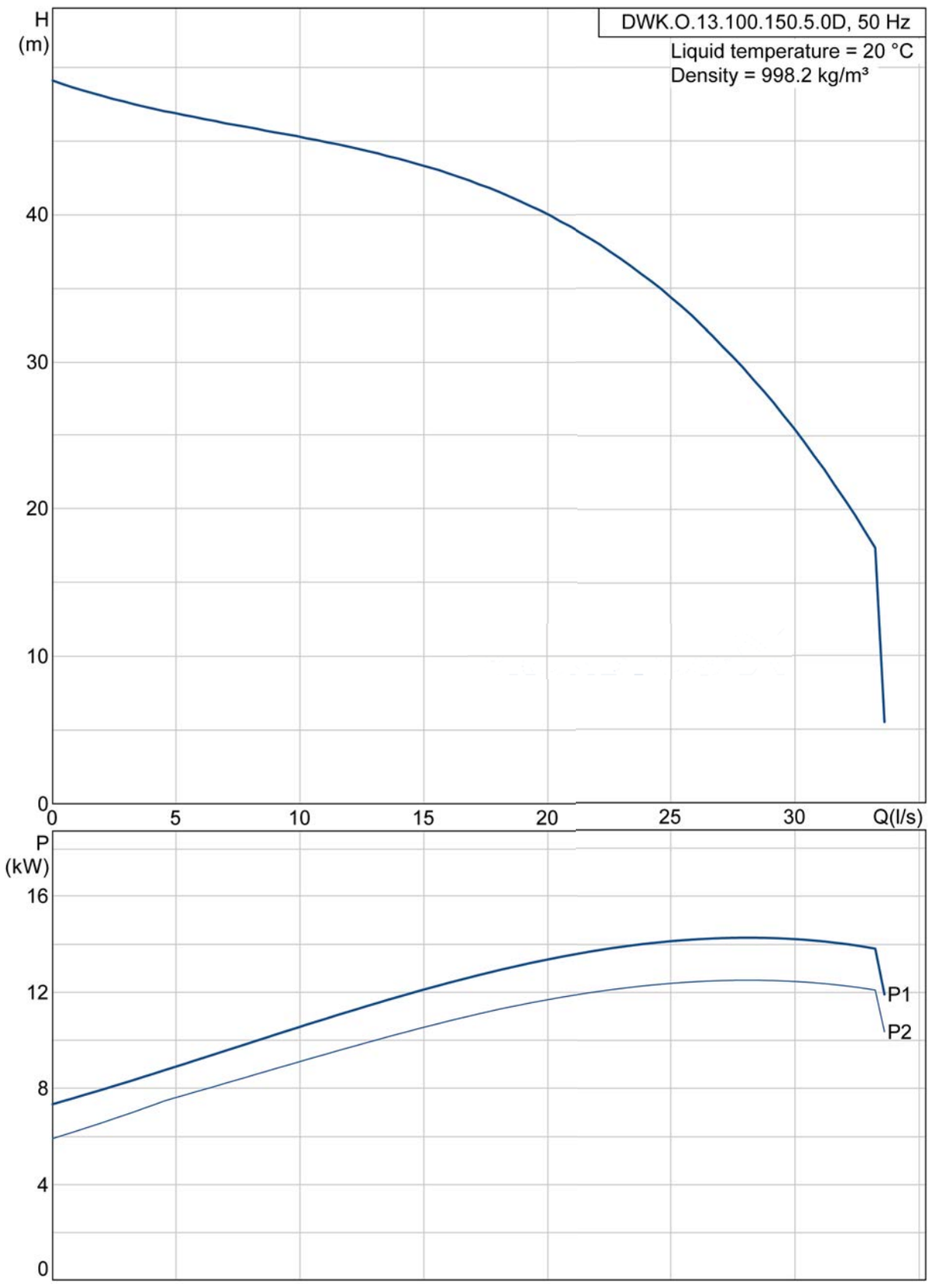
Maximum ambient temperature:	40 °C
Pump outlet:	DN100
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	31 A
Rated current at 3/4 load:	24 A
Rated current at 1/2 load:	18.3 A
Cos phi - power factor:	0,835
Cos phi - p.f. at 3/4 load:	0,804
Cos phi - p.f. at 1/2 load:	0,729
Rated speed:	2850 rpm
Motor efficiency at full load:	88 %
Motor efficiency at 3/4 load:	87.4 %
Motor efficiency at 1/2 load:	85.5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

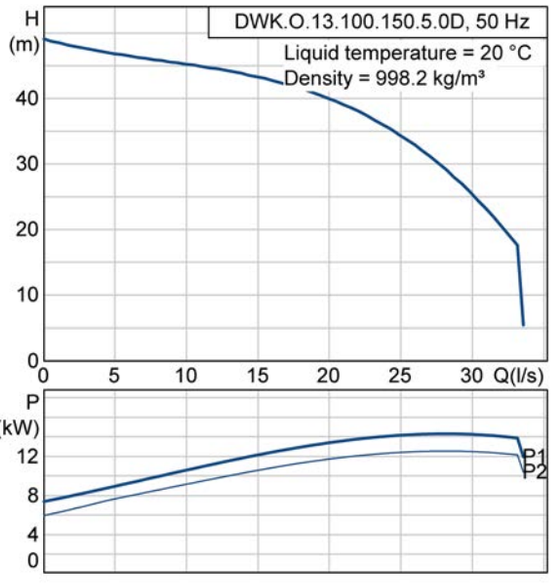
Net weight:	195 kg

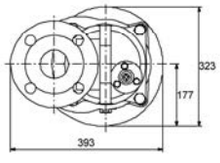

DWK.O.13.100.150.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
40
30
20
10
0
0
5
10
15
20
25
30
Q(l/s)
P
(kW)
16
12
8
4
0
P1
P2

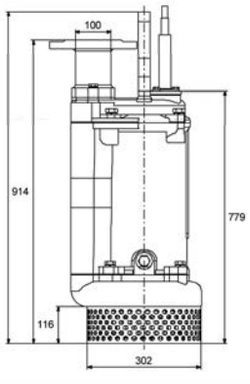
DWK.O.13.100.150.5.0D

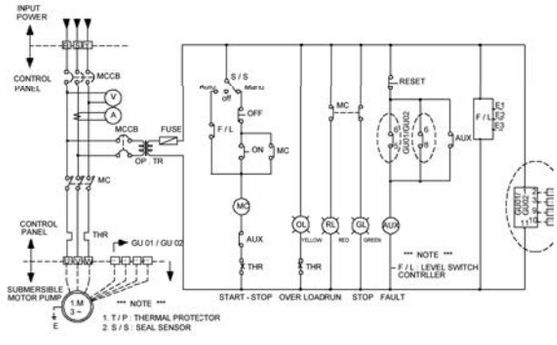
Product No.: 96922665

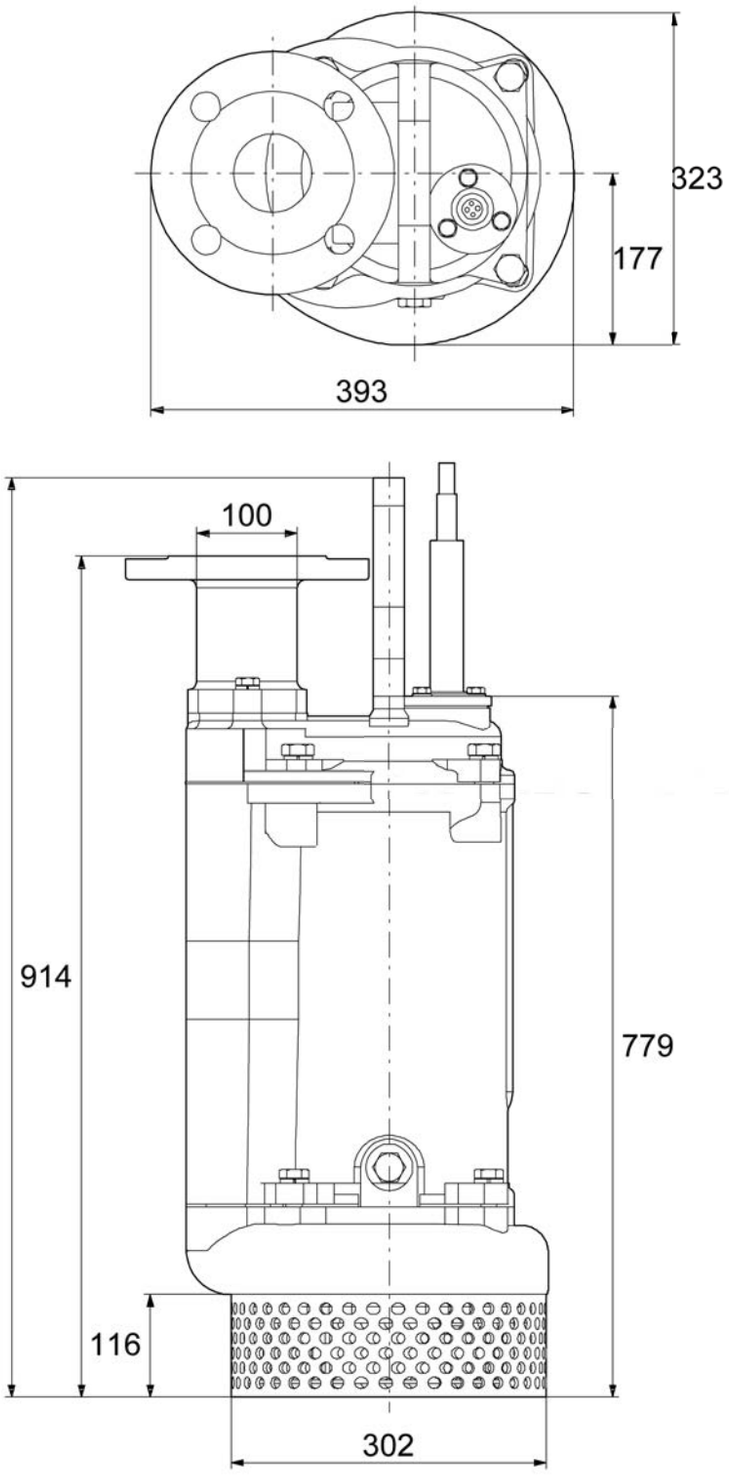
Description	Value
Product name:	DWK.O.13.100.150.5.0D
Product No:	96922665
EAN number:	5700313724529
Technical:	
Max flow:	33.6 l/s
Head min:	5.5 m
Head max:	49 m
Actual impeller diameter:	195 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	65 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN100
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	31 A
Rated current at 3/4 load:	24 A
Rated current at 1/2 load:	18.3 A
Cos phi - power factor	0,835
Cos phi - p.f. at 3/4 load	0,804
Cos phi - p.f. at 1/2 load	0,729
Rated speed:	2850 rpm
Motor efficiency at full load:	88 %
Motor efficiency at 3/4 load:	87,4 %
Motor efficiency at 1/2 load:	85,5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X6.0MM2+4X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	195 kg



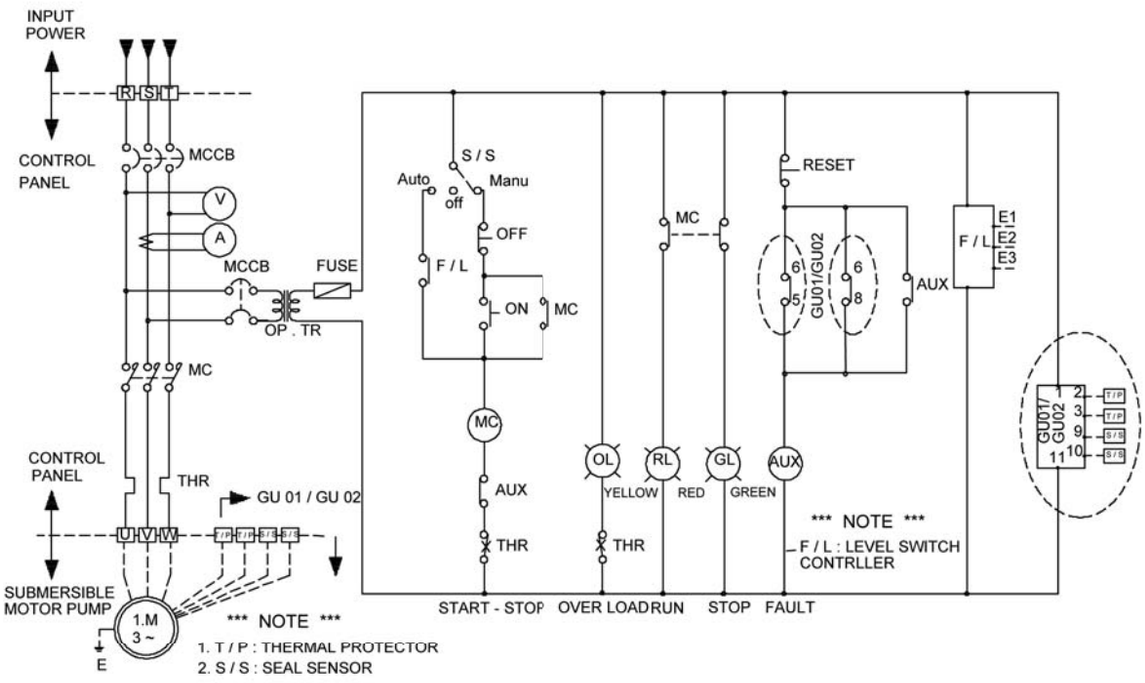








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.O.13.150.150.5.0D

Product No.: 96922666

Grundfos DWK pump is a submersible pump for dewatering and drainage a
tions.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and perr
installation.

The pump is cast iron, with vertical discharge port and integrated submersi
3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impelle
The pump is equipped with a temperature bi-metal sensor for motor protec
case of overheating. The pump is fitted with suction strainer, lifting handle
cable.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	27.7 m
Actual impeller diameter:	186 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	61 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

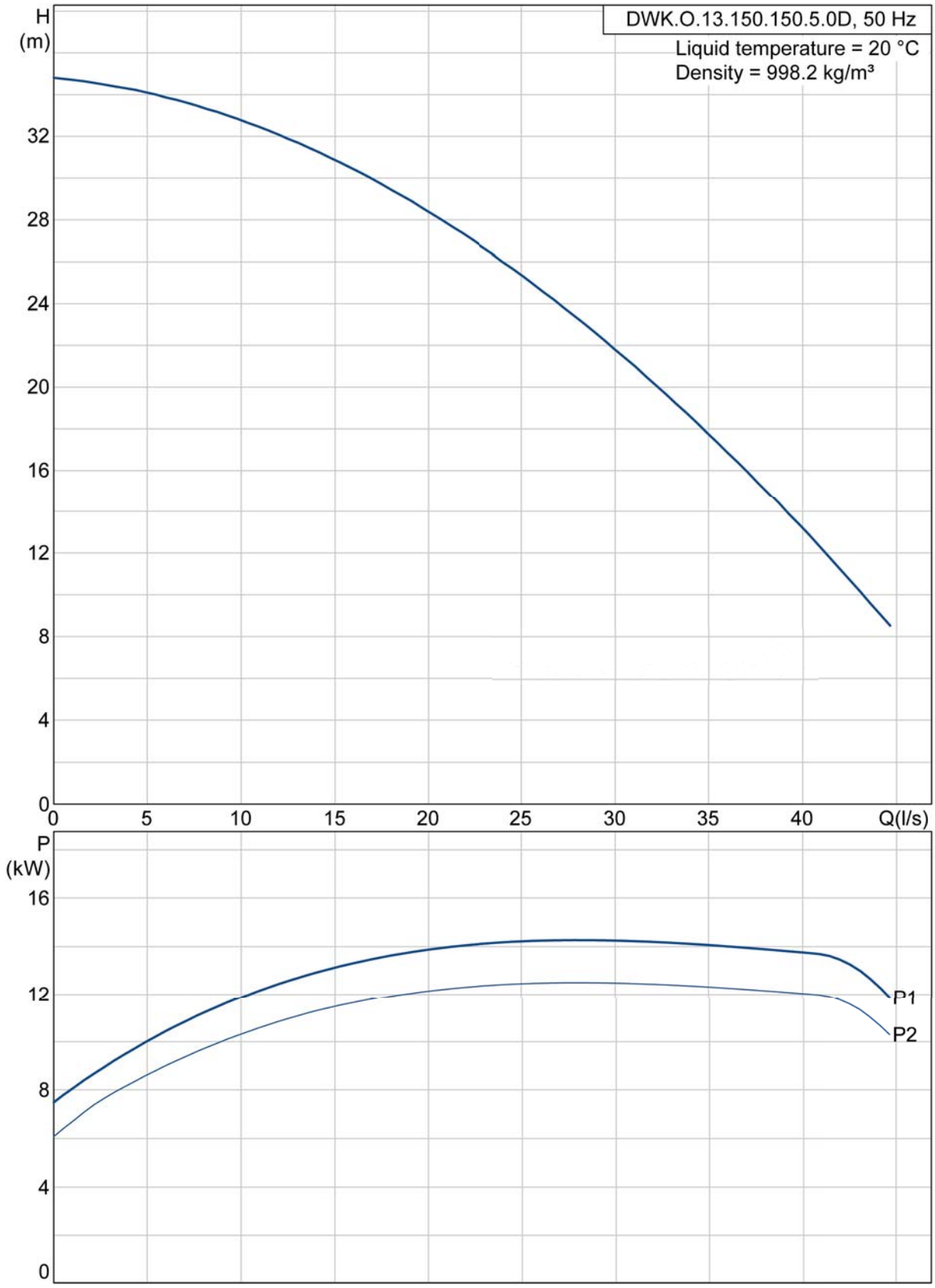
Maximum ambient temperature:	40 °C
Pump outlet:	DN110
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	31 A
Rated current at 3/4 load:	24 A
Rated current at 1/2 load:	18.3 A
Cos phi - power factor:	0,835
Cos phi - p.f. at 3/4 load:	0,804
Cos phi - p.f. at 1/2 load:	0,729
Rated speed:	2850 rpm
Motor efficiency at full load:	88 %
Motor efficiency at 3/4 load:	87.4 %
Motor efficiency at 1/2 load:	85,5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

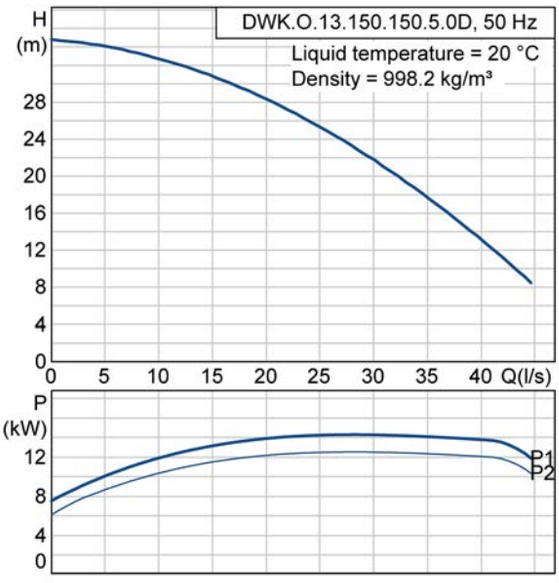
Net weight:	195 kg

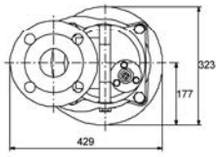

DWK.O.13.150.150.5.0D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
32
28
24
20
16
12
8
4
0
0
5
10
15
20
25
30
35
40
Q(l/s)
P
(kW)
16
12
8
4
0
P1
P2

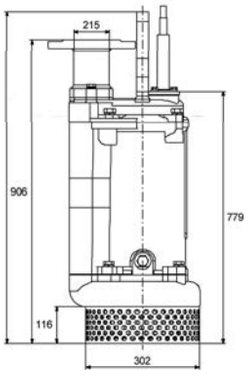
DWK.O.13.150.150.5.0D

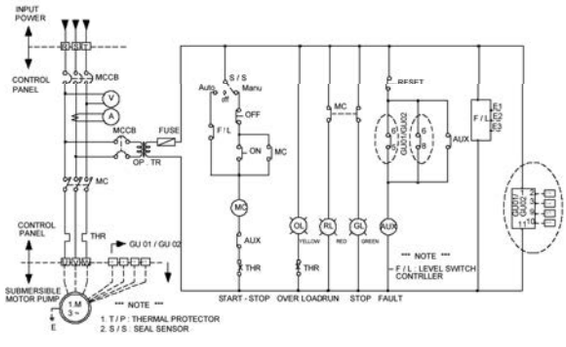
Product No.: 96922666

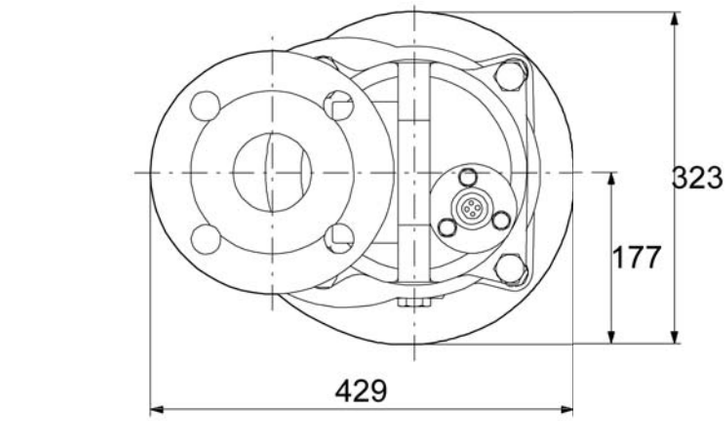
Description	Value
Product name:	DWK.O.13.150.150.5.0D
Product No:	96922666
EAN number:	5700313724536
Technical:	
Max flow:	58.8 l/s
Resulting head of the pump:	27.7 m
Head min:	2.5 m
Head max:	40 m
Actual impeller diameter:	186 mm
Type of impeller:	OPEN
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	61 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	DOL
Max starts per. hour:	30
Rated current:	31 A
Rated current at 3/4 load:	24 A
Rated current at 1/2 load:	18.3 A
Cos phi - power factor	0,835
Cos phi - p.f. at 3/4 load	0,804
Cos phi - p.f. at 1/2 load	0,729
Rated speed:	2850 rpm
Motor efficiency at full load:	88 %
Motor efficiency at 3/4 load:	87,4 %
Motor efficiency at 1/2 load:	85,5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X6.0MM2+4X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	195 kg

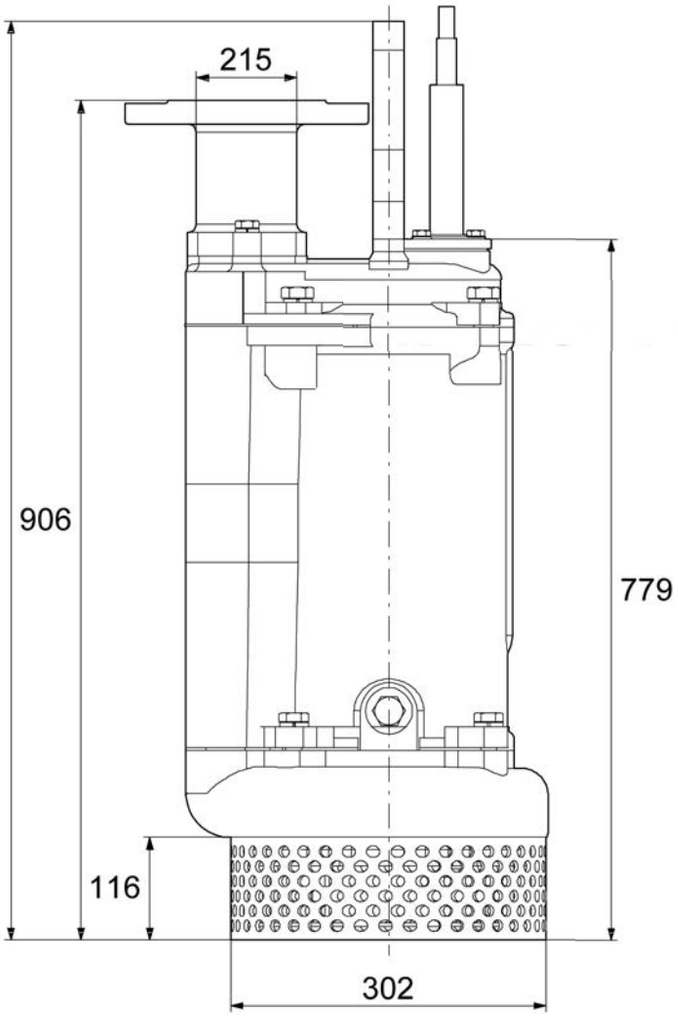




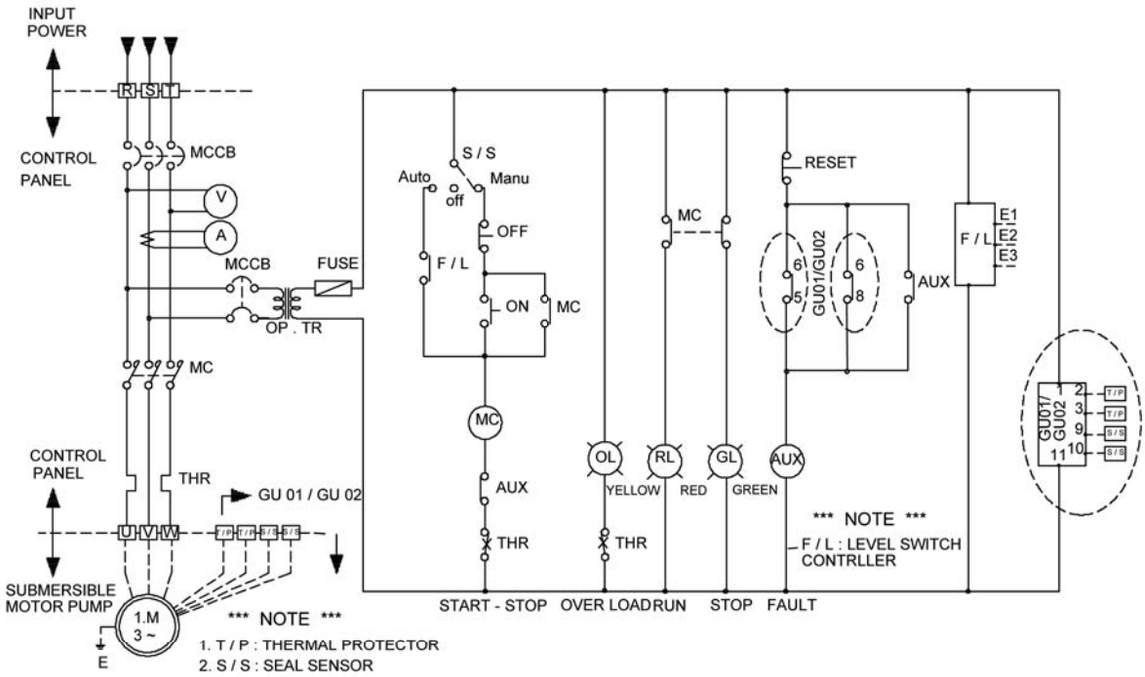








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.150.220.5.1D

Product No.: 96922668

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

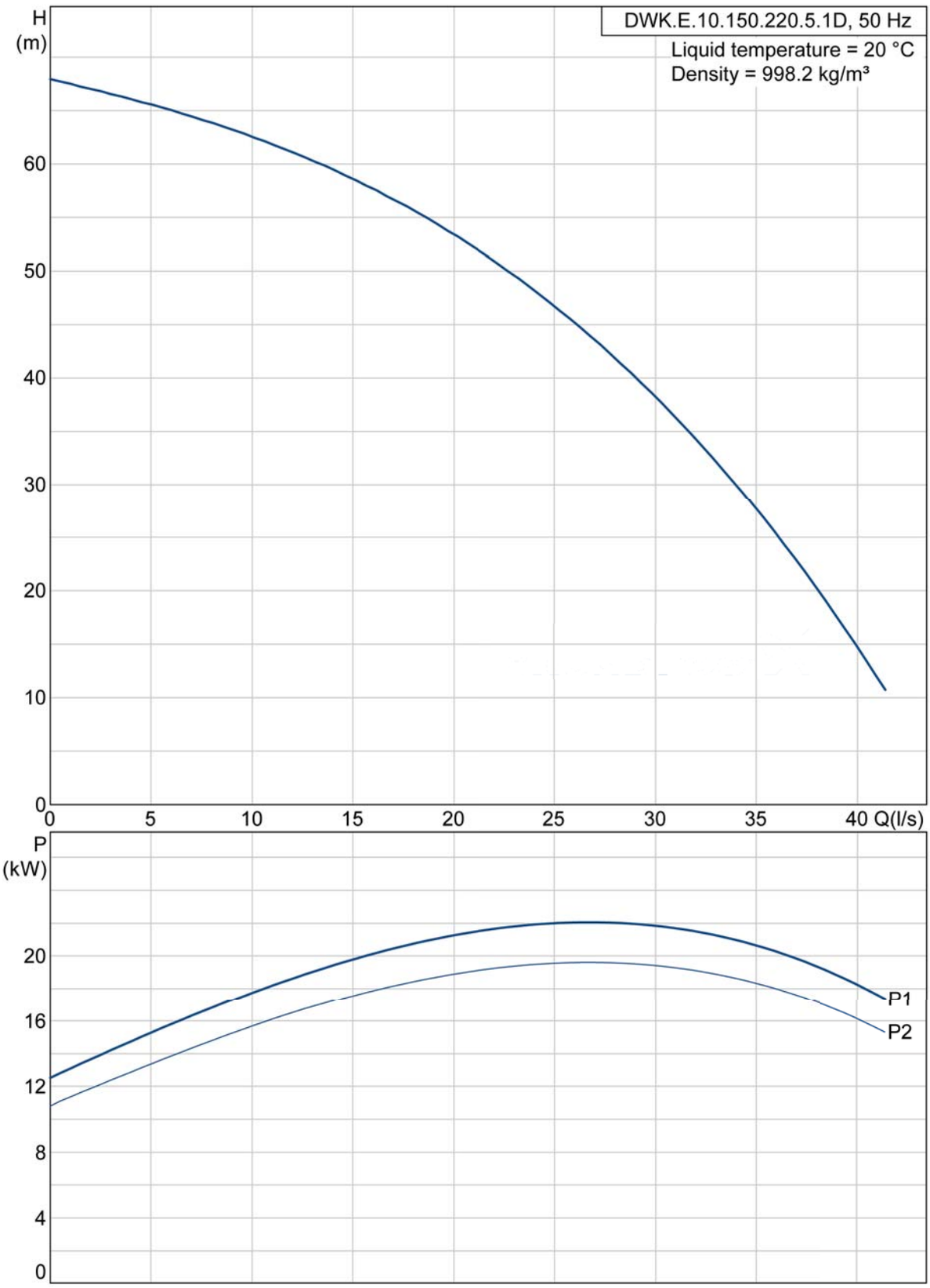
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Technical:	
Resulting head of the pump:	53.8 m
Actual impeller diameter:	250 mm
Type of impeller:	OPEN
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	58 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m

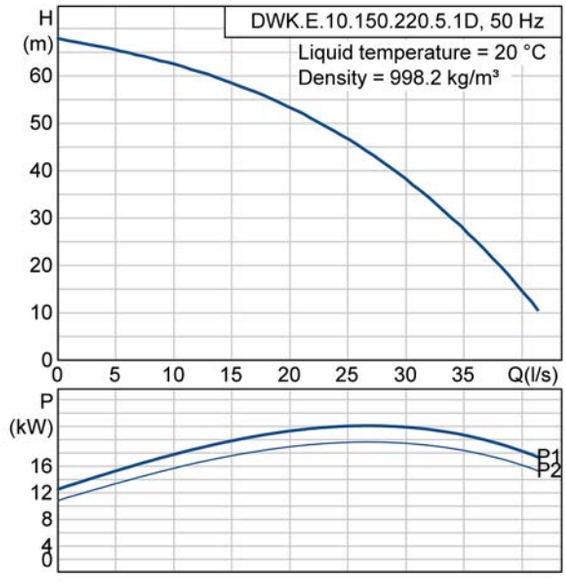
Electrical data:	
Number of poles:	2
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	43 A
Rated current at 3/4 load:	34 A
Rated current at 1/2 load:	25 A
Cos phi - power factor:	0,855
Cos phi - p.f. at 3/4 load:	0,824
Cos phi - p.f. at 1/2 load:	0,747
Rated speed:	2850 rpm
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	86.7 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	427 kg

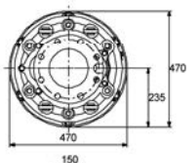

DWK.E.10.150.220.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40 Q(l/s)
P
(kW)
20
16
12
8
4
0
P1
P2

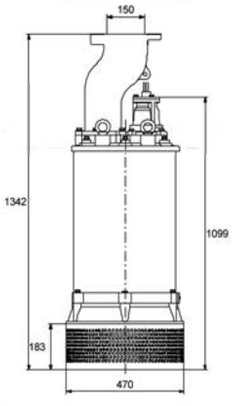
DWK.E.10.150.220.5.1D

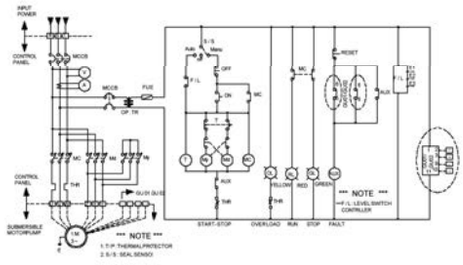
Product No.: 96922668

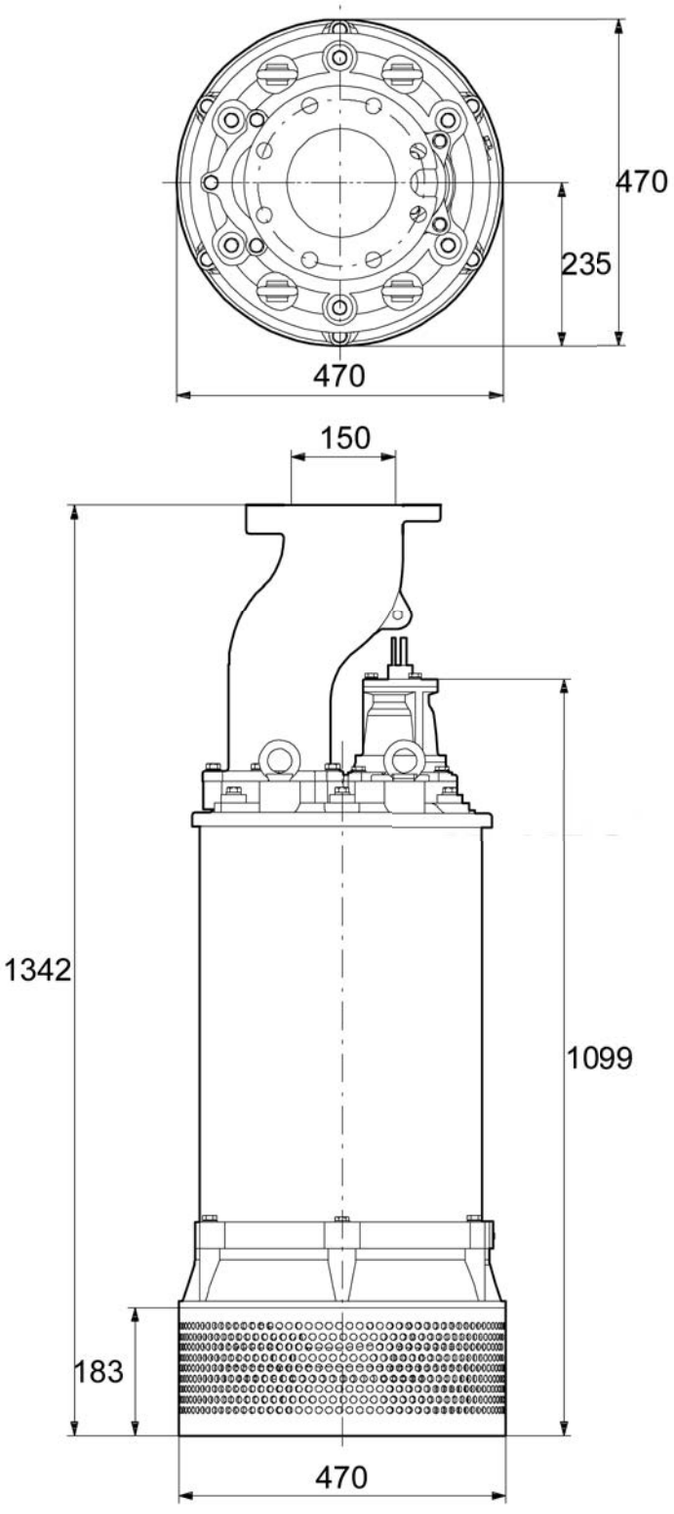
Description	Value
Product name:	DWK.E.10.150.220.5.1D
Product No:	96922668
EAN number:	5700313724550
Technical:	
Max flow:	41.4 l/s
Resulting head of the pump:	53.8 m
Head min:	10.6 m
Head max:	67.9 m
Actual impeller diameter:	250 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	58 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	43 A
Rated current at 3/4 load:	34 A
Rated current at 1/2 load:	25 A
Cos phi - power factor	0,855
Cos phi - p.f. at 3/4 load	0,824
Cos phi - p.f. at 1/2 load	0,747
Rated speed:	2850 rpm
Motor efficiency at full load:	89,2 %
Motor efficiency at 3/4 load:	88,6 %
Motor efficiency at 1/2 load:	86,7 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X6.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	427 kg



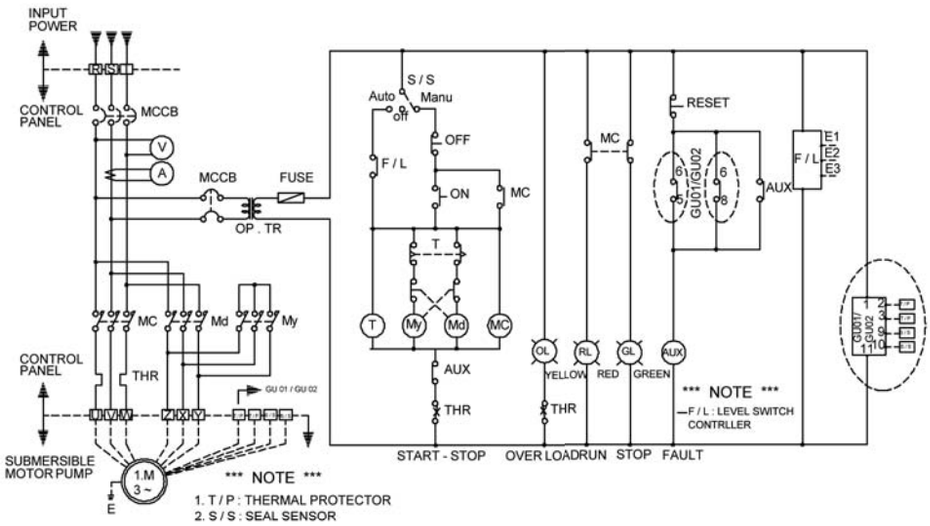








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.150.300.5.1D

Product No.: 96922669

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

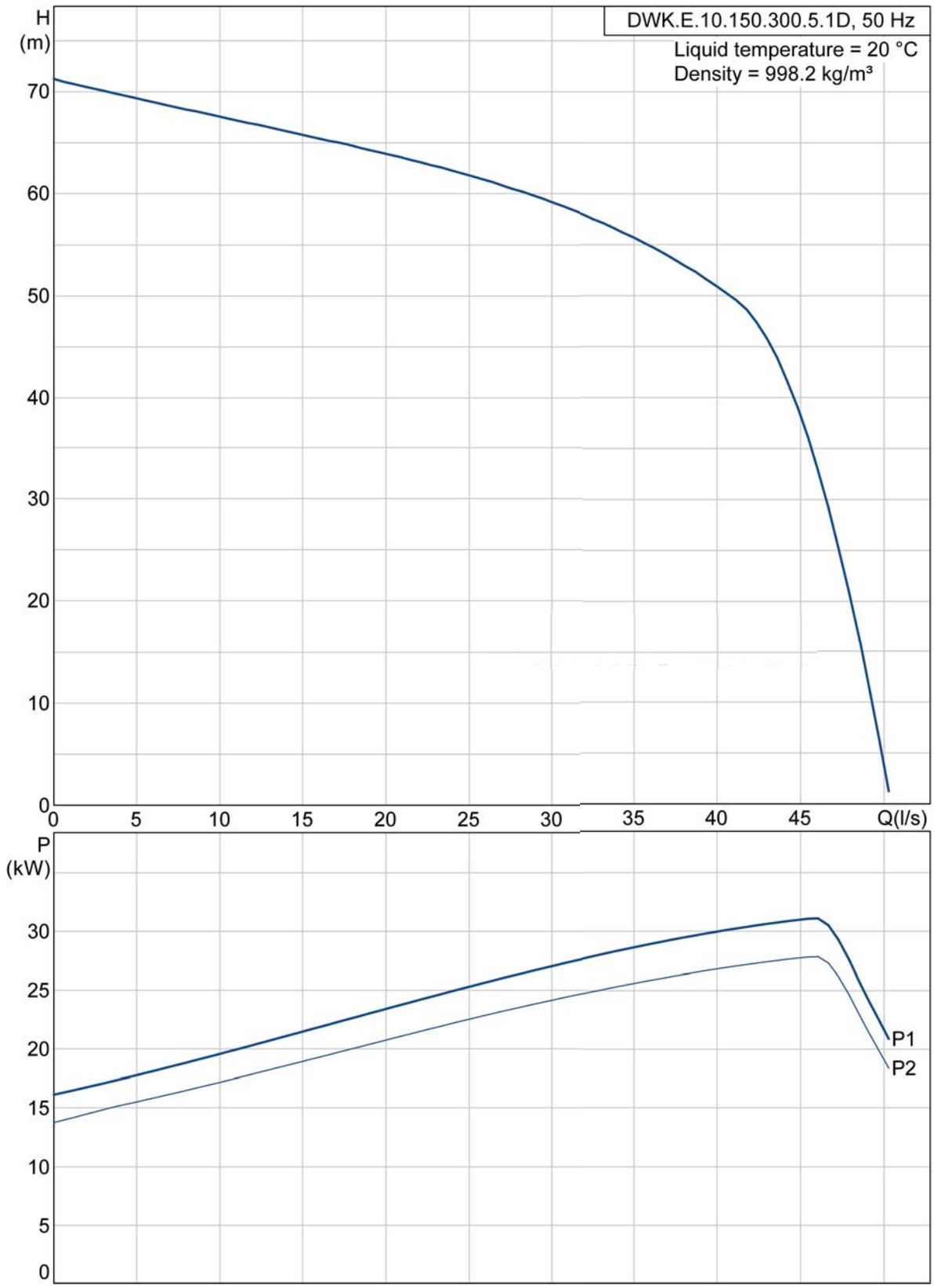
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3
Technical:	
Resulting head of the pump:	62.3 m
Actual impeller diameter:	243 mm
Type of impeller:	OPEN
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	52 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m

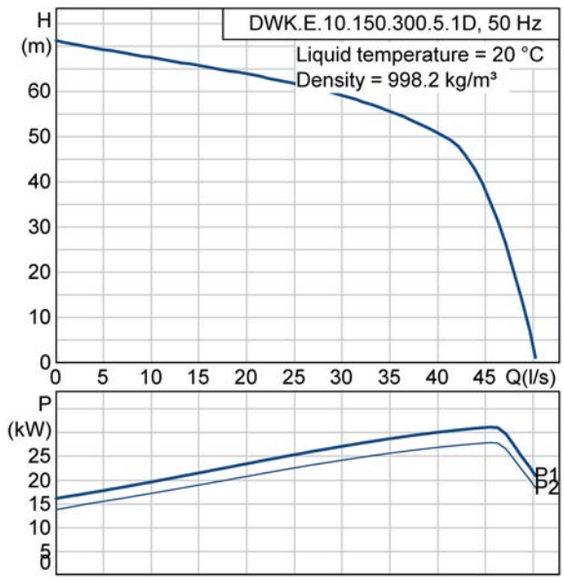
Electrical data:	
Number of poles:	2
Rated power - P2:	30 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	59 A
Rated current at 3/4 load:	46 A
Rated current at 1/2 load:	34 A
Cos phi - power factor:	0,86
Cos phi - p.f. at 3/4 load:	0,828
Cos phi - p.f. at 1/2 load:	0,751
Rated speed:	2850 rpm
Motor efficiency at full load:	89.7 %
Motor efficiency at 3/4 load:	89.1 %
Motor efficiency at 1/2 load:	87.2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	452 kg

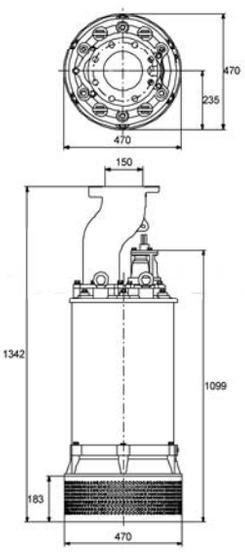

DWK.E.10.150.300.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
45
Q(l/s)
P
(kW)
30
25
20
15
10
5
0
P1
P2

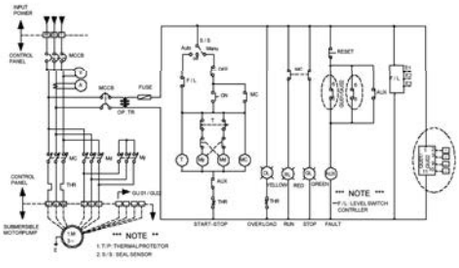
DWK.E.10.150.300.5.1D

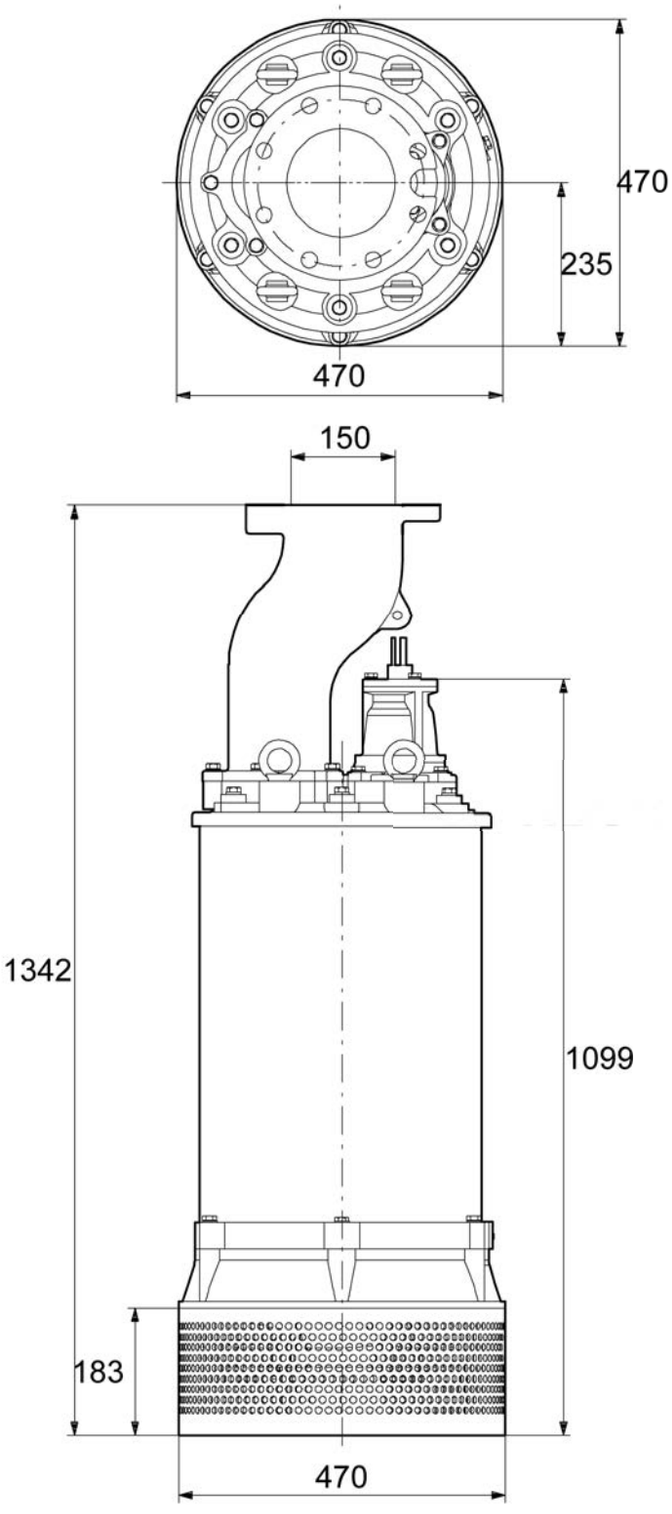
Product No.: 96922669

Description	Value
Product name:	DWK.E.10.150.300.5.1D
Product No:	96922669
EAN number:	5700313724567
Technical:	
Max flow:	44.6 l/s
Resulting head of the pump:	62.3 m
Head min:	5.7 m
Head max:	70.9 m
Actual impeller diameter:	243 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	52 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	30 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	59 A
Rated current at 3/4 load:	46 A
Rated current at 1/2 load:	34 A
Cos phi - power factor	0,86
Cos phi - p.f. at 3/4 load	0,828
Cos phi - p.f. at 1/2 load	0,751
Rated speed:	2850 rpm
Motor efficiency at full load:	89,7 %
Motor efficiency at 3/4 load:	89,1 %
Motor efficiency at 1/2 load:	87,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X10.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	452 kg

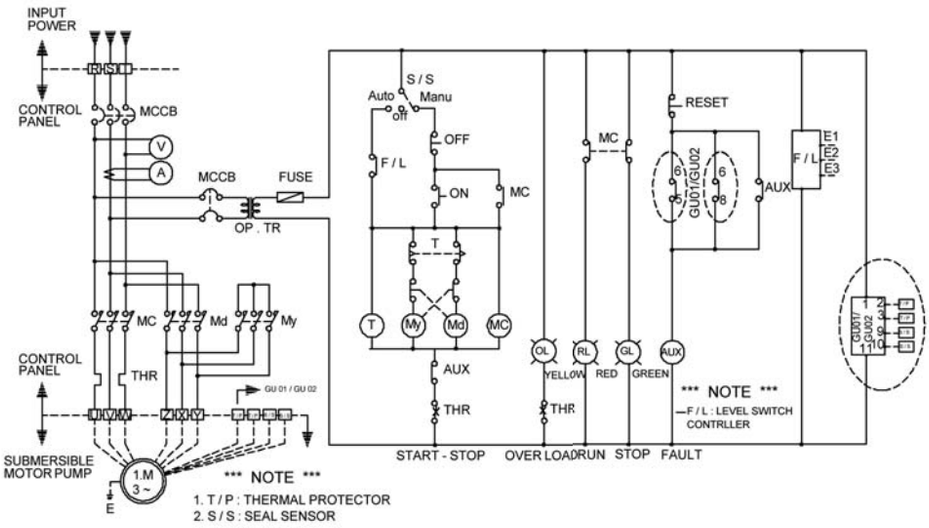








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.150.370.5.1D

Product No.: 96922671

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

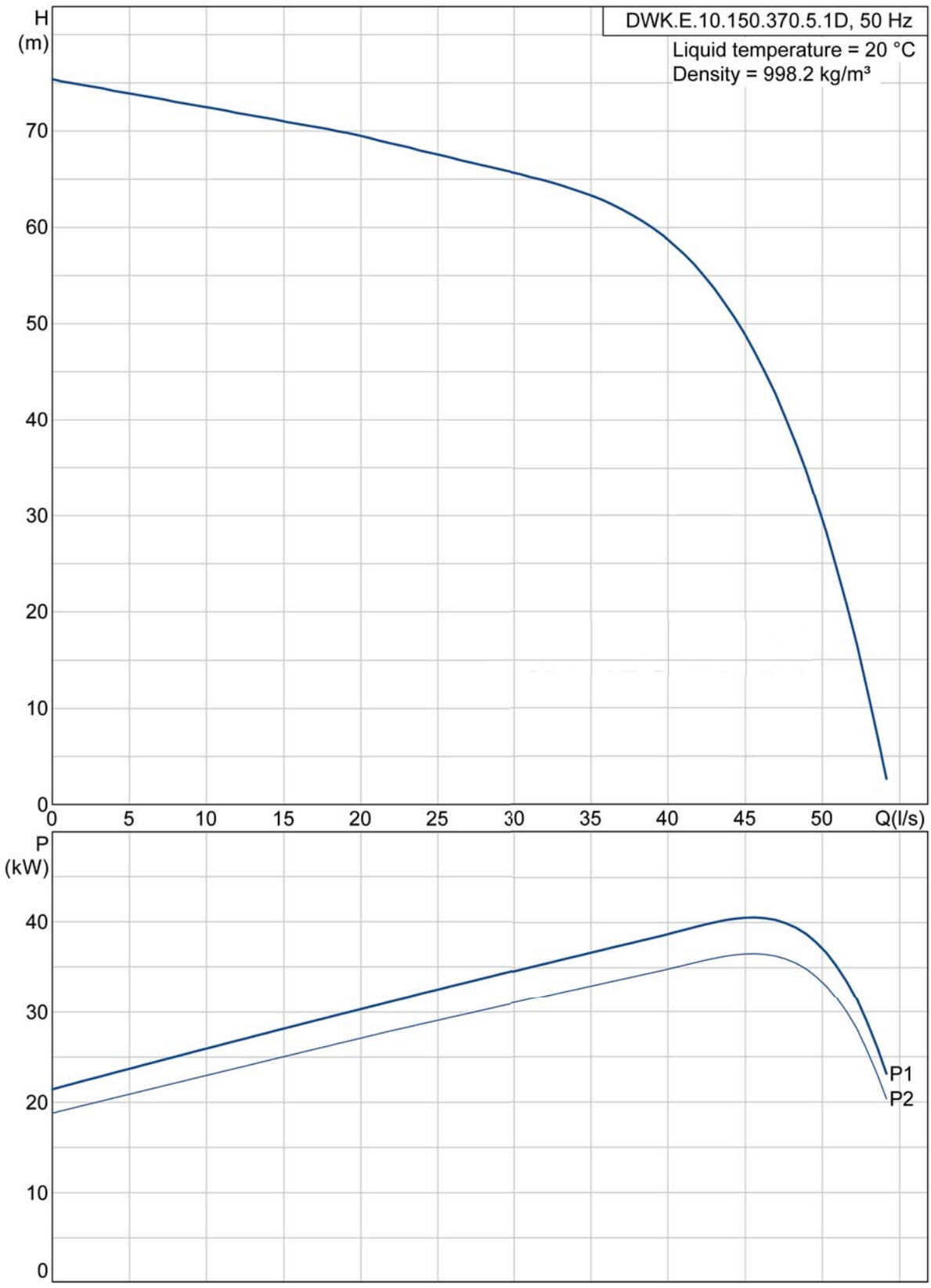
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3
Technical:	
Resulting head of the pump:	67.3 m
Actual impeller diameter:	252 mm
Type of impeller:	OPEN
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	54 %
Materials:	
Pump housing:	Cast iron DIN W.-Nr. GG20
Impeller:	Ductile cast iron DIN W.-Nr. GCD200
Motor:	Cart iron DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m

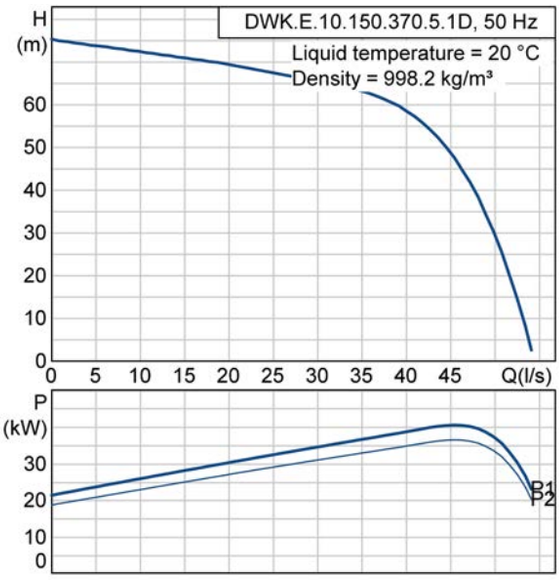
Electrical data:	
Number of poles:	2
Rated power - P2:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	72 A
Rated current at 3/4 load:	56 A
Rated current at 1/2 load:	42 A
Cos phi - power factor:	0,86
Cos phi - p.f. at 3/4 load:	0,828
Cos phi - p.f. at 1/2 load:	0,751
Rated speed:	2850 rpm
Motor efficiency at full load:	90.1 %
Motor efficiency at 3/4 load:	89.5 %
Motor efficiency at 1/2 load:	87.6 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	839 kg

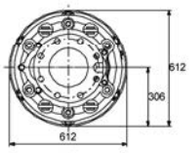

DWK.E.10.150.370.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
45
50
Q(l/s)
P
(kW)
40
30
20
10
0
P1
P2

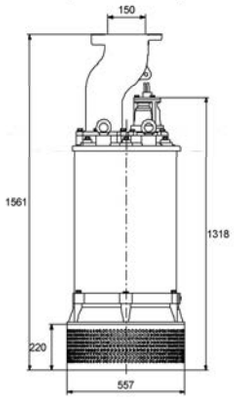
DWK.E.10.150.370.5.1D

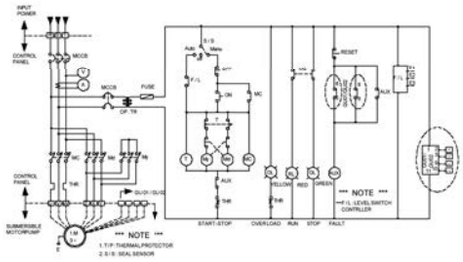
Product No.: 96922671

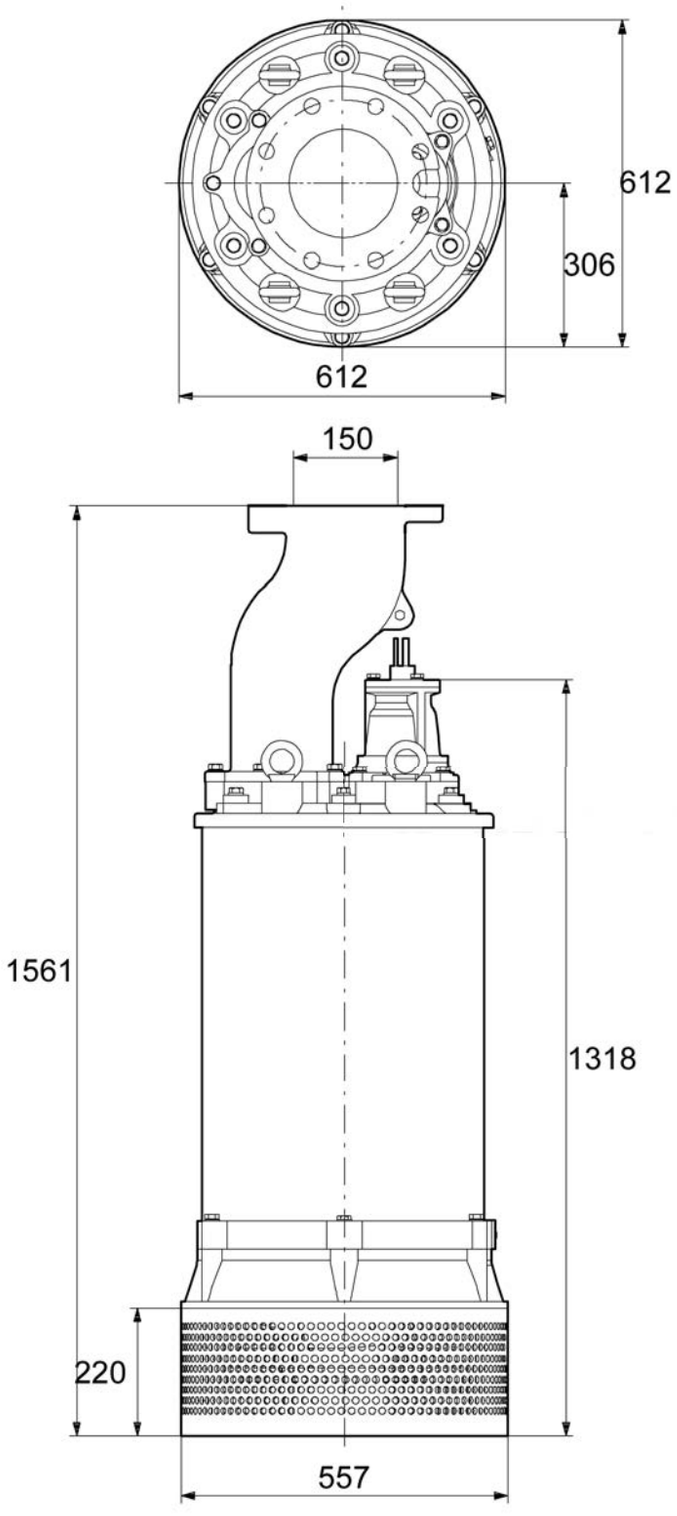
Description	Value
Product name:	DWK.E.10.150.370.5.1D
Product No:	96922671
EAN number:	5700313724581
Technical:	
Max flow:	43.3 l/s
Resulting head of the pump:	67.3 m
Head min:	2.78 m
Head max:	72.5 m
Actual impeller diameter:	252 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	54 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	72 A
Rated current at 3/4 load:	56 A
Rated current at 1/2 load:	42 A
Cos phi - power factor	0,86
Cos phi - p.f. at 3/4 load	0,828
Cos phi - p.f. at 1/2 load	0,751
Rated speed:	2850 rpm
Motor efficiency at full load:	90,1 %
Motor efficiency at 3/4 load:	89,5 %
Motor efficiency at 1/2 load:	87,6 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X16.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	839 kg



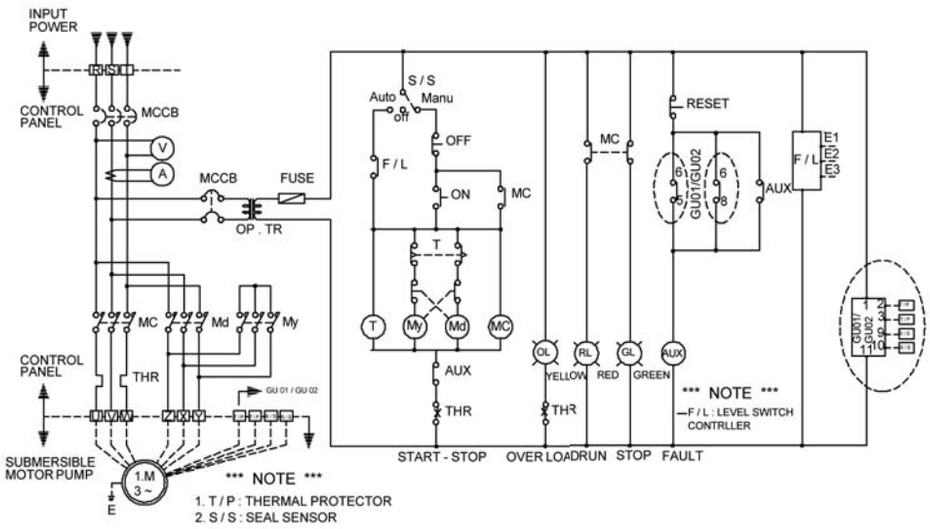








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.150.450.5.1D

Product No.: 96922673

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

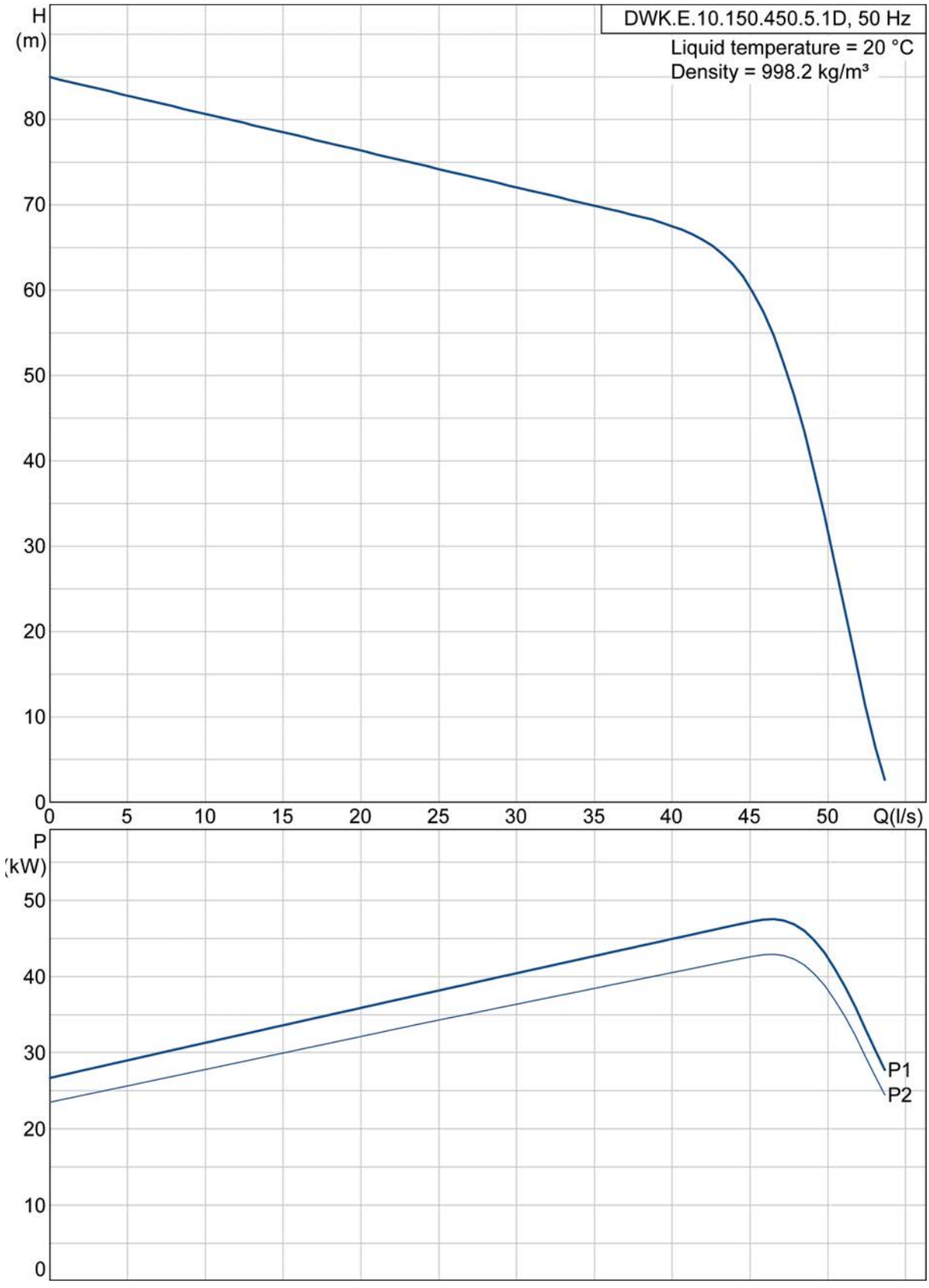
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3
Technical:	
Resulting head of the pump:	84.4 m
Actual impeller diameter:	265 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	64 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m

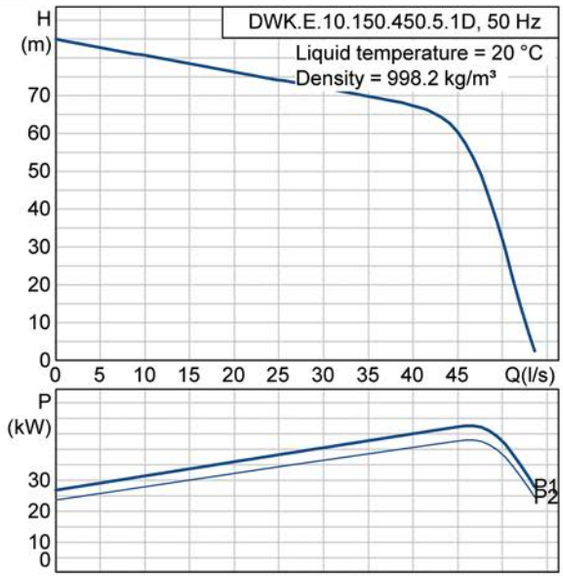
Electrical data:	
Number of poles:	2
Rated power - P2:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	87 A
Rated current at 3/4 load:	68 A
Rated current at 1/2 load:	51 A
Cos phi - power factor:	0,865
Cos phi - p.f. at 3/4 load:	0,833
Cos phi - p.f. at 1/2 load:	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90.4 %
Motor efficiency at 3/4 load:	89.8 %
Motor efficiency at 1/2 load:	87.9 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	858 kg

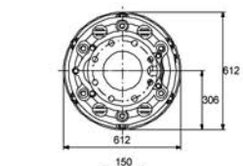

H
(m)
DWK.E.10.150.450.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
80
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
45
50
Q(l/s)
P
(kW)
50
40
30
20
10
0
P1
P2

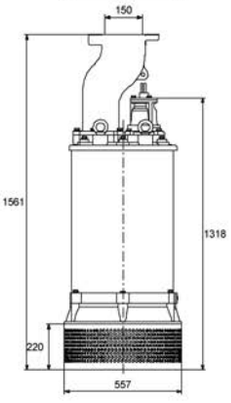
DWK.E.10.150.450.5.1D

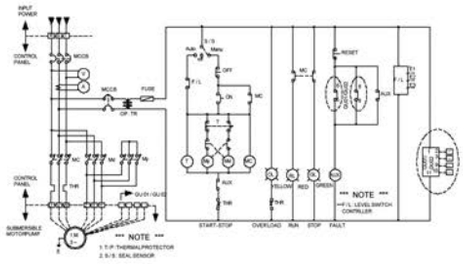
Product No.: 96922673

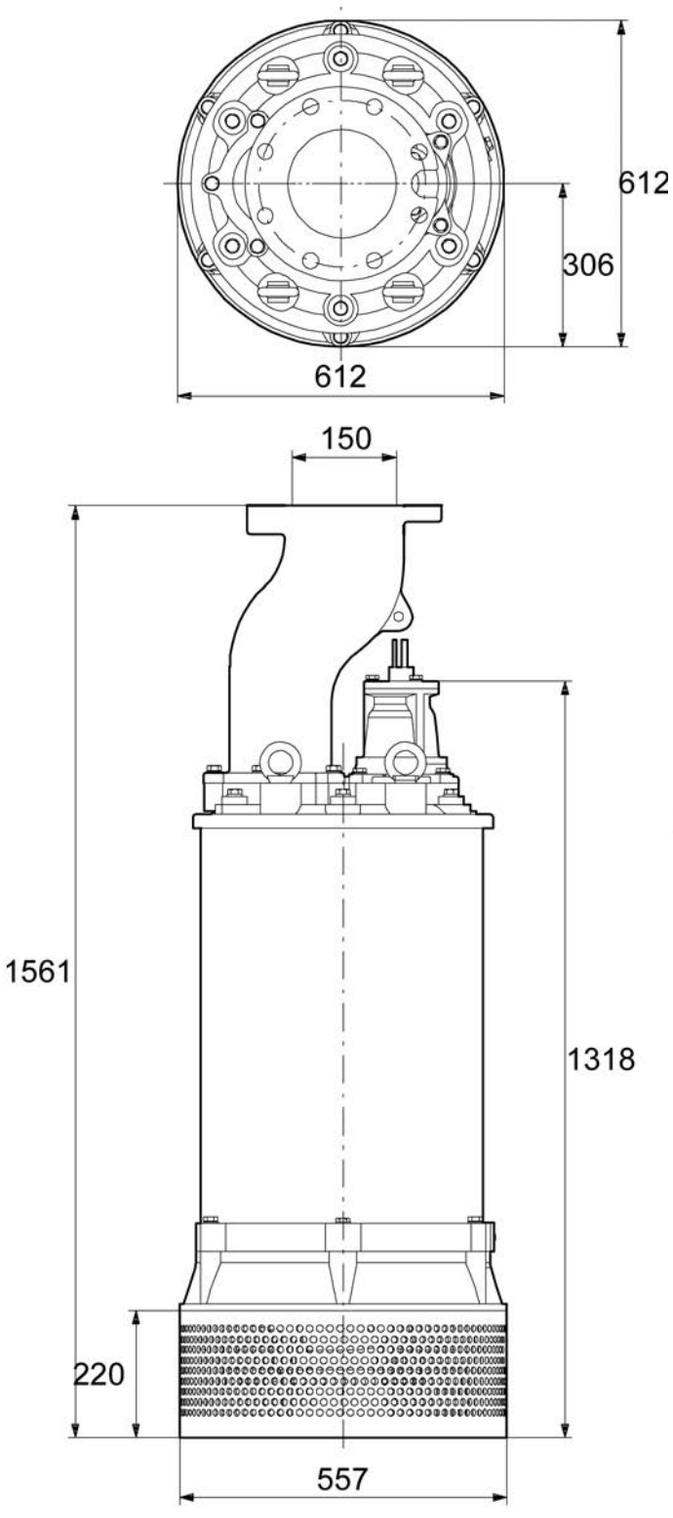
Description	Value
Product name:	DWK.E.10.150.450.5.1D
Product No:	96922673
EAN number:	5700313724604
Technical:	
Max flow:	53.6 l/s
Head min:	2.81 m
Head max:	84.4 m
Actual impeller diameter:	265 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	64 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	87 A
Rated current at 3/4 load:	68 A
Rated current at 1/2 load:	51 A
Cos phi - power factor	0,865
Cos phi - p.f. at 3/4 load	0,833
Cos phi - p.f. at 1/2 load	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90,4 %
Motor efficiency at 3/4 load:	89,8 %
Motor efficiency at 1/2 load:	87,9 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X16.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	858 kg



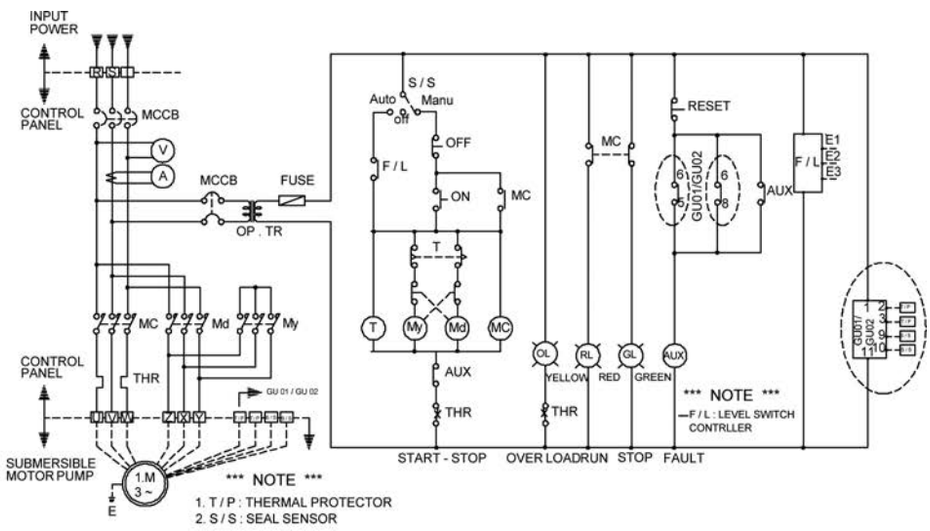








ote! All units are in [mm] unless others are stated.
sclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.200.450.5.1D

Product No.: 96922674

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	50.4 m
Actual impeller diameter:	220 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	57 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

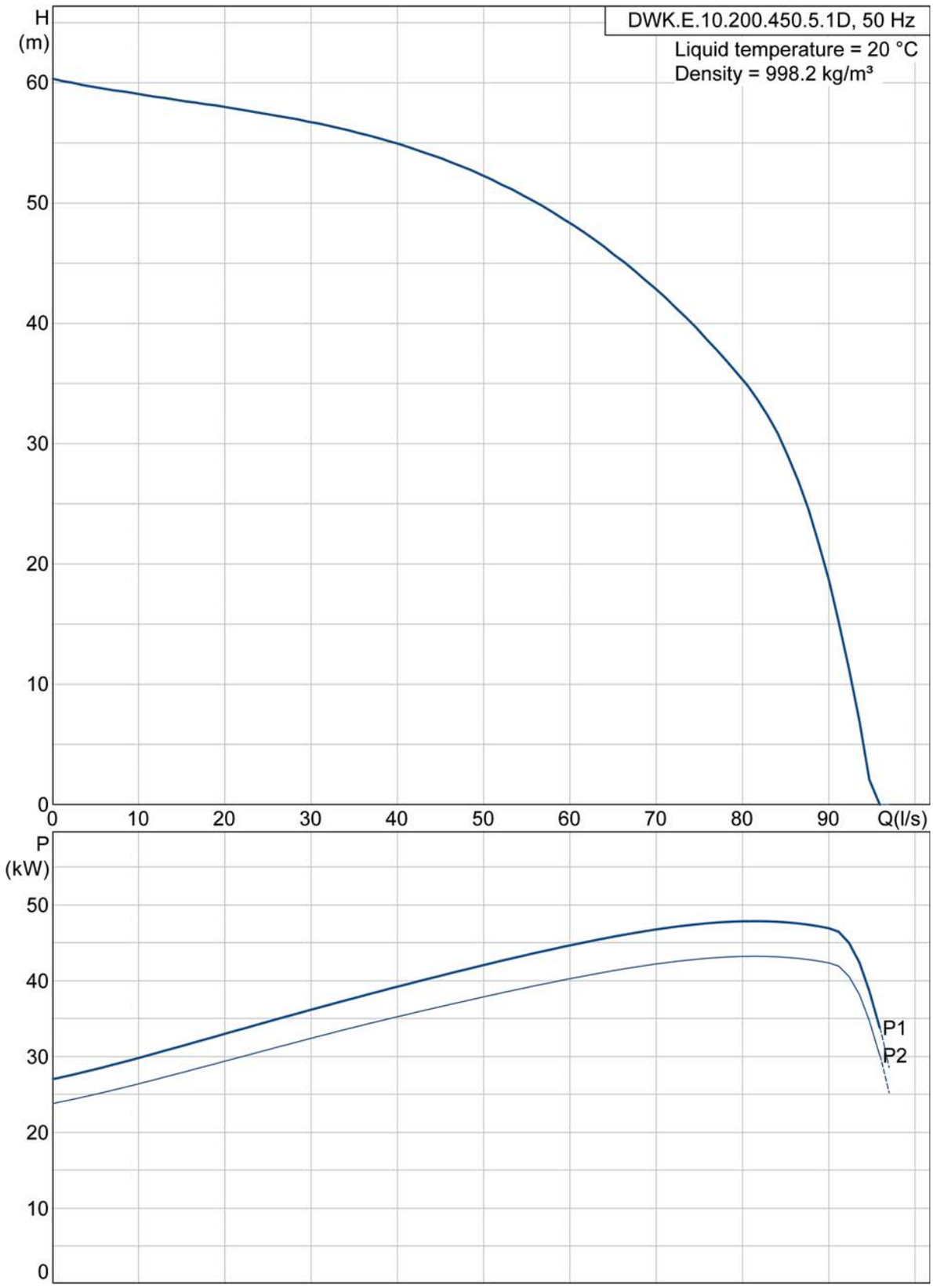
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m

Electrical data:

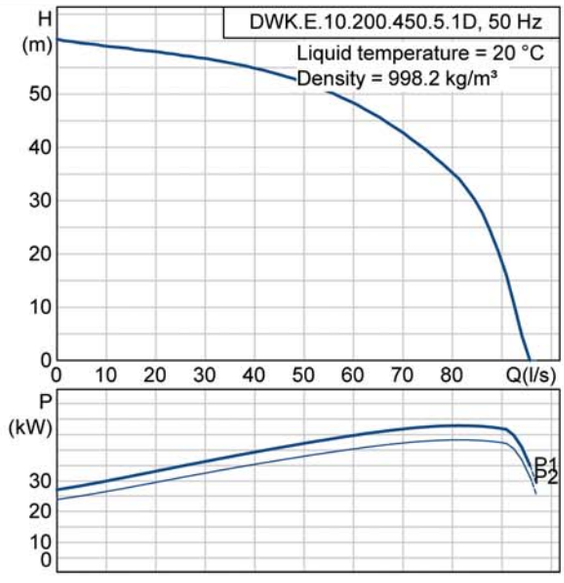
Number of poles:	2
Rated power - P2:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	87 A
Rated current at 3/4 load:	68 A
Rated current at 1/2 load:	51 A
Cos phi - power factor:	0,865
Cos phi - p.f. at 3/4 load:	0,833
Cos phi - p.f. at 1/2 load:	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90.4 %
Motor efficiency at 3/4 load:	89.8 %
Motor efficiency at 1/2 load:	87.9 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

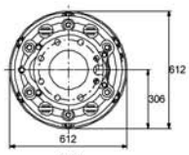
Others:

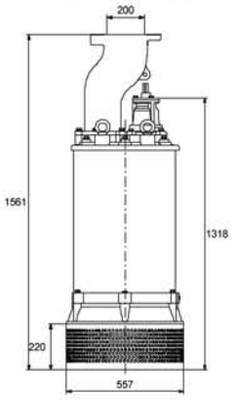
Net weight:	860 kg

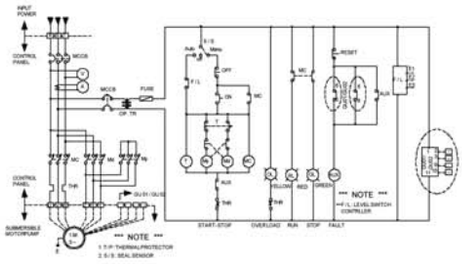

DWK.E.10.200.450.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
Q(l/s)
P
(kW)
50
40
30
20
10
0
P1
P2

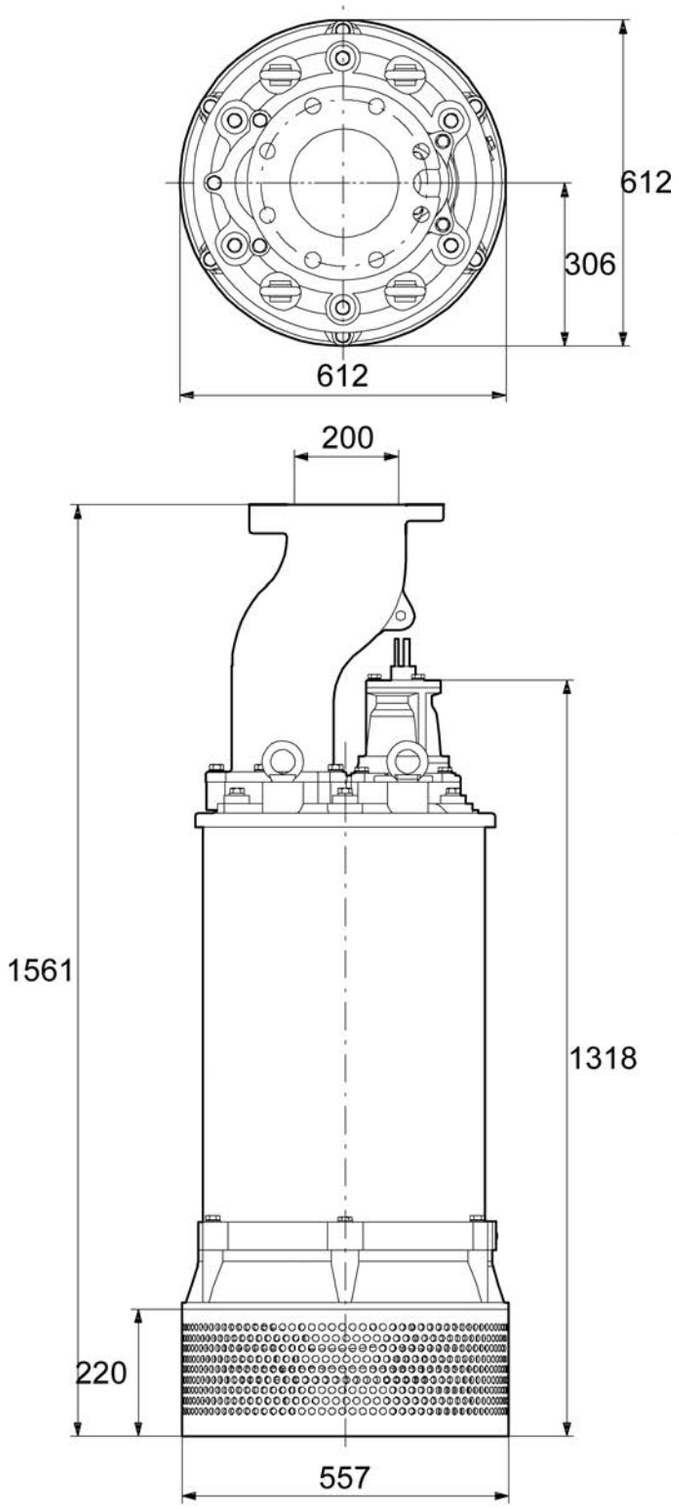
Description	Value
Product name:	DWK.E.10.200.450.5.1D
Product No:	96922674
EAN number:	5700313724611
Technical:	
Max flow:	97 l/s
Head min:	2.5 m
Head max:	50.5 m
Actual impeller diameter:	220 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	57 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	87 A
Rated current at 3/4 load:	68 A
Rated current at 1/2 load:	51 A
Cos phi - power factor	0,865
Cos phi - p.f. at 3/4 load	0,833
Cos phi - p.f. at 1/2 load	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90,4 %
Motor efficiency at 3/4 load:	89,8 %
Motor efficiency at 1/2 load:	87,9 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X16.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	860 kg



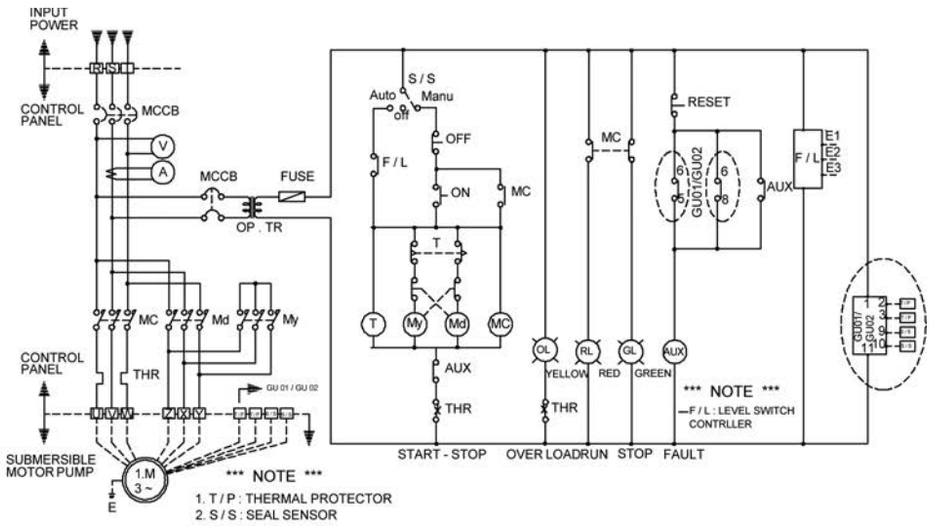








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.150.550.5.1

Product No.: 96922675

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

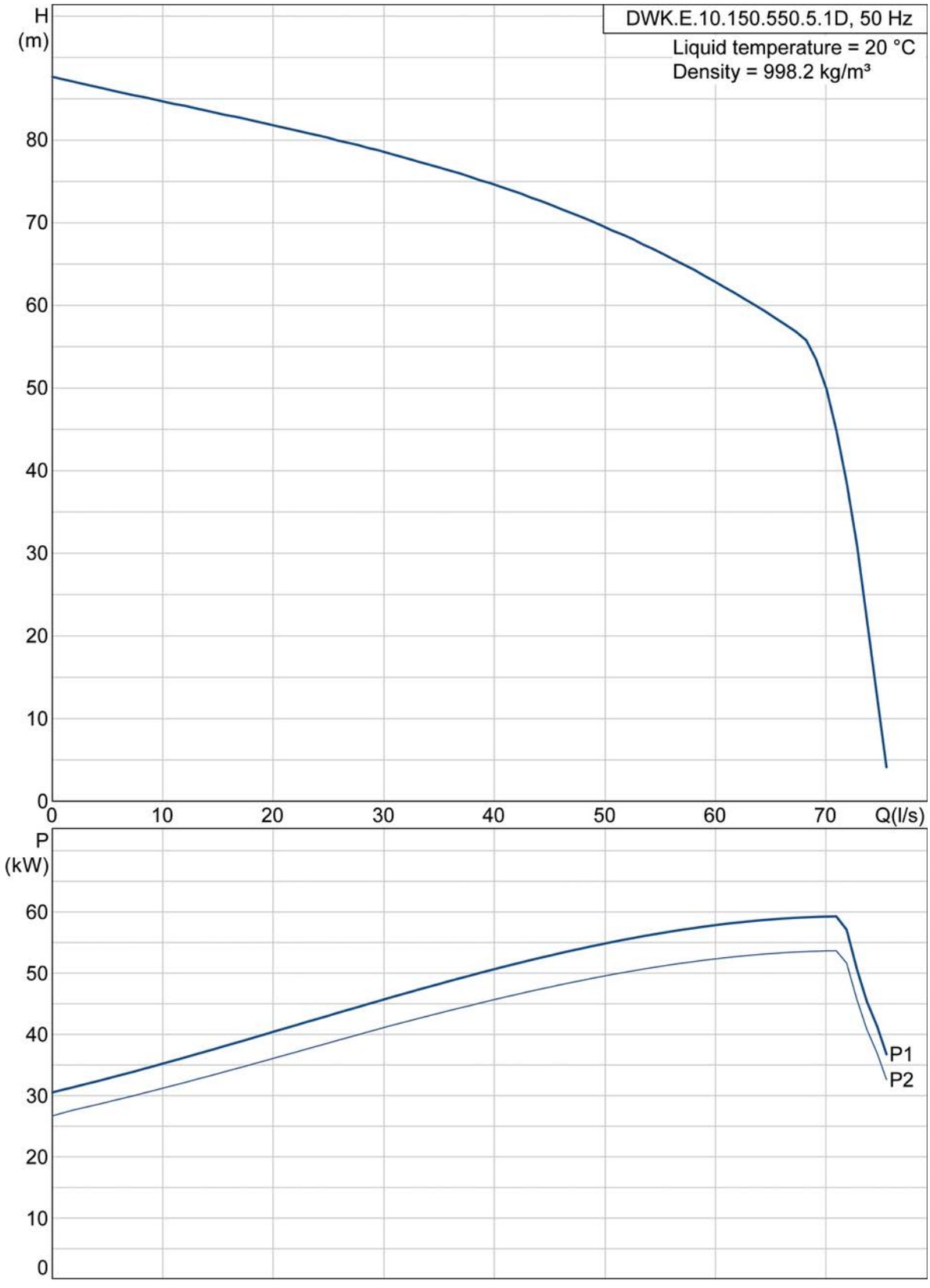
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

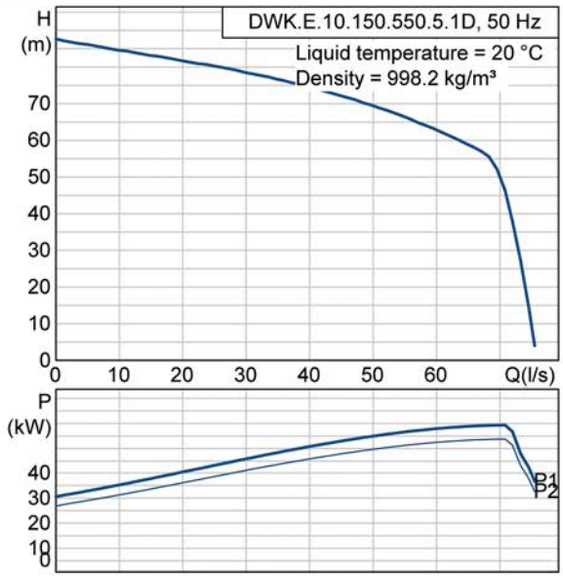
Note! Product picture may differ from actual product

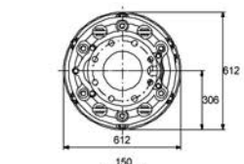
Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3
Technical:	
Resulting head of the pump:	74.6 m
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	64 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m

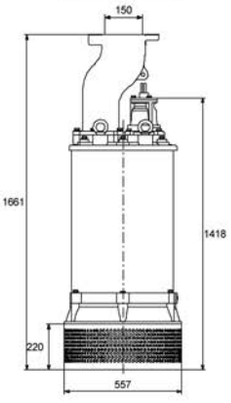
Electrical data:	
Number of poles:	2
Rated power - P2:	55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	105 A
Rated current at 3/4 load:	83 A
Rated current at 1/2 load:	62 A
Cos phi - power factor:	0,865
Cos phi - p.f. at 3/4 load:	0,833
Cos phi - p.f. at 1/2 load:	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90,6 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	88,1 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	921 kg

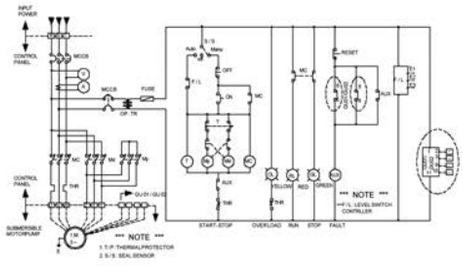

H
(m)
DWK.E.10.150.550.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
Q(l/s)
P
(kW)
60
50
40
30
20
10
0
P1
P2

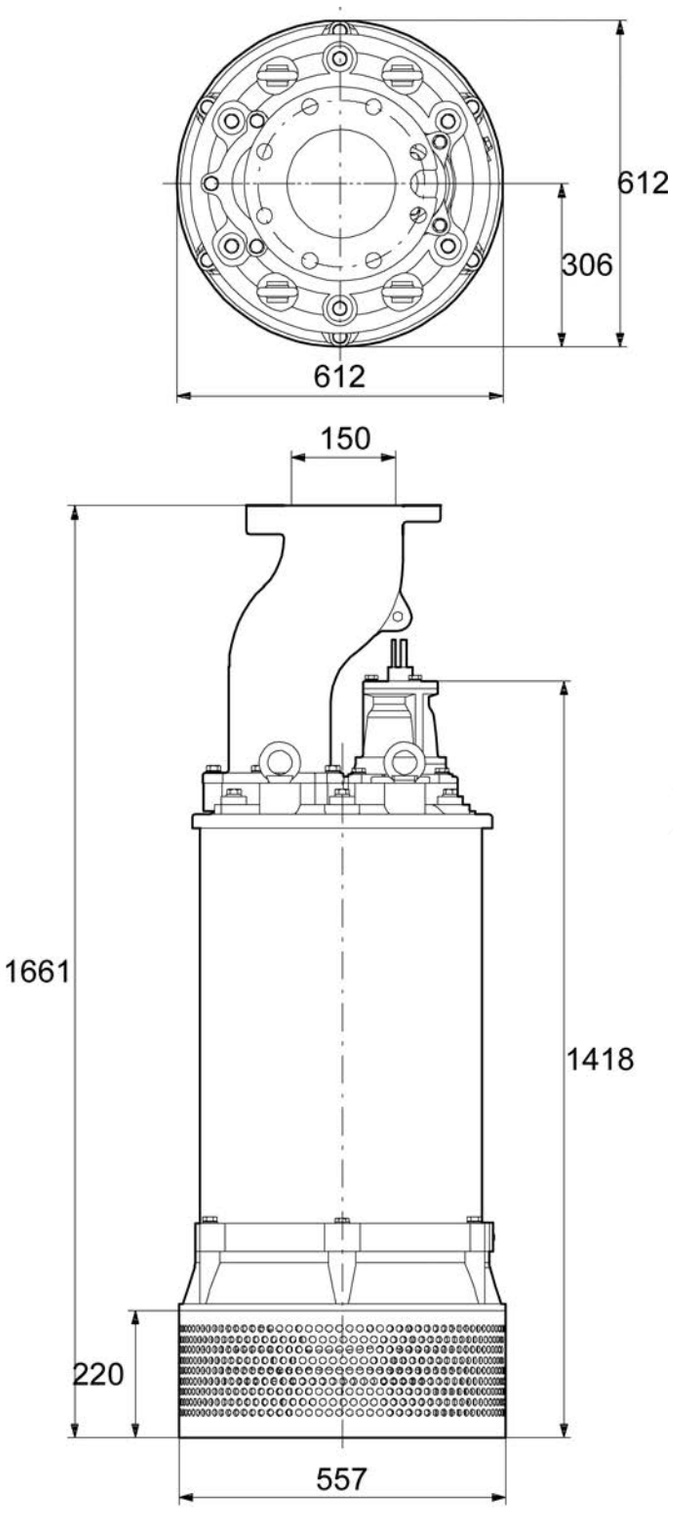
Description	Value
Product name:	DWK.E.10.150.550.5.1D
Product No:	96922675
EAN number:	5700313724628
Technical:	
Resulting head of the pump:	76.4 m
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN150
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	105 A
Rated current at 3/4 load:	83 A
Rated current at 1/2 load:	62 A
Cos phi - power factor	0,865
Cos phi - p.f. at 3/4 load	0,833
Cos phi - p.f. at 1/2 load	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90,6 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	88,1 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X25.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	921 kg



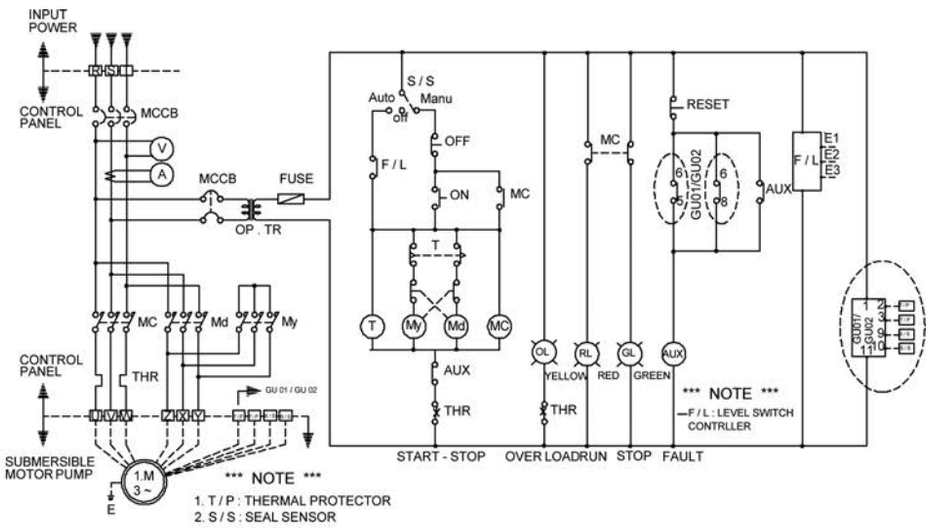








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.200.550.5.1D

Product No.: 96922676

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	65.2 m
Actual impeller diameter:	232 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	59 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

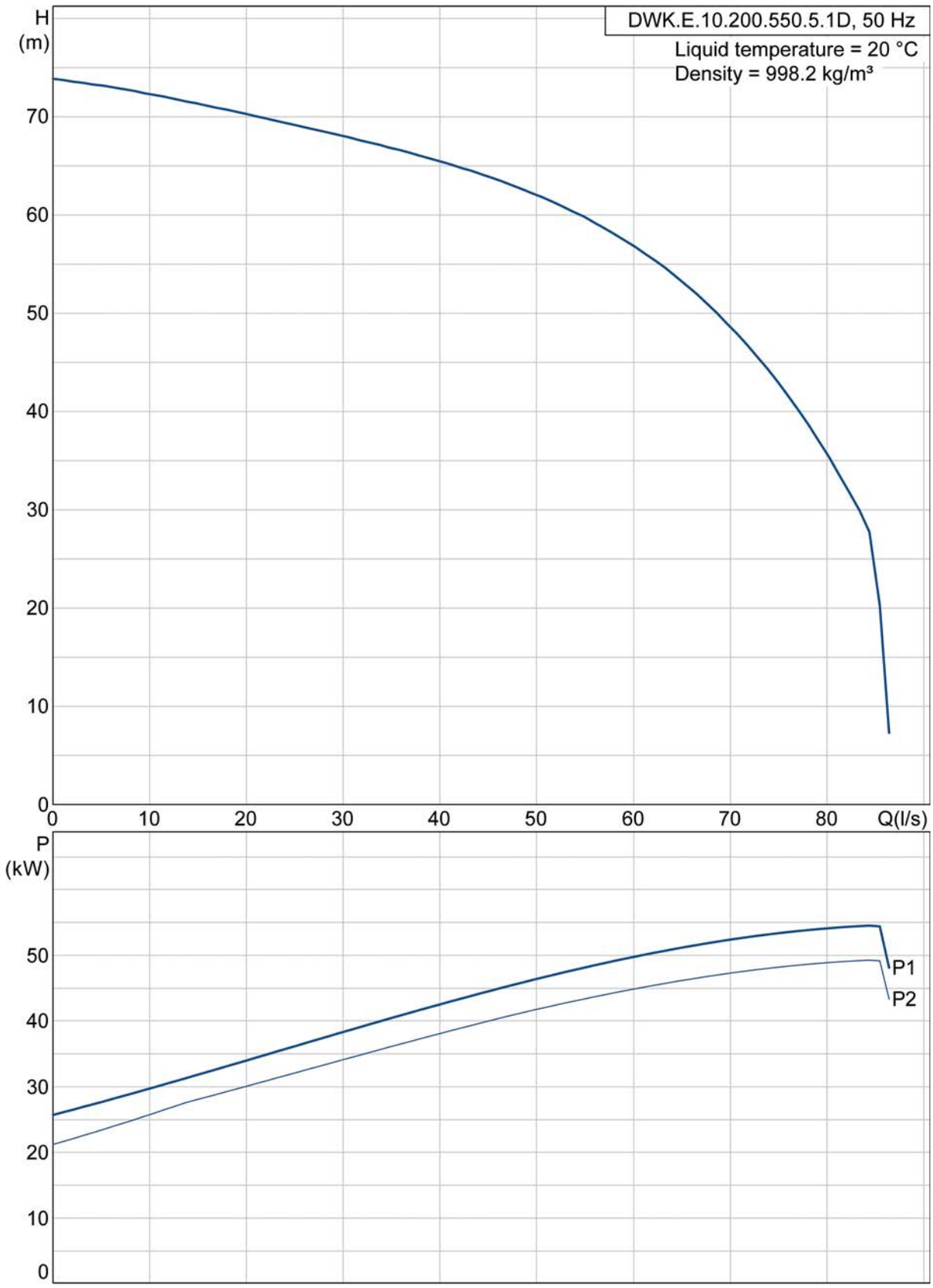
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m

Electrical data:

Number of poles:	2
Rated power - P2:	55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	105 A
Rated current at 3/4 load:	83 A
Rated current at 1/2 load:	62 A
Cos phi - power factor:	0,865
Cos phi - p.f. at 3/4 load:	0,833
Cos phi - p.f. at 1/2 load:	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90.6 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	88.1 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

Others:

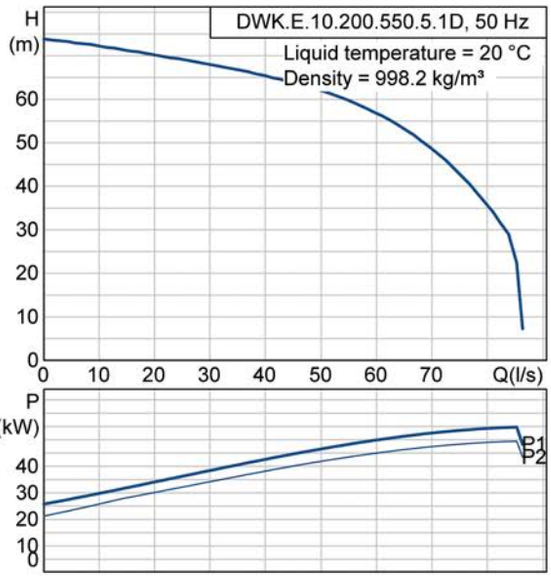
Net weight:	923 kg

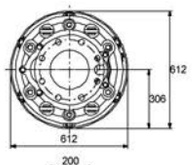

DWK.E.10.200.550.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
Q(l/s)
P
(kW)
50
40
30
20
10
0
P1
P2

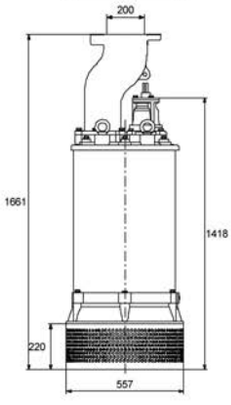
DWK.E.10.200.550.5.1D

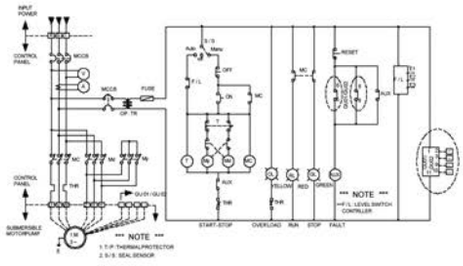
Product No.: 96922676

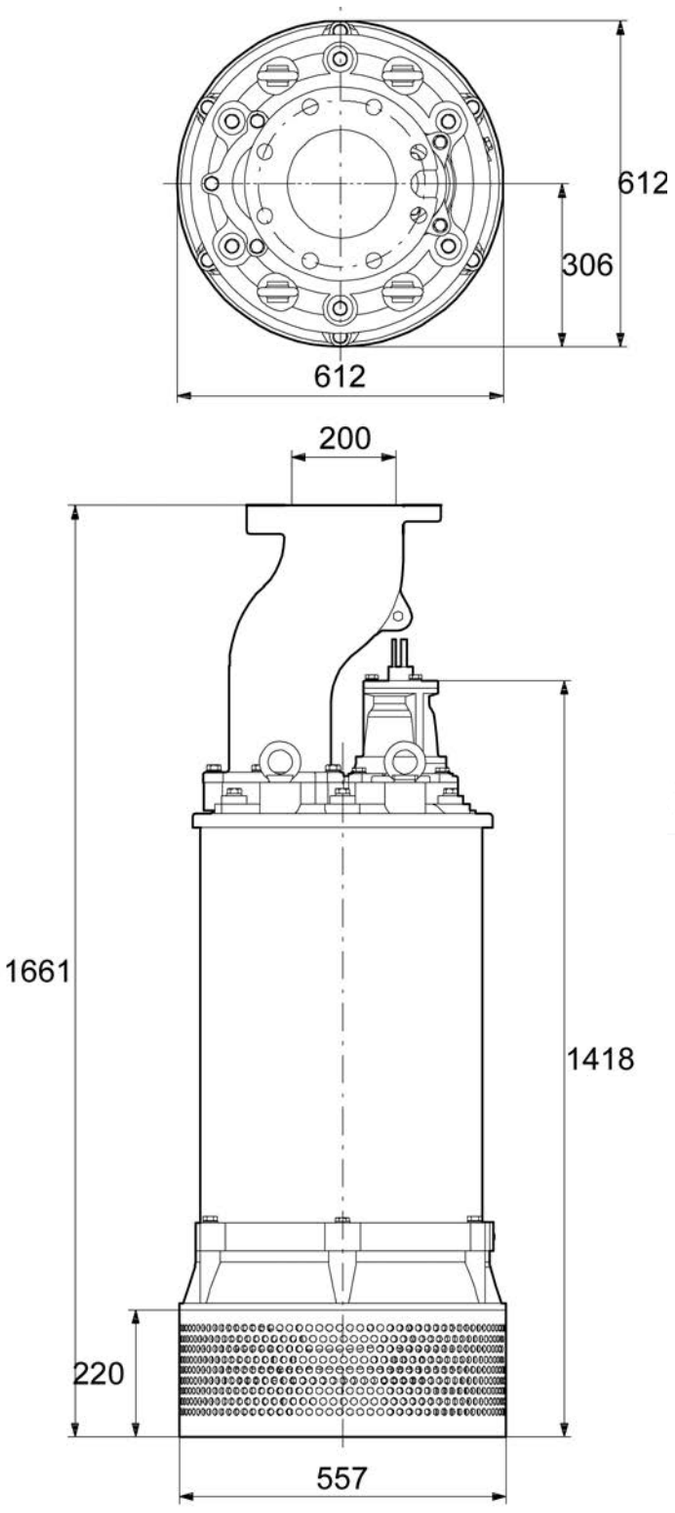
Description	Value
Product name:	DWK.E.10.200.550.5.1D
Product No:	96922676
EAN number:	5700313724635
Technical:	
Max flow:	96.3 l/s
Resulting head of the pump:	65.2 m
Head min:	3.97 m
Head max:	59.5 m
Actual impeller diameter:	232 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	59 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	105 A
Rated current at 3/4 load:	83 A
Rated current at 1/2 load:	62 A
Cos phi - power factor	0,865
Cos phi - p.f. at 3/4 load	0,833
Cos phi - p.f. at 1/2 load	0,756
Rated speed:	2850 rpm
Motor efficiency at full load:	90,6 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	88,1 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X25.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	923 kg



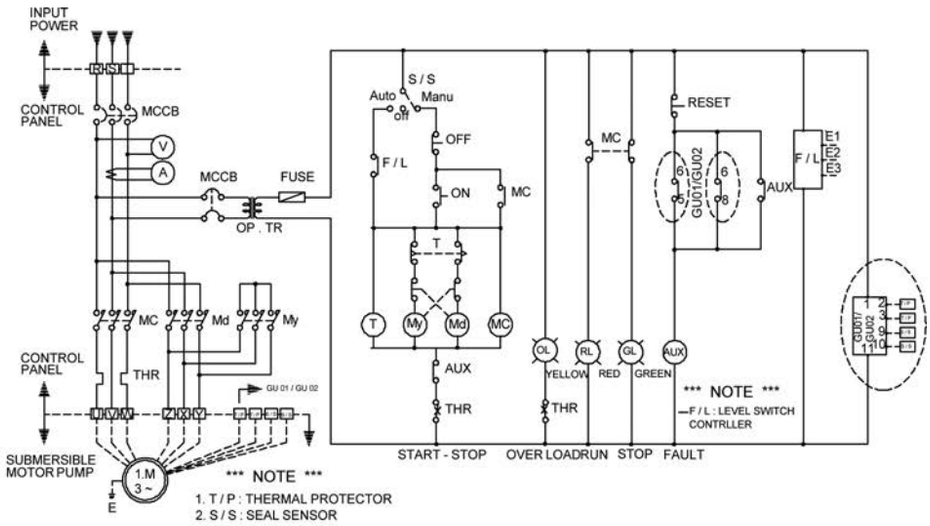








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.200.750.5.1D

Product No.: 96922677

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

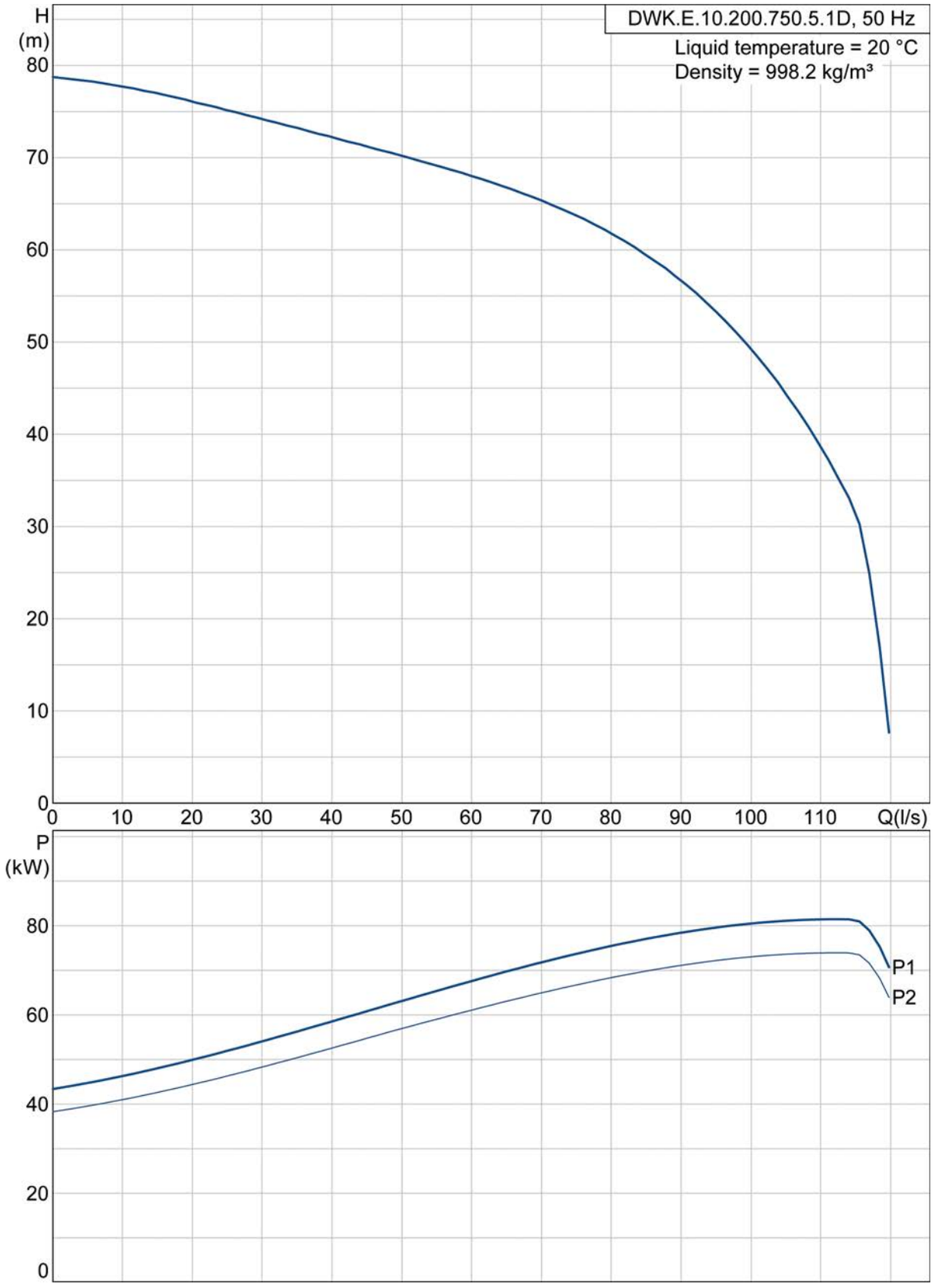
The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:	
Seal sensor:	Y
Liquid:	
Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Technical:	
Resulting head of the pump:	68.7 m
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	57 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m

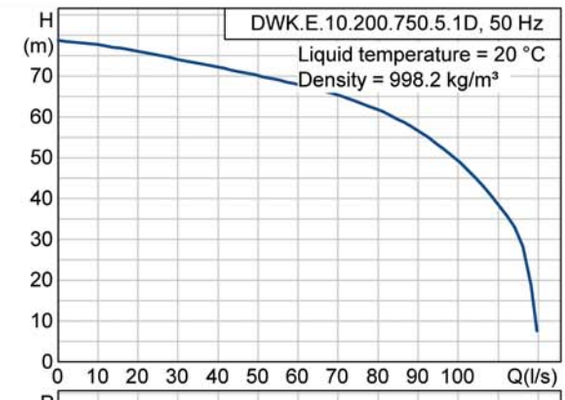
Electrical data:	
Number of poles:	2
Rated power - P2:	75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	144 A
Rated current at 3/4 load:	112 A
Rated current at 1/2 load:	84 A
Cos phi - power factor:	0,87
Cos phi - p.f. at 3/4 load:	0,838
Cos phi - p.f. at 1/2 load:	0,76
Rated speed:	2850 rpm
Motor efficiency at full load:	90,8 %
Motor efficiency at 3/4 load:	90,2 %
Motor efficiency at 1/2 load:	88,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Others:	
Net weight:	973 kg

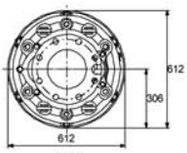

DWK.E.10.200.750.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100
110
Q(l/s)
P
(kW)
80
60
40
20
0
P1
P2

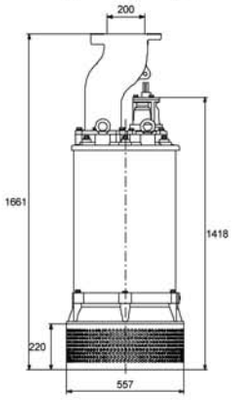
DWK.E.10.200.750.5.1D

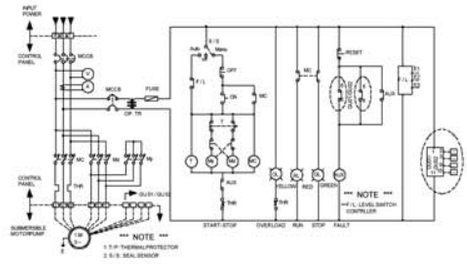
Product No.: 96922677

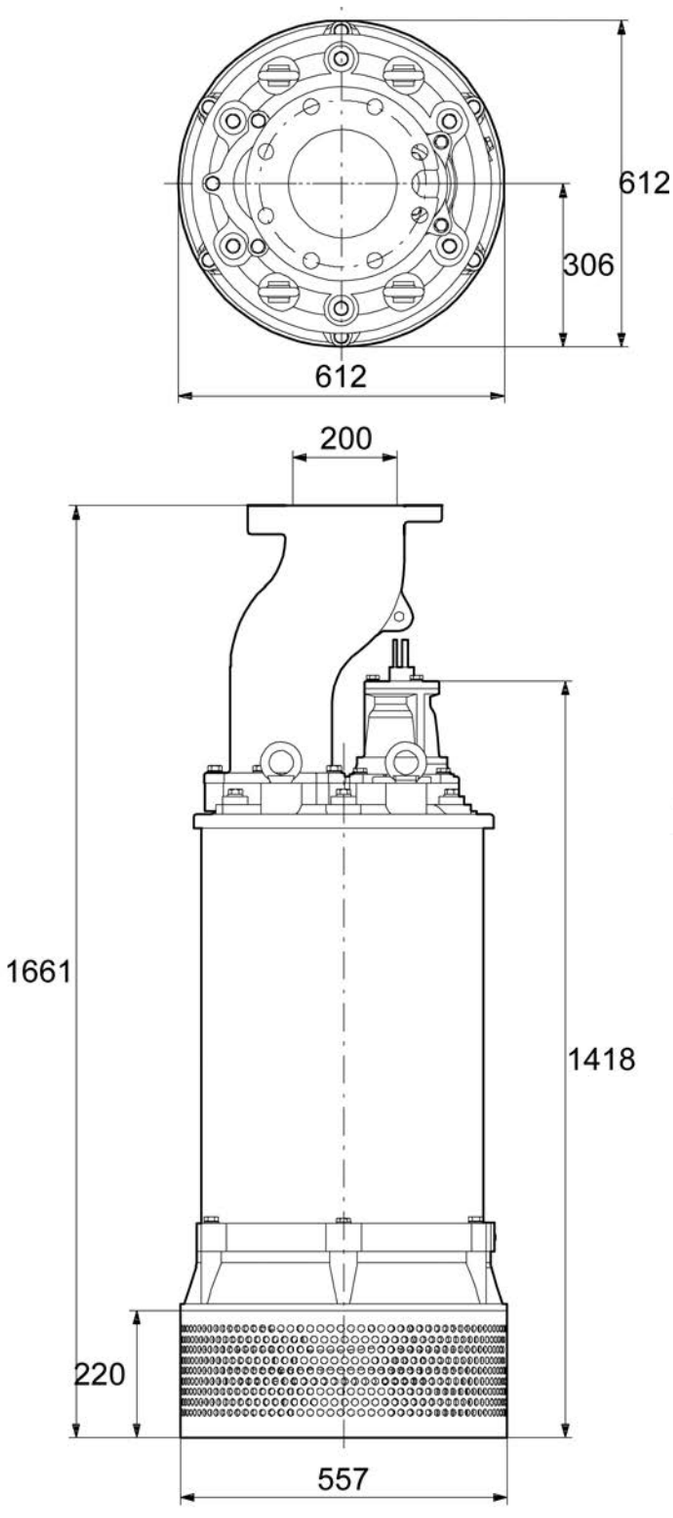
Description	Value
Product name:	DWK.E.10.200.750.5.1D
Product No:	96922677
EAN number:	5700313724642
Technical:	
Max flow:	83.6 l/s
Resulting head of the pump:	68.7 m
Head min:	3.59 m
Head max:	84.6 m
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	57 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	144 A
Rated current at 3/4 load:	112 A
Rated current at 1/2 load:	84 A
Cos phi - power factor	0,87
Cos phi - p.f. at 3/4 load	0,838
Cos phi - p.f. at 1/2 load	0,76
Rated speed:	2850 rpm
Motor efficiency at full load:	90,8 %
Motor efficiency at 3/4 load:	90,2 %
Motor efficiency at 1/2 load:	88,2 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	7X25.0MM2+6X1MM2
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	973 kg



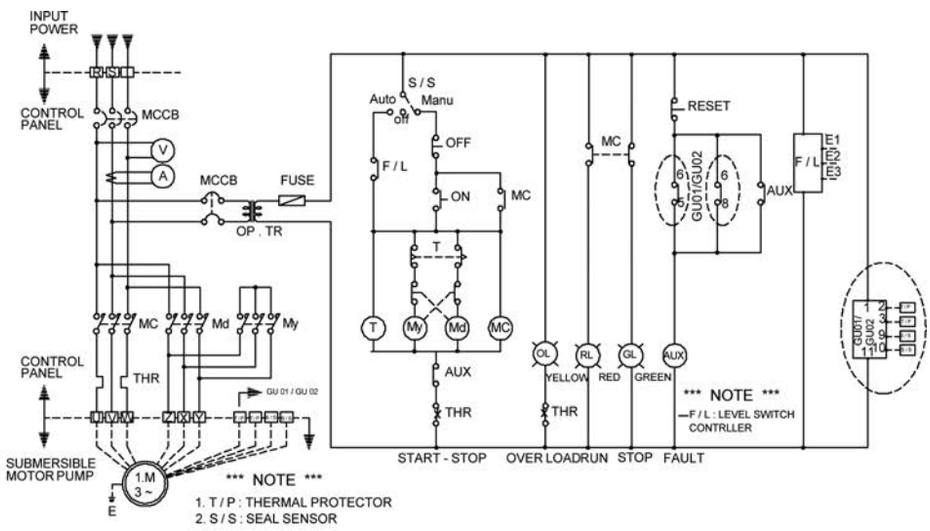








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Note! All units are in [mm] unless others are stated.

DWK.E.10.200.900.5.1D

Product No.: 96922678

Grundfos DWK pump is a submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Note! Product picture may differ from actual product

Controls:

Seal sensor:	Y

Liquid:

Liquid temperature range:	0.. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m^3

Technical:

Resulting head of the pump:	78 m
Actual impeller diameter:	275 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	56 %

Materials:

Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20

Installation:

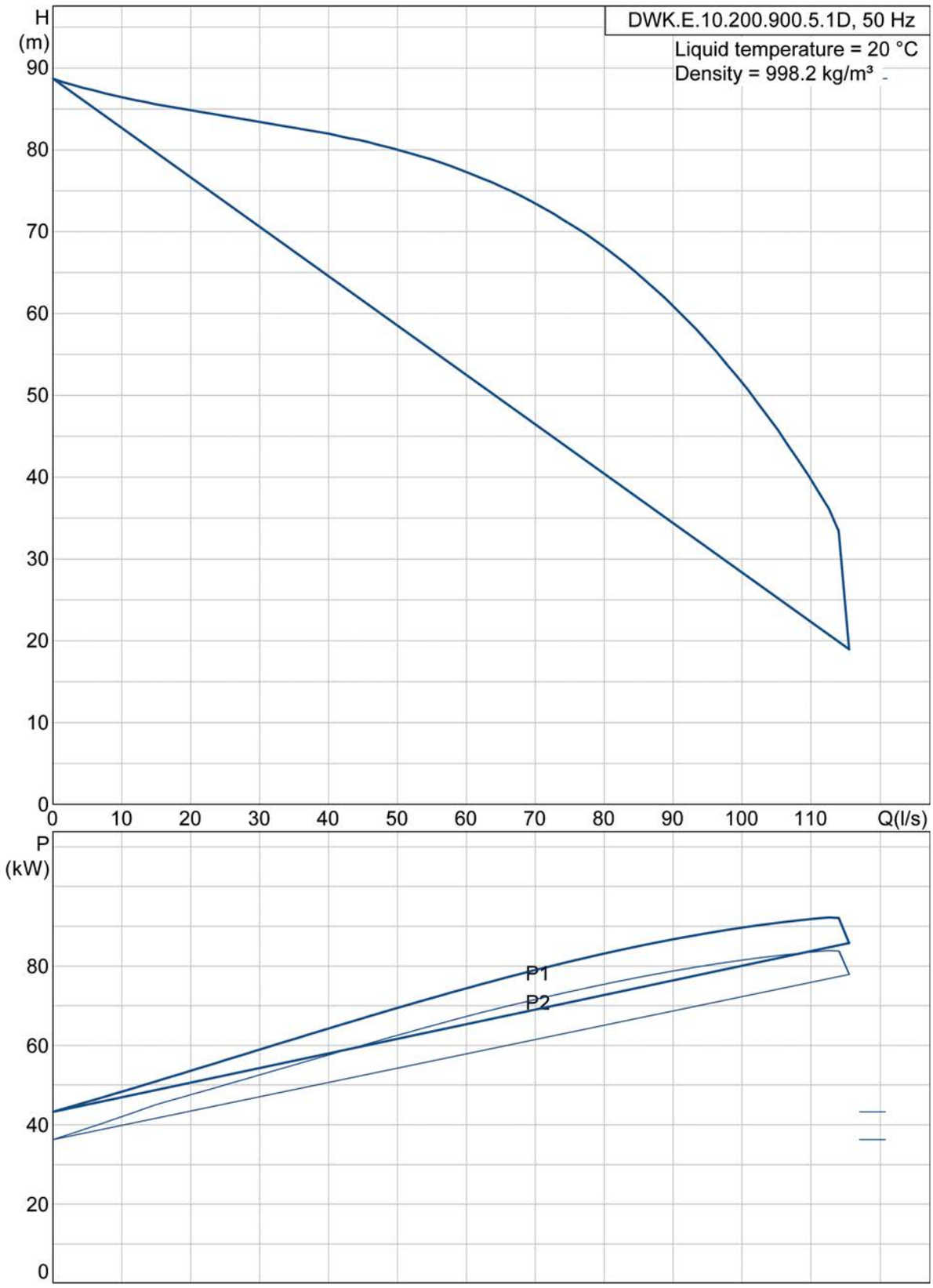
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m

Electrical data:

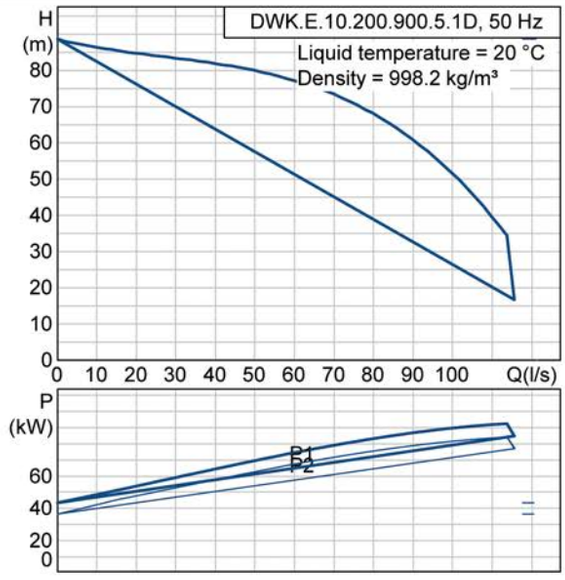
Number of poles:	2
Rated power - P2:	90 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380V or 3 x 525V
Voltage tolerance:	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	172 A
Rated current at 3/4 load:	135 A
Rated current at 1/2 load:	101 A
Cos phi - power factor:	0,87
Cos phi - p.f. at 3/4 load:	0,838
Cos phi - p.f. at 1/2 load:	0,76
Rated speed:	2850 rpm
Motor efficiency at full load:	91,1 %
Motor efficiency at 3/4 load:	90,5 %
Motor efficiency at 1/2 load:	88.5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90

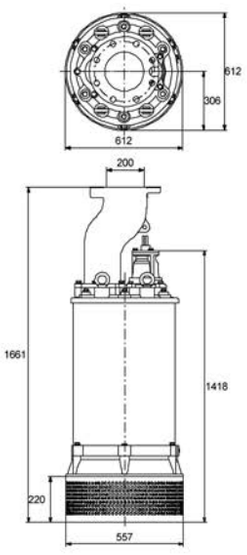
Others:

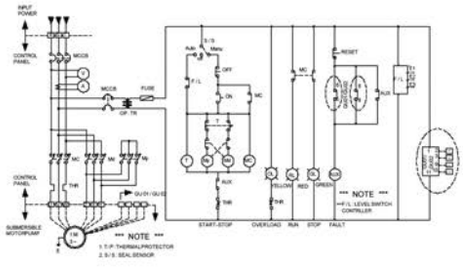
Net weight:	1030 kg

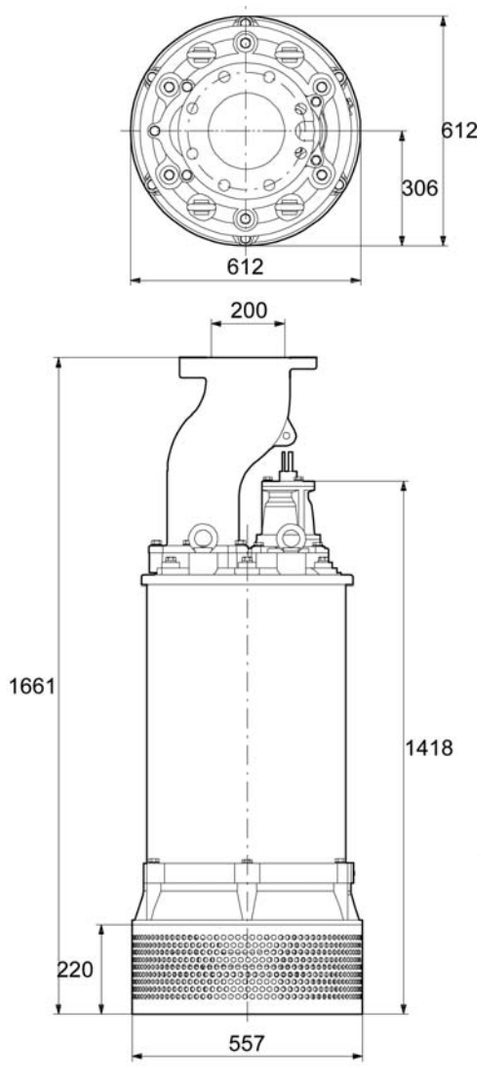

DWK.E.10.200.900.5.1D, 50 Hz
Liquid temperature = 20 °C
Density = 998.2 kg/m³
H
(m)
90
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100
110
Q(l/s)
P
(kW)
80
60
40
20
0
P1
P2

Description	Value
Product name:	DWK.E.10.200.900.5.1D
Product No:	96922678
EAN number:	5700313724659
Technical:	
Max flow:	121 l/s
Resulting head of the pump:	78 m
Head min:	3.63 m
Head max:	85.5 m
Actual impeller diameter:	275 mm
Type of impeller:	ENCLOSED
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-SIC
Max. hydraulic efficiency:	56 %
Materials:	
Pump housing:	Cast iron
	DIN W.-Nr. GG20
Impeller:	Ductile cast iron
	DIN W.-Nr. GCD200
Motor:	Cart iron
	DIN W.-Nr. GG20
Installation:	
Maximum ambient temperature:	40 °C
Pump outlet:	DN200
Maximum installation depth:	25 m
Liquid:	
Liquid temperature range	0 .. 40 °C
Liquid temp:	20 °C
Density:	998.2 kg/m³
Min. pH-value:	4
Electrical data:	
Number of poles:	2
Rated power - P2:	90 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance	+5/-5 %
Start. method:	Y/D
Max starts per. hour:	18
Rated current:	172 A
Rated current at 3/4 load:	135 A
Rated current at 1/2 load:	101 A
Cos phi - power factor	0,87
Cos phi - p.f. at 3/4 load	0,838
Cos phi - p.f. at 1/2 load	0,76
Rated speed:	2850 rpm
Motor efficiency at full load:	91,1 %
Motor efficiency at 3/4 load:	90,5 %
Motor efficiency at 1/2 load:	88,5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Explosion proof:	N
Length of cable:	10 m
Cable type:	TP90/TP90
Cable size:	4X50.0MM2+6X1MM2 * 2EA
Controls:	
Seal sensor:	Y
Sensor type:	BI-METAL
Others:	
Net weight:	1030 kg

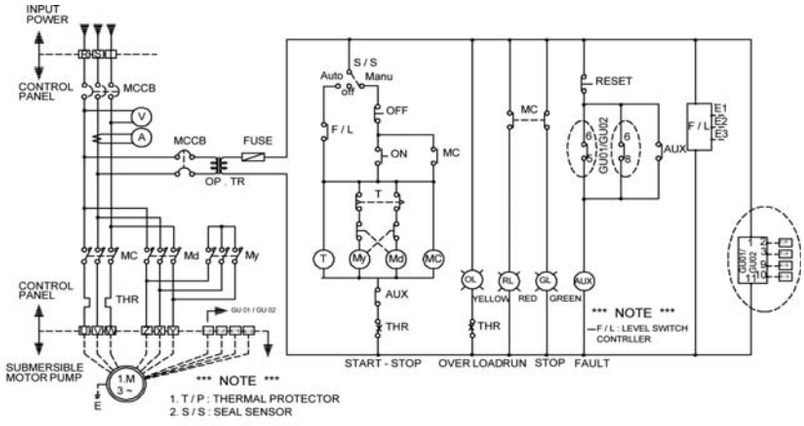








Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.



DWK - FLAMEPROOF

Grundfos DWK pump is a flameproof submersible pump for dewatering and drainage applications.

The pump is suitable for pumping

- large quantities of underground and surface water
- drainage water at high head
- water with dirt from drainage pits

The compact design makes the pump suitable for both temporary and permanent installation. The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation SANS 1561 (155°C). The pump is explosion protected and flameproof to 150°C

.

The pump has a rise pipe, a double mechanical seal and semi-open impeller type The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating. The pump is fitted with suction strainer, lifting handle and 10 m cable.

The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing. The cable sealing consists of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration into the motor.

Discharge	Model no	Out put	Head	Flow	Flow	Flow	Weight	Page
(mm)		(kW)	(m)	Q(L/sec)	Q(L/min)	Q(m^3/min)	(kg)	no
50	50KDOX 1.5 2T5	1.5	18.3	7.7	460.0	0.460	60	**85**
80	80KDOX 3.7 2T5	3.7	29.7	19.0	1140.0	1.140	93	**87**
	80KDOX 5.5 2T5	5.5	34.6	17.7	1062.0	1.062	98	**89**
100	100KDOX 7.5 2T5	7.5	38	21.2	1272.0	1.272	194	**91**
	100KDOX 11 2T5	11.0	45.5	30.7	1842.0	1.842	210	**93**

"We are also certified to inspect, repair and manufacture flameproof motors, pumps, fans, terminal boxes and enclosures.
SAEX certified SANS 60079-0/1 Permit no EXD-03R"

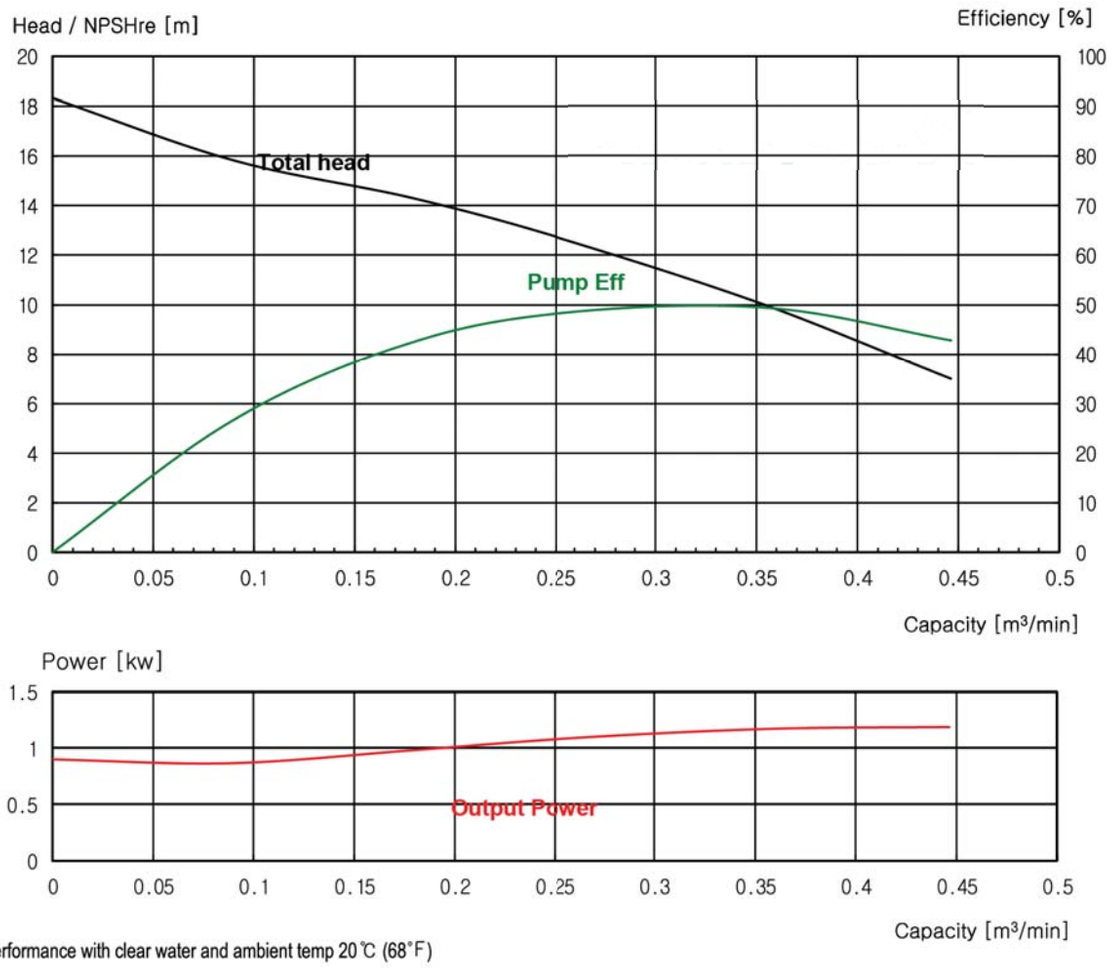
Pump Specification

1	Head Max	18.3	m
2	Max flow	0.4602	m^3/min
3	Discharge Dia.	50	mm
4	Hydraulic eff.	-	%
5	Revolution	2850	rpm
6	Max. Solid Size	6	mm

Motor Specification

Power Supply	3 Φ x 525 V/1000		
Rated Power	1.5	kw	
No. of Poles	2	P	
Rated current	2.6	A	
Load	50%	75%	100%
Efficiency(%)	76.2	77.8	78.4
Power Factor(%)	70.8	78	81

Pump Performance Curve



※ Performance with clear water and ambient temp 20℃ (68°F)

50KDOX 1.5 2T5

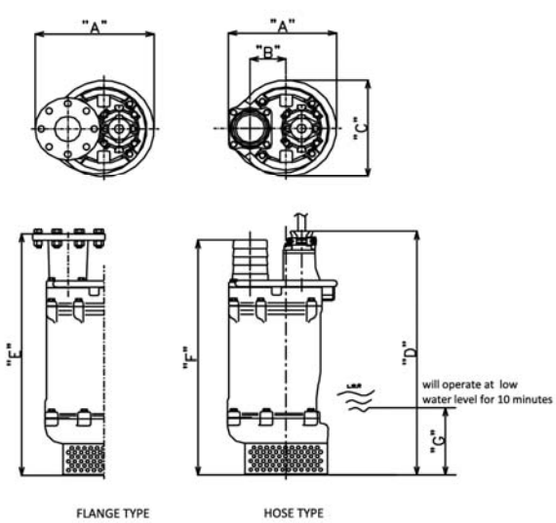
Motor Specification

1	Type		Squirrel cage induction motor	
2	Power Supply	- phase	3	Φ
3		- Rated Voltage	525/1000	V
4		- Frequency	50	Hz
5	Rated Power		1.5	kW
6	No. of Poles		2	P
7	Rated Speed		2850	rpm
8	Rating		Continuous	
9	Rotor Type		Squirrel cage	
10	Enclosure Protection		Explosion protected - Ex d - 150 deg C	
16	Starting Method		Direct	
11	Insulation Class		SANS 1561	
12	Efficiency		78.4	%
13	Power Factor		81	%
14	Rated current		2.6	A
15	Starting Current		17	A
17	Full Load Torque		0.51	kg.m
18	Locked Rotor Torque		195	%
19	Breakdown Torque		240	%
20	NEMA Code Letter		G	
21	Service Factor		1.1	
22	No. of starts per hour		15	
23	Design Standard		NEMA-Design B	
24	Voltage Tolerance		±10	%
25	Frequency Tolerance		±5	%

Motor Load Data

	Load		50%	75%	100%
1	Input Power	(KW)	1	1.4	1.9
2	Output Power	(KW)	0.8	1.1	1.5
3	Current	(A)	1.6	2	2.6
4	Efficiency	(%)	76.2	77.8	78.4
5	Power Factor	(%)	70.8	78	81
6	Speed	(rpm)	2931	2892	2850

MODEL	50KDOX1.5 T		80KDOX3.7 T		80KDOX5.5 T		100KDOX7.5 T		100KDOX11T	
No.	DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)	
	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE
A	258	285.5	307	337.5	307	337.5	363	392.5	363	3925
B	78		102		102		130		130	
C	260		286		286		341		341	
D	612		699		699		911		911	
E	551		713		713		905		905	
F	556		693		693		885		885	
G	180		180		180		180		180	
Weight(Kg)	60		93		98		194		210	



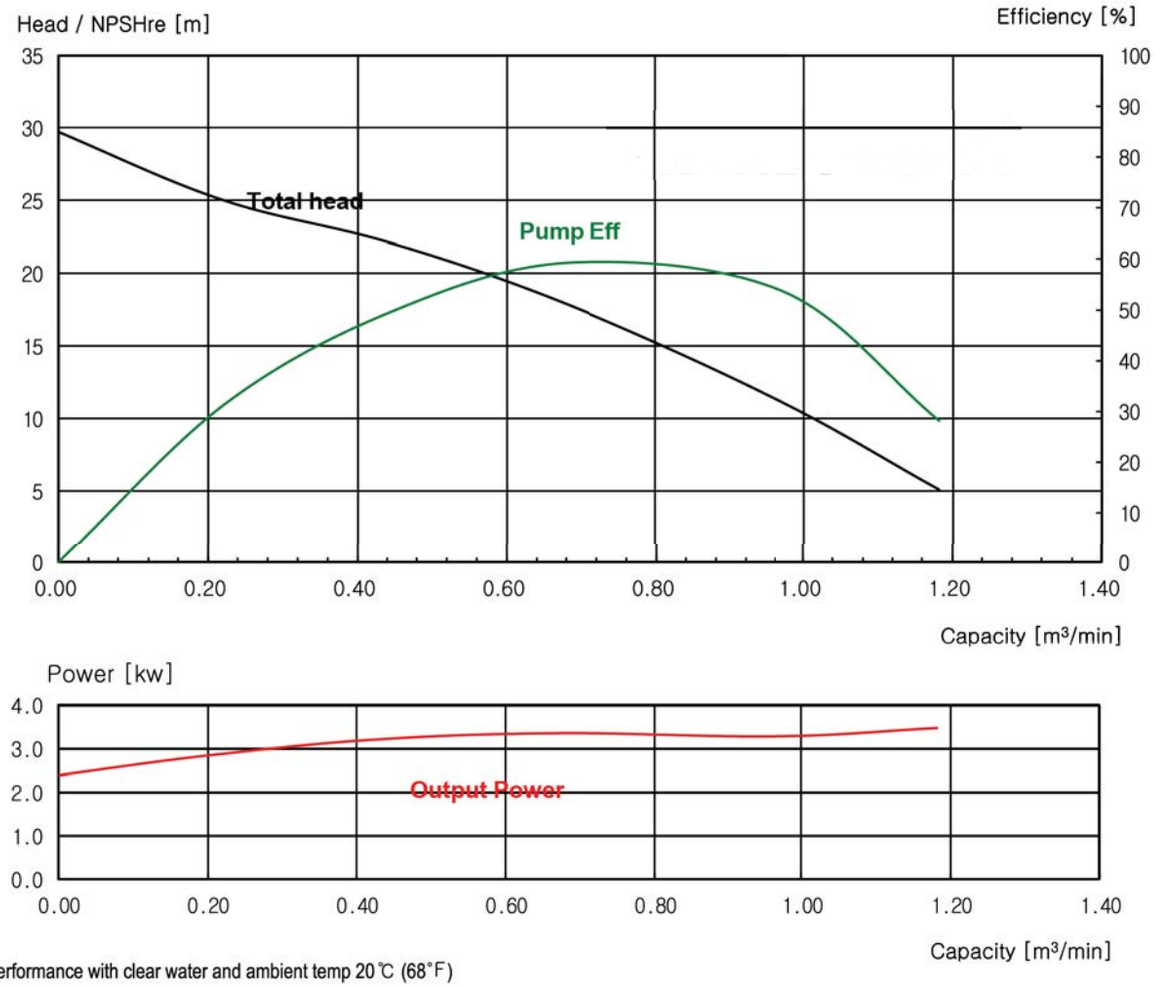
Pump Specification

1	Head Max	----------	29.7	m
2	Max flow	----------	1.14	m^3/min
3	Discharge Dia.	----------	80	mm
4	Hydraulic eff.	----------	-	%
5	Revolution	----------	2850	Kw
6	Max. Solid Size	----------	10	rpm

Motor Specification

Power Supply	-------	3 Φ x 525 V/1000		
Rated Power	----------	3.7		kw
No. of Poles	----------	2		P
Rated current	----------	5.9		A
Load	-------	50%	75%	100%
Efficiency(%)	-------	80.2	81.9	82.5
Power Factor(%)	-------	72.5	79.9	83

Pump Performance Curve



※ Performance with clear water and ambient temp 20℃ (68°F)

80KDOX 3.7 2T5

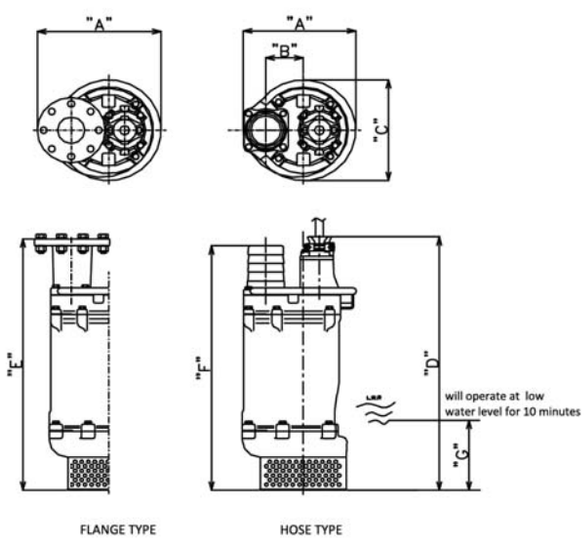
Motor Specification

1	Type		Squirrel cage induction motor	
2	Power Supply	- phase	3	Φ
3		- Rated Voltage	525/1000	V
4		- Frequency	50	Hz
5	Rated Power		3.7	kW
6	No. of Poles		2	P
7	Rated Speed		2850	rpm
8	Rating		Continuous	
9	Rotor Type		Squirrel cage	
10	Enclosure Protection		Explosion protected - Ex d - 150 deg C	
16	Starting Method		Direct	
11	Insulation Class		SANS 1561	
12	Efficiency		82.5	%
13	Power Factor		83	%
14	Rated current		5.9	A
15	Starting Current		47	A
17	Full Load Torque		1.26	kg.m
18	Locked Rotor Torque		190	%
19	Breakdown Torque		240	%
20	NEMA Code Letter		F	
21	Service Factor		1.1	
22	No. of starts per hour		15	
23	Design Standard		NEMA-Design B	
24	Voltage Tolerance		±10	%
25	Frequency Tolerance		±5	%

Motor Load Data

	Load		50%	75%	100%
1	Input Power	(KW)	2.4	3.4	4.4
2	Output Power	(KW)	1.9	2.8	3.7
3	Current	(A)	3.6	4.7	5.9
4	Efficiency	(%)	80.2	81.9	82.5
5	Power Factor	(%)	72.5	79.9	83
6	Speed	(rpm)	2931	2892	2850

MODEL	50KDOX1.5 T		80KDOX3.7 T		80KDOX5.5 T		100KDOX7.5 T		100KDOX11 T	
No.	DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)	
	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE
A	258	285.5	307	337.5	307	337.5	363	392.5	363	392.5
B	78		102		102		130		130	
C	260		286		286		341		341	
D	612		699		699		911		911	
E	551		713		713		905		905	
F	556		693		693		885		885	
G	180		180		180		180		180	
Weight(Kg)	60		93		98		194		210	



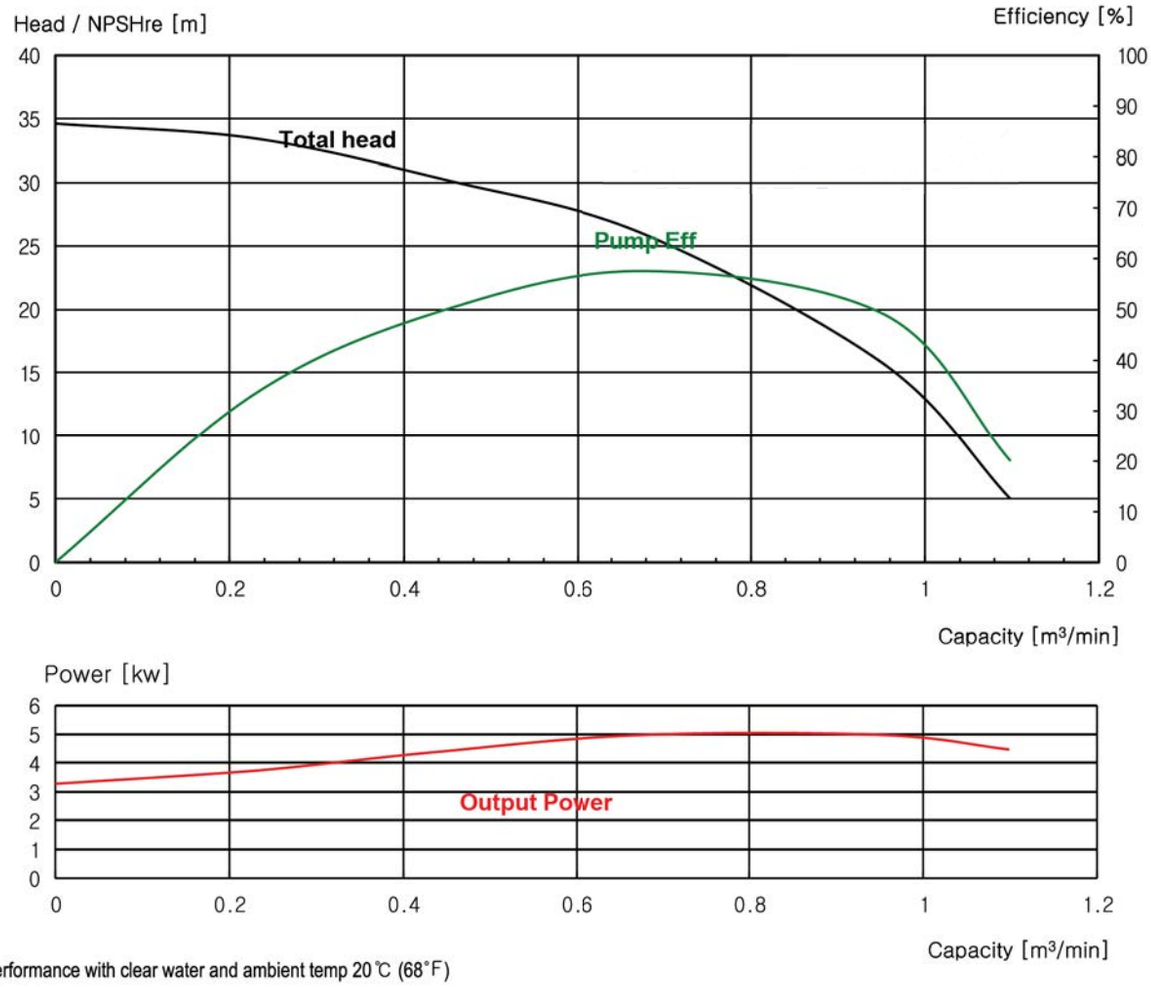
Pump Specification

1	Head Max	34.6	m
2	Max flow	1.062	m^3/min
3	Discharge Dia.	80	mm
4	Hydraulic eff.	-	%
5	Revolution	2850	rpm
6	Max. Solid Size	13	mm

Motor Specification

Power Supply	3 Φ x 525 V/1000		
Rated Power	5.5	kw	
No. of Poles	2	P	
Rated current	8.6	A	
Load	50%	75%	100%
Efficiency(%)	82.2	84	84.6
Power Factor(%)	72.5	79.9	83

Pump Performance Curve



※ Performance with clear water and ambient temp 20℃ (68°F)

80KDOX 5.5 2T5

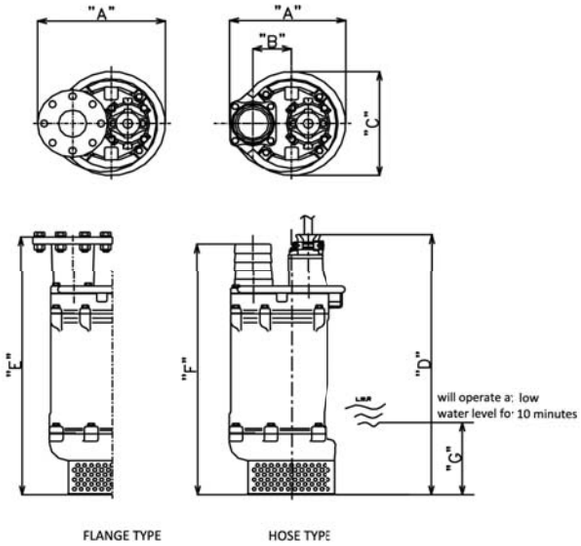
Motor Specification

1	Type		Squirrel cage induction motor	
2	Power Supply	- phase	3	Φ
3		- Rated Voltage	525/1000	V
4		- Frequency	50	Hz
5	Rated Power		5.5	kW
6	No. of Poles		2	P
7	Rated Speed		2850	rpm
8	Rating		Continuous	
9	Rotor Type		Squirrel cage	
10	Enclosure Protection		Explosion protected - Ex d - 150 deg C	
16	Starting Method		Direct	
11	Insulation Class		SANS 1561	
12	Efficiency		84.6	%
13	Power Factor		83	%
14	Rated current		8.6	A
15	Starting Current		63	A
17	Full Load Torque		1.88	kg.m
18	Locked Rotor Torque		160	%
19	Breakdown Torque		210	%
20	NEMA Code Letter		F	
21	Service Factor		1.1	
22	No. of starts per hour		15	
23	Design Standard		NEMA-Design B	
24	Voltage Tolerance		±10	%
25	Frequency Tolerance		±5	%

Motor Load Data

	Load		50%	75%	100%
1	Input Power	(KW)	3.4	4.9	6.5
2	Output Power	(KW)	2.8	4.1	5.5
3	Current	(A)	5.2	6.7	8.6
4	Efficiency	(%)	82.2	84	84.6
5	Power Factor	(%)	72.5	79.9	83
6	Speed	(rpm)	2931	2892	2850

MODEL	50KDOX1.5 T		80KDOX3.7 T		80KDOX5.5 T		100KDOX7.5 T		100KDOX11T	
No.	DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)	
	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE
A	258	285.5	307	337.5	307	337.5	363	392.5	363	392.5
B	78		102		102		130		130	
C	260		286		286		341		341	
D	612		699		699		911		911	
E	551		713		713		905		905	
F	556		693		693		885		885	
G	180		180		180		180		180	
Weight(Kg)	60		93		98		194		210	



100KDOX 7.5 2T5

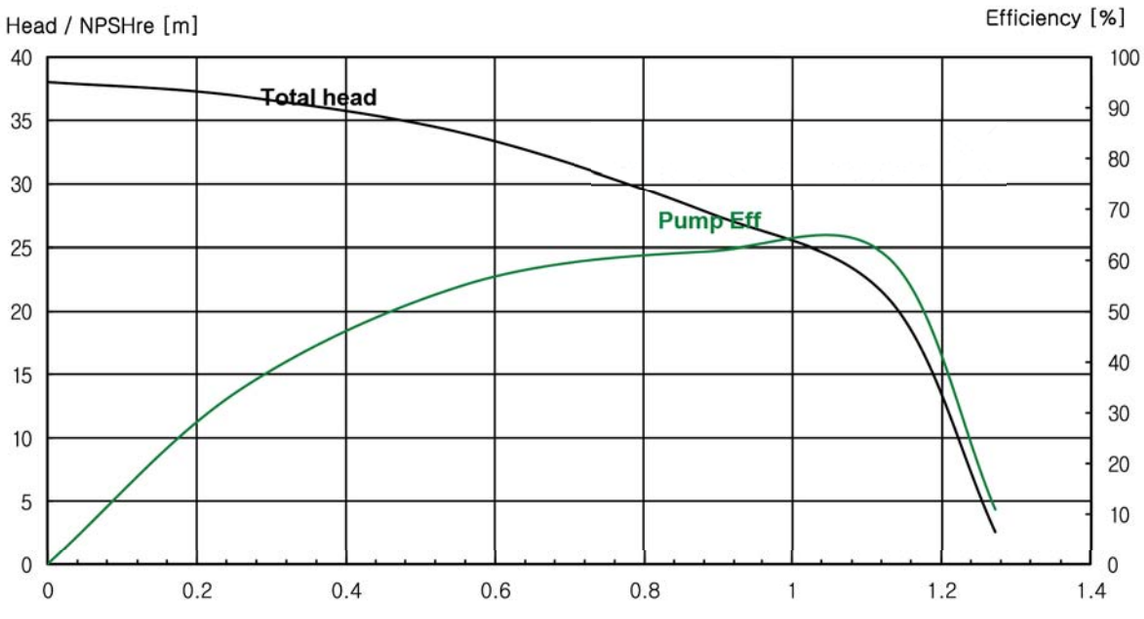
Pump Specification

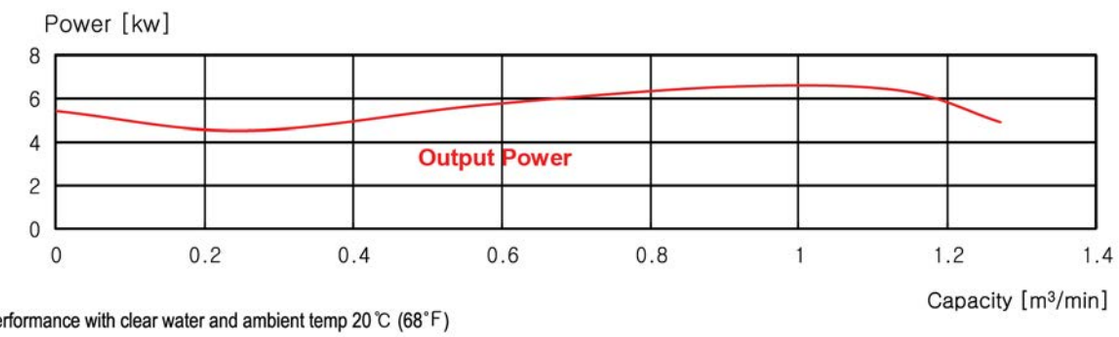
1	Head Max	----------	38	m
2	Max flow	----------	1.272	m^3/min
3	Discharge Dia.	----------	100	mm
4	Hydraulic eff.	----------	-	%
5	Revolution	----------	2850	rpm
6	Max. Solid Size	----------	13	mm

Motor Specification

Power Supply	-------	3 Φ x 525 V/1000		
Rated Power	----------	7.5	kw	
No. of Poles	----------	2	P	
Rated current	----------	11.6	A	
Load	-------	50%	75%	100%
Efficiency(%)	-------	83.2	85	85.6
Power Factor(%)	-------	72.5	79.9	83

Pump Performance Curve





※ Performance with clear water and ambient temp 20℃ (68°F)

100KDOX 7.5 2T5

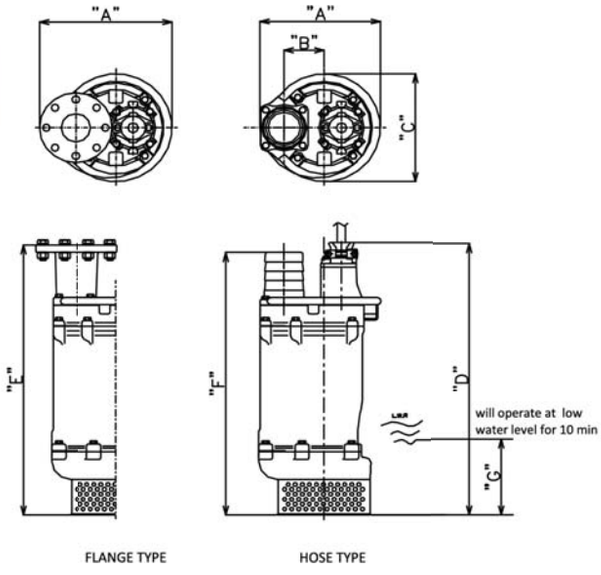
Motor Specification

1	Type		Squirrel cage induction motor	
2	Power Supply	- phase	3	Φ
3		- Rated Voltage	525\1000	V
4		- Frequency	50	Hz
5	Rated Power		7.5	kW
6	No. of Poles		2	P
7	Rated Speed		2850	rpm
8	Rating		Continuous	
9	Rotor Type		Squirrel cage	
10	Enclosure Protection		Explosion protected - Ex d - 150 deg C	
16	Starting Method		Direct	
11	Insulation Class		SANS 1561	
12	Efficiency		85.6	%
13	Power Factor		83	%
14	Rated current		11.6	A
15	Starting Current		83	A
17	Full Load Torque		2.56	kg.m
18	Locked Rotor Torque		180	%
19	Breakdown Torque		225	%
20	NEMA Code Letter		F	
21	Service Factor		1.1	
22	No. of starts per hour		15	
23	Design Standard		NEMA-Design B	
24	Voltage Tolerance		±10	%
25	Frequency Tolerance		±5	%

Motor Load Data

	Load		50%	75%	100%
1	Input Power	(KW)	4.6	6.6	8.8
2	Output Power	(KW)	3.8	5.6	7.5
3	Current	(A)	6.9	9.1	11.6
4	Efficiency	(%)	83.2	85	85.6
5	Power Factor	(%)	72.5	79.9	83
6	Speed	(rpm)	2931	2892	2850

MODEL	50KDOX1.5 T		80KDOX3.7 T		80KDOX5.5 T		100KDOX7.5 T		100KDOX11 T	
No.	DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)	
	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE
A	258	285.5	307	337.5	307	337.5	363	392.5	363	392.5
B	78		102		102		130		130	
C	260		286		286		341		341	
D	612		699		699		911		911	
E	551		713		713		905		905	
F	556		693		693		885		885	
G	180		180		180		180		180	
Weight(Kg)	60		93		98		194		210	



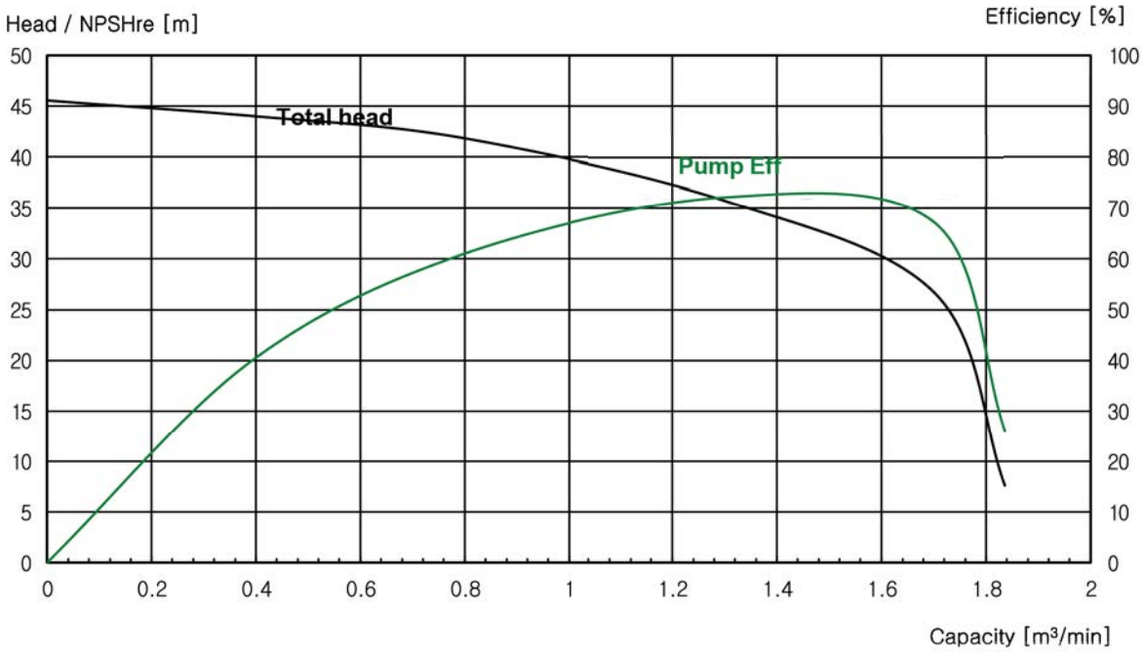
Pump Specification

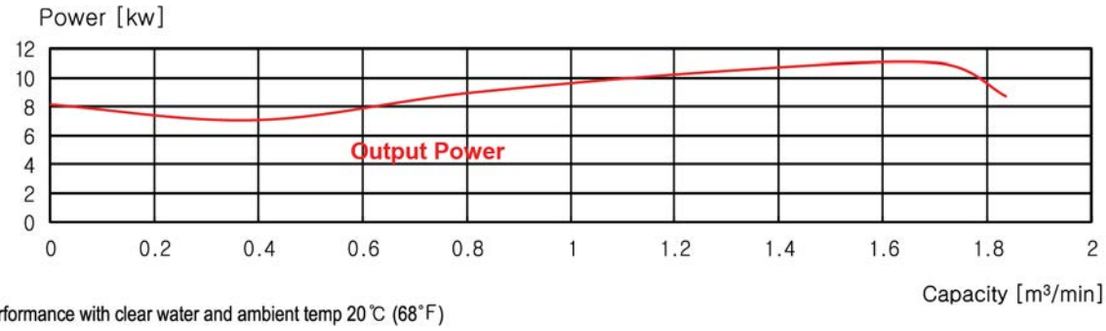
1	Head Max	----------	45.5	m
2	Max flow	----------	1.842	m^3/min
3	Discharge Dia.	----------	100	mm
4	Hydraulic eff.	----------	-	%
5	Revolution	----------	2850	rpm
6	Max. Solid Size	----------	13	mm

Motor Specification

Power Supply	-------	3 Φ x 525 V/1000		
Rated Power	----------		11	kw
No. of Poles	----------		2	P
Rated current	----------		16	A
Load	-------	50%	75%	100%
Efficiency(%)	-------	84.2	86	86.6
Power Factor(%)	-------	72.7	80.1	83.2

Pump Performance Curve





※ Performance with clear water and ambient temp 20℃ (68°F)

100KDOX 11 2T5

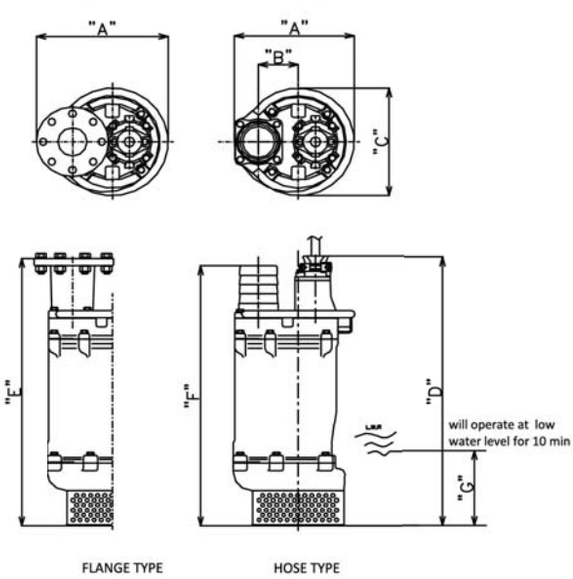
Motor Specification

1	Type		Squirrel cage induction motor	
2	Power Supply	- phase	3	Φ
3		- Rated Voltage	525\1000	V
4		- Frequency	50	Hz
5	Rated Power		11	kW
6	No. of Poles		2	P
7	Rated Speed		2850	rpm
8	Rating		Continuous	
9	Rotor Type		Squirrel cage	
10	Enclosure Protection		Explosion protected - Ex d - 150 deg C	
16	Starting Method		Direct	
11	Insulation Class		SANS 1561	
12	Efficiency		86.6	%
13	Power Factor		83.2	%
14	Rated current		16.8	A
15	Starting Current		120	A
17	Full Load Torque		3.76	kg.m
18	Locked Rotor Torque		170	%
19	Breakdown Torque		210	%
20	NEMA Code Letter		F	
21	Service Factor		1.1	
22	No. of starts per hour		15	
23	Design Standard		NEMA-Design B	
24	Voltage Tolerance		±10	%
25	Frequency Tolerance		±5	%

Motor Load Data

	Load		50%	75%	100%
1	Input Power	(KW)	6.5	9.5	12.7
2	Output Power	(KW)	5.5	8.2	11
3	Current	(A)	9.9	13.1	16.8
4	Efficiency	(%)	84.2	86	86.6
5	Power Factor	(%)	72.7	80.1	83.2
6	Speed	(rpm)	2931	2892	2850

MODEL	50KDOX1.5 T		80KDOX3.7 T		80KDOX5.5 T		100KDOX7.5 T		100KDOX11 T	
No.	DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)		DIMENSION (mm)	
	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE	HOSE	FLANGE
A	258	285.5	307	337.5	307	337.5	363	392.5	363	392.5
B	78		102		102		130		130	
C	260		286		286		341		341	
D	612		699		699		911		911	
E	551		713		713		905		905	
F	556		693		693		885		885	
G	180		180		180		180		180	
Weight(Kg)	60		93		98		194		210	



Discharge	Model no	Out put	Head	Flow	Flow	Flow	Weight	Dimensions (mm)				Page
(mm)		(kW)	(m)	Q(L/sec)	Q(L/min)	Q(m^3/min)	(kg)	A	C	D	F	no
50	50-2.2-HSP	2.2	12	4.17	250	0.25	58	240	220	570	410	**98**
80	80-3.7-HSP	3.7	10	16.67	1000	1	105	520	380	740	480	**100**
100	100-5.5-HSP	5.5	10	23.33	1400	1.4	123	520	380	770	500	**102**
100	100-7.5-HSP	7.5	15	16.67	1000	1	201	600	460	910	600	**104**
100	100-11-HSP	11	20	20.00	1200	1.2	248	600	460	1100	800	**106**
100	100-15-HSP	15	25	25.00	1500	1.5	264	600	460	1100	800	**108**
100	100-22-HSP	22	30	25.00	1500	1.5	410	700	520	1250	950	**110**
150	150-11-6HSP	11	8	53.33	3200	3.2	480	750	570	1160	870	**112**
150	150-15-6HSP	15	10	53.33	3200	3.2	510	750	570	1160	870	**114**
150	150-22-6HSP	22	15	53.33	3200	3.2	640	1150	720	1440	1000	**116**
150	150-37-HSP	37	25	53.33	3200	3.2	820	1150	720	1500	1100	**118**
150	150-45-HSP	45	30	66.67	4000	4	830	1150	720	1500	1100	**120**
200	200-37-6HSP	37	15	100.00	6000	6	830	1150	720	1500	1100	**122**
200	200-55-6HSP	55	22	100.00	6000	6	1100	1150	790	1640	1100	**124**
200	200-75-6HSP	75	27	100.00	6000	6	1100	1150	790	1640	1100	**126**
200	250-75-6HSP	75	18	166.67	10000	10	1600	1600	1010	1900	1100	**128**
300	300-75-6HSP	75	20	166.67	10000	10	1300	1600	1010	1900	1100	**130**

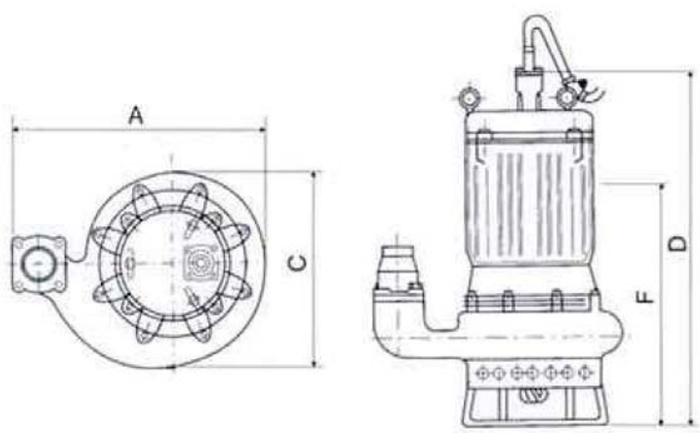
Application

Dredging and transfer of sand, slurry, mud, solids, heavy soil, stone dust, gravel, industrial waste at habours, offshore, rivers and lakes, mines underground and open cast, quarries, power stations, construction sites and civil works.

Pump Construction

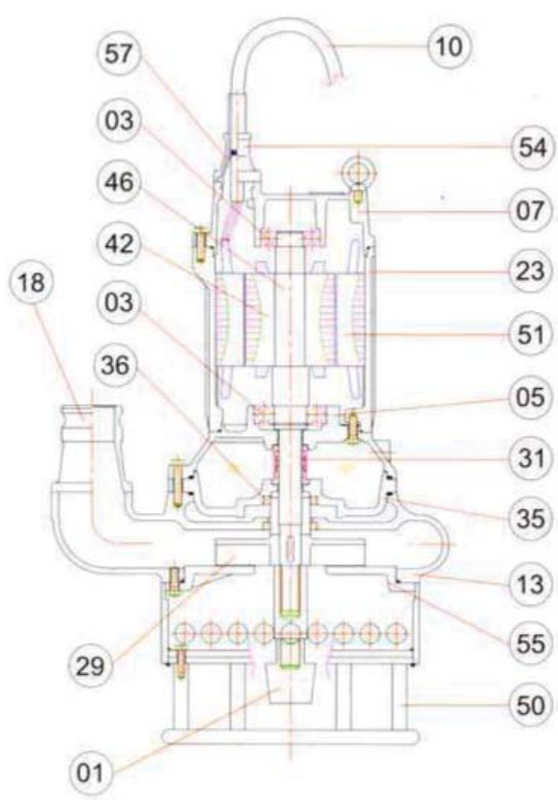
Heavy duty cast Iron with complete wet end in high chrome steel.

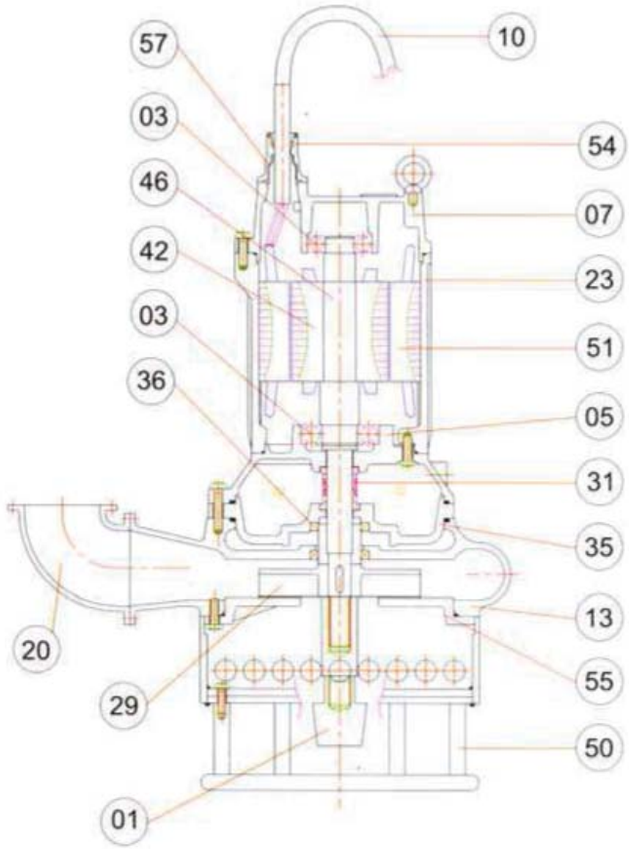
Outline Drawing



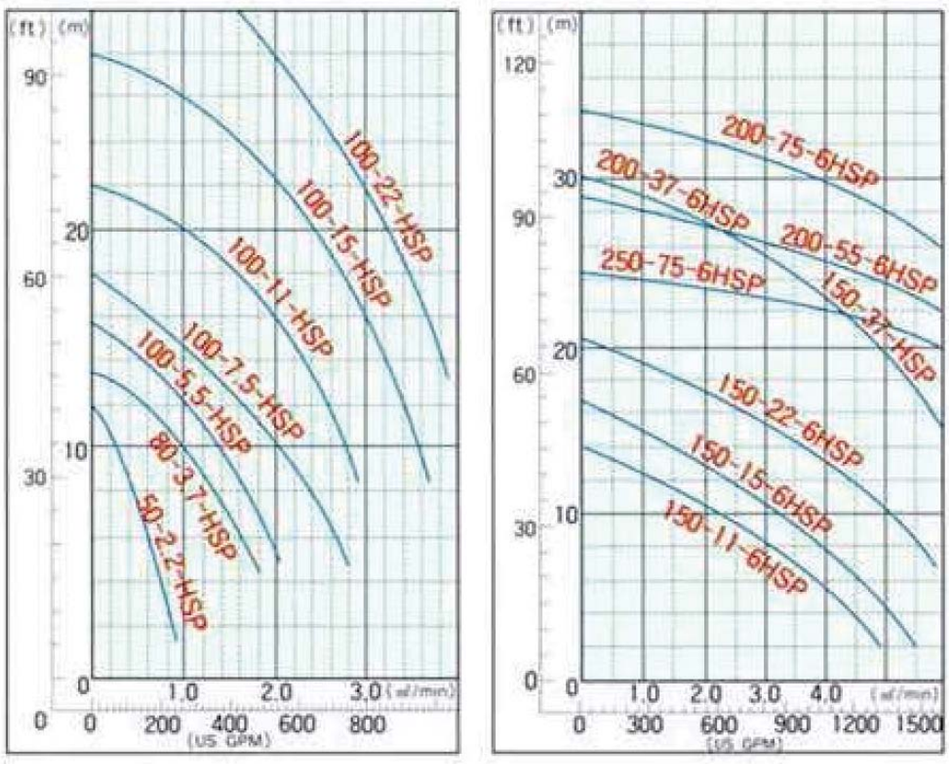
Build Materials & Parts

No	Parts name	Material	No	Parts name	Material
01	Agitator	Hi-Chrome	31	Mechanical Seal	SIC / SIC
03	Bearing	Steel	35	Oil Casing	GC 200
05	Bearing Housing	GC 200	36	Oil Seal	NBR
07	Bracket	GC 200	42	Rotor	Si-60
10	Cabtyre Cable	3 RNCT	46	Shaft	SCM 440
13	Casing	GC 200	50	Stand	SS 400
18	Coupling	GC 200	51	Stator	Si-60
20	Discharge Elbow	GC 200	54	Stuffing Box	GC 200
23	Frame	GC 200	55	Suction Cover	Hi-Chrome
29	Impeller	Hi-Chrome	57	Cable Tube	Rubber





Performance Curve



Description

General	Discharge diametre		100 / 150 / 200 / 250 / 300
Liquid	Fluid		Sand , Slurry
Pumped	Temperature		Max 40°C
		Impeller	Open / Closed type
	Construction	Shaft sealing	Double mechanical seal
		Bearing	7(6)3xx ZZ
Pump		Impeller	Hi-cr(24)
	Material	Casing	GC200 / GCD450(option)
		Suction cover	Hi-cr(24)
		Mechanical seal	SIC & Ceramic
	Pole		2 / 4 / 6 pole
	Phase and Voltage		60(50) Hz 3 Phase 220V / 380V / 460V
Motor	Lubricant		ISO VG32
		Frame	GC200
	Material	Shaft	SCM440 or STS410
		Cabtyre cable	3(RN)CT
Discharge outlet			Hose coupling/Flange coupling/Others

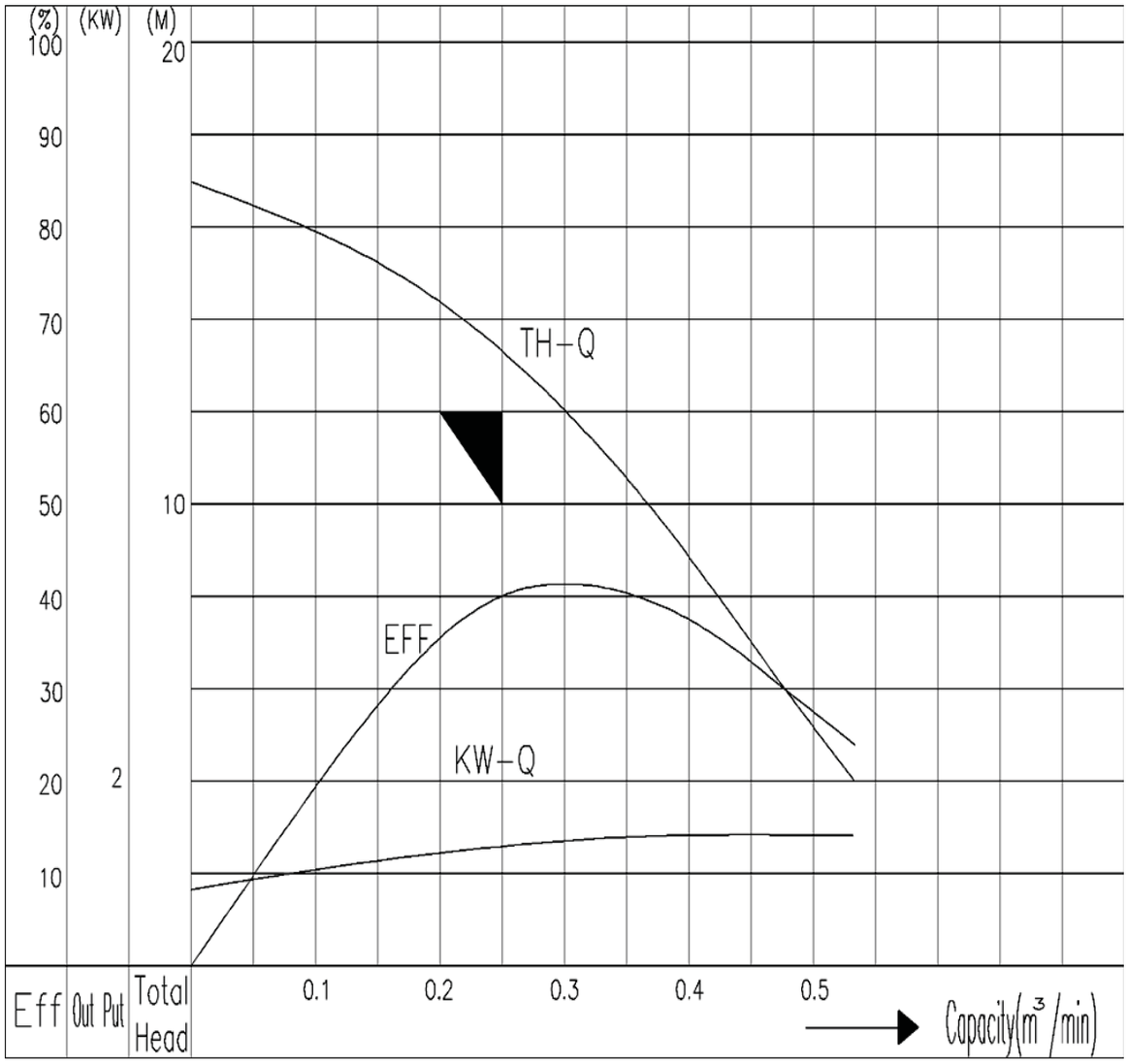
2.1 50-2.2-HSP

Design Data of Pump					
Discharge Diameter	50	mm	Efficiency	40.8	%
Shut-Off Head	21	m	Speed	2 850	rpm
Total Head	12	m	Bearing, Upper	6204	ZZ
Capacity	0.25	m^3/min.	Bearing, Lower	6306	ZZ
Ingress Protection	IP-68		Max. Solid Passage	13	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	2.2	kW	Voltage	525	Volts
Number of Poles	2	Poles	Frequency	50	Hz
Full load Current	3.9	Amp.	Phase	3	phase
Shaft Power	1.2	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 2.0sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	℃	Viscosity		
Painting Thickness	140 ~ 180 μm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Hose Coupling	
Mechanical Seal	H - 20	mm	Oil Seal	507212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	50	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	58	Kgs.	Dimension (WxDxH)	240 x 215 x 510mm	

50-2.2-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	2.2	kW	Model of Pump	50-2.2-HSP	
Voltage	525	Volts	Discharge Diameter	50	mm
Full Load Current	3.9	Amp.	Total Head	12	m
Number of Poles	2	Poles	Capacity (Flow Rate)	0.25	m^3/min.
Frequency	50	Hz	Motor Speed	2 850	rpm



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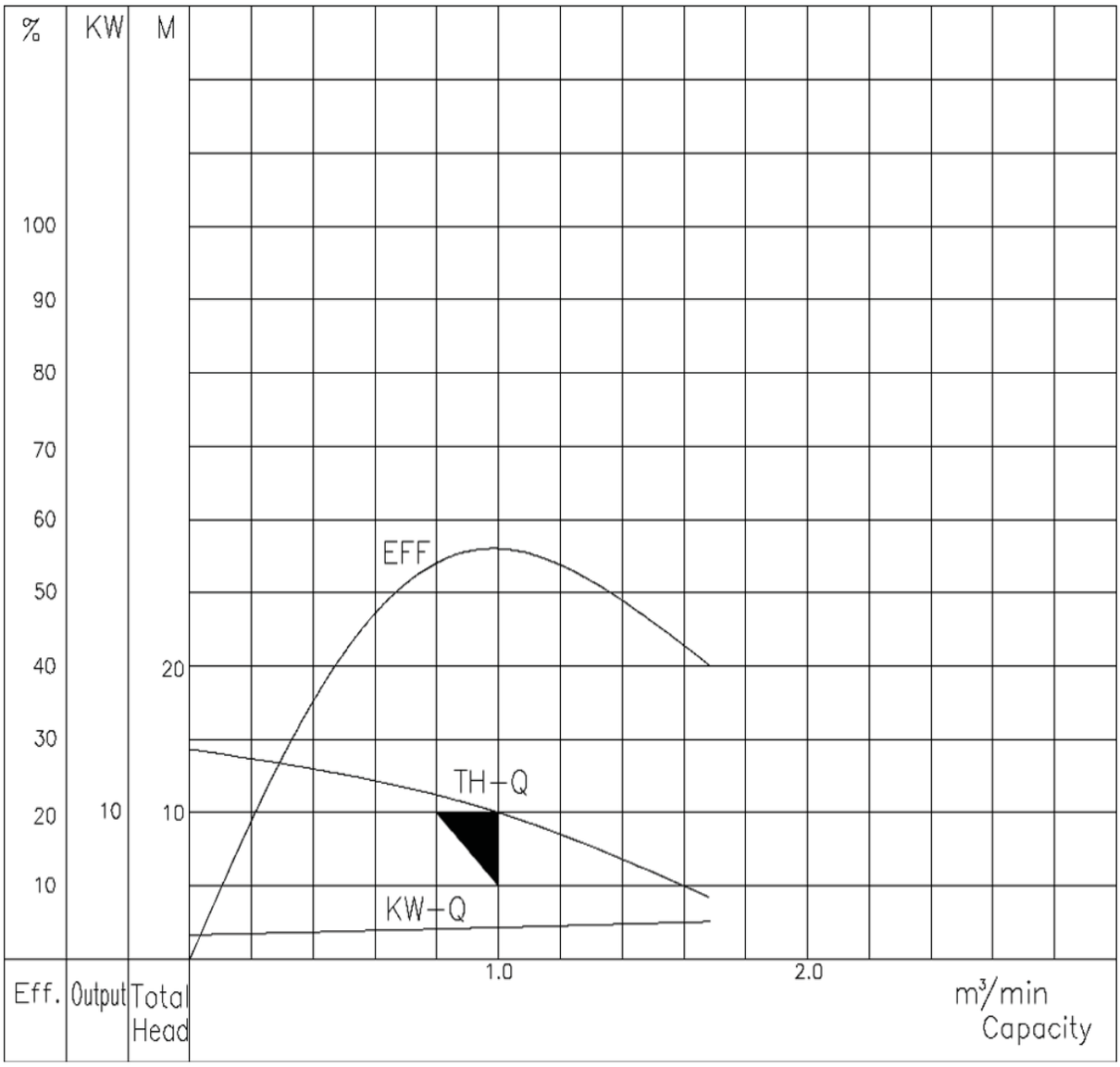
2.2 80-3.7-HSP

Design Data of Pump					
Discharge Diameter	80	mm	Efficiency	56.2	%
Shut-Off Head	14	m	Speed	1 450	rpm
Total Head	10	m	Bearing, Upper	6305	ZZ
Capacity	1.0	m^3/min.	Bearing, Lower	6309	ZZ
Ingress Protection	IP-68		Max. Solid Passage	25	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	3.7	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	6.4	Amp.	Phase	3	phase
Shaft Power	2.9	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 2.0sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Hose Coupling	
Mechanical Seal	H - 20	mm	Oil Seal	507212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	50	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	58	Kgs.	Dimension (WxDxH)	240 x 215 x 510mm	

80-3.7-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	3.7	kW	Model of Pump	80-3.7-HSP	
Voltage	525	Volts	Discharge Diameter	80	mm
Full Load Current	6.4	Amp.	Total Head	10	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.0	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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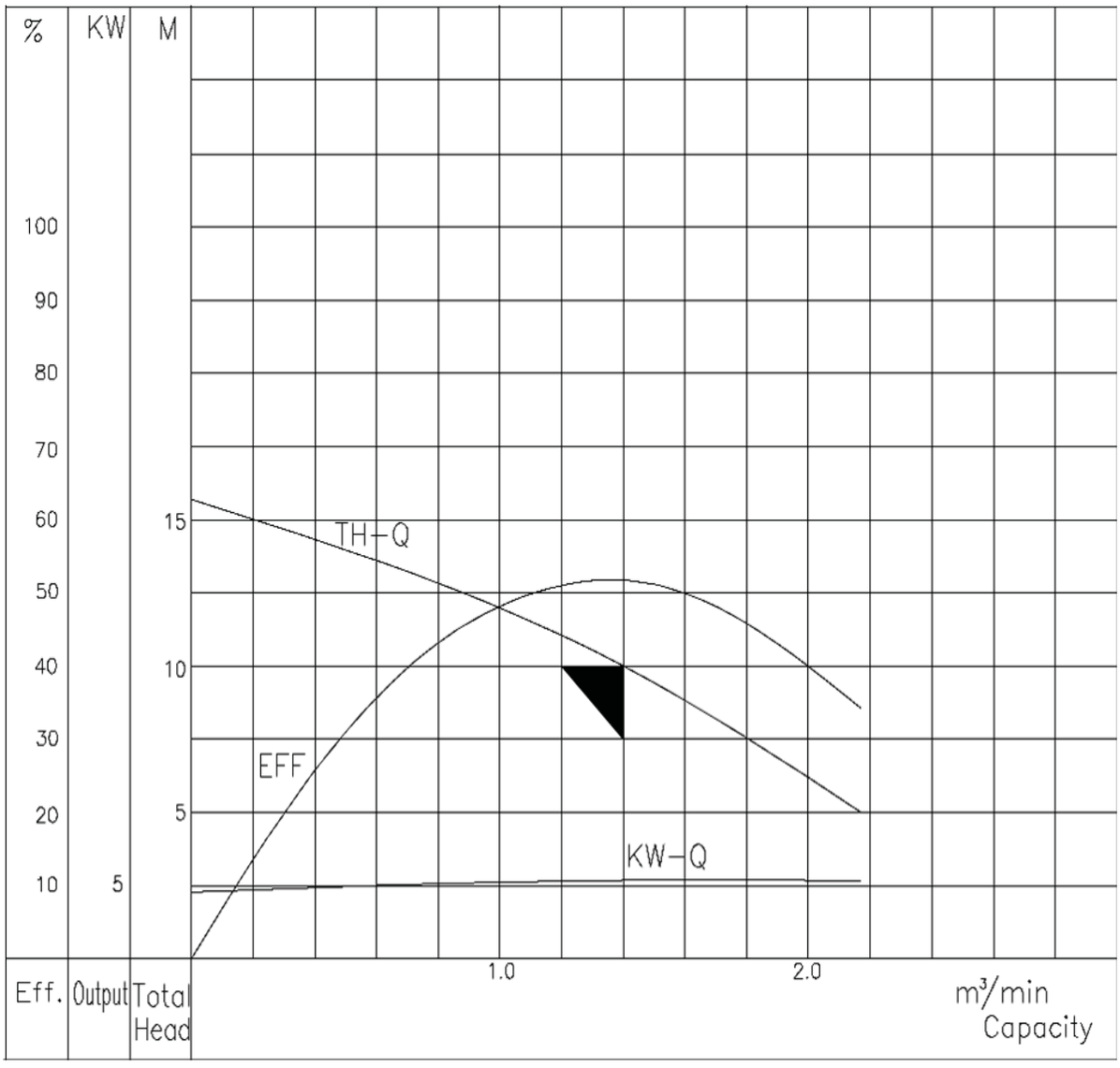
2.3 100-5.5-HSP

Design Data of Pump					
Discharge Diameter	100	mm	Efficiency	49.6	%
Shut-Off Head	16	m	Speed	1 450	rpm
Total Head	10	m	Bearing, Upper	6308	ZZ
Capacity	1.40	m^3/min.	Bearing, Lower	6310	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	25	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	5.5	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	9.4	Amp.	Phase	3	phase
Shaft Power	4.6	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 3.5sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 35	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	100	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	123	Kgs.	Dimension (WxDxH)	520 x 380 x 740mm	

100-5.5-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	5.5	kW	Model of Pump	100-5.5-HSP	
Voltage	525	Volts	Discharge Diameter	100	mm
Full Load Current	9.4	Amp.	Total Head	10	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.40	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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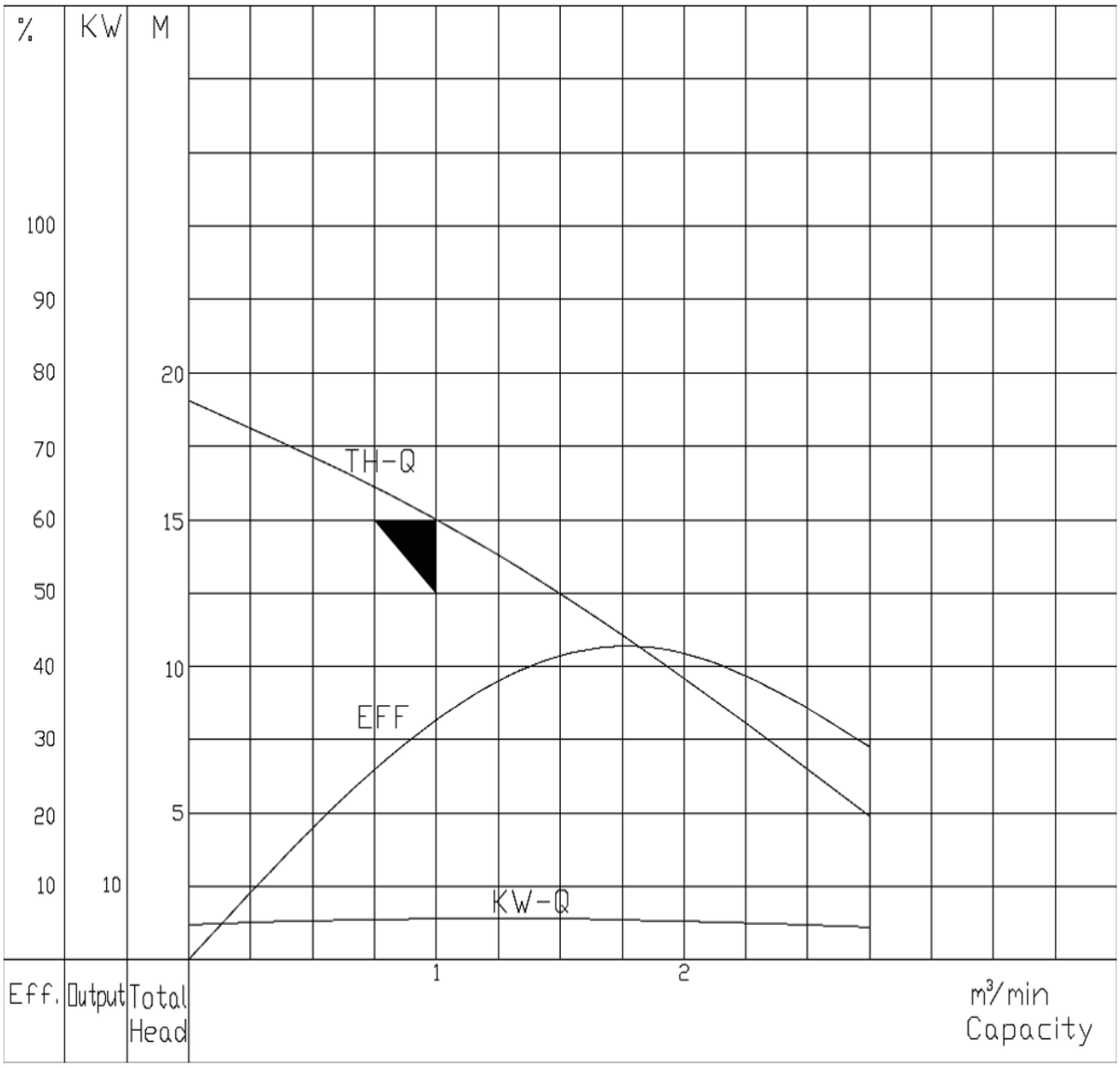
2.4 100-7.5-HSP

Design Data of Pump					
Discharge Diameter	100	mm	Efficiency	42.2	%
Shut-Off Head	18	m	Speed	1 450	rpm
Total Head	15	m	Bearing, Upper	6308	ZZ
Capacity	1.0	m^3/min.	Bearing, Lower	6310	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	25	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	7.5	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	12.5	Amp.	Phase	3	phase
Shaft Power	5.8	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 5.5sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 35	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	100	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	201	Kgs.	Dimension (WxDxH)	600 x 460 x 910mm	

100-7.5-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	7.5	kW	Model of Pump	100-7.5-HSP	
Voltage	525	Volts	Discharge Diameter	100	mm
Full Load Current	12.5	Amp.	Total Head	15	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.0	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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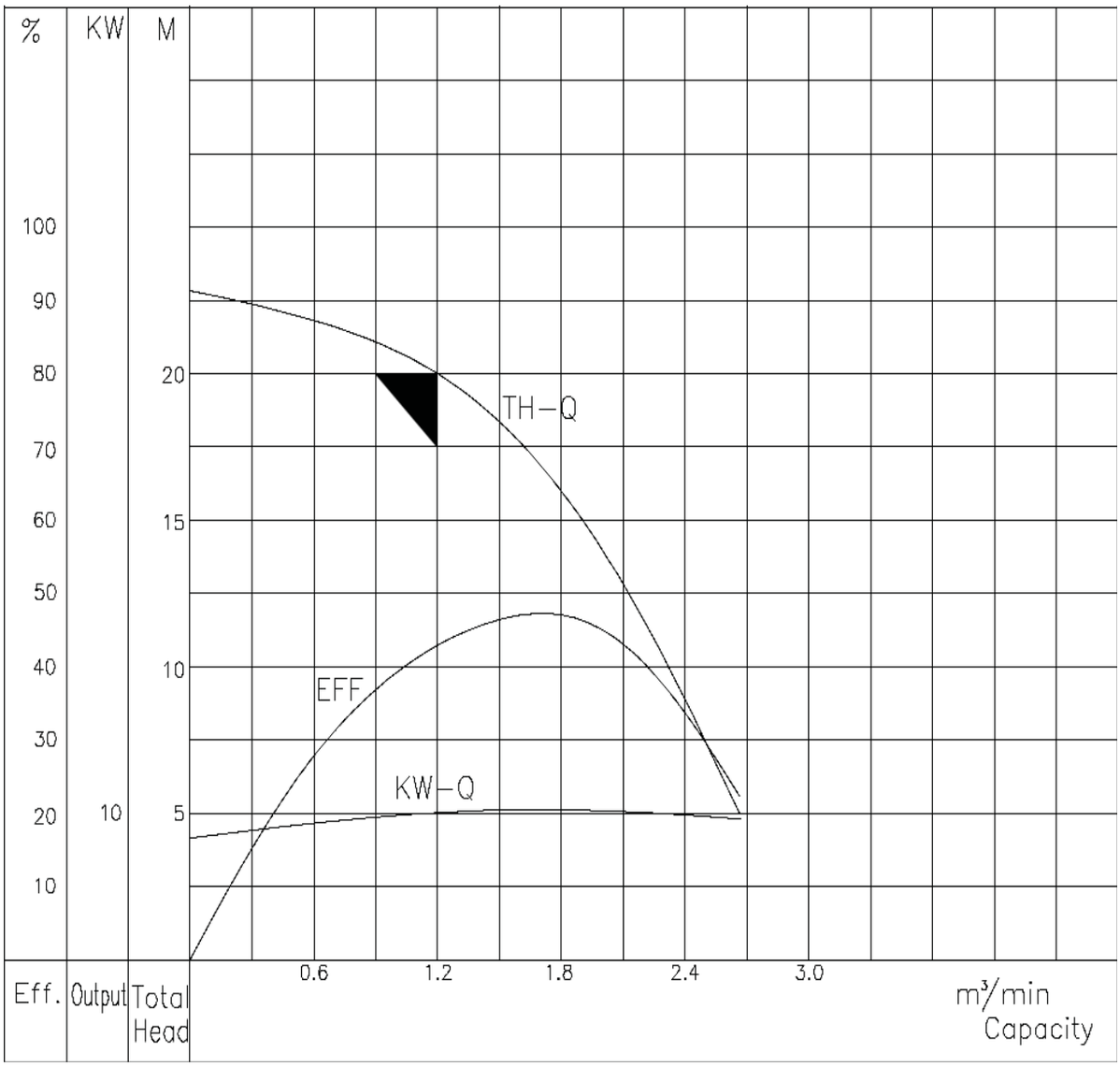
2.5 100-11-HSP

Design Data of Pump					
Discharge Diameter	100	mm	Efficiency	36.9	%
Shut-Off Head	23	m	Speed	1 450	rpm
Total Head	20	m	Bearing, Upper	6308	ZZ
Capacity	1.20	m^3/min.	Bearing, Lower	6310	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	30	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	11.0	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	17.9	Amp.	Phase	3	phase
Shaft Power	10.6	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	PNCT x 10sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 40	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	100	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	248	Kgs.	Dimension (WxDxH)	600 x 460 x 1100mm	

100-11-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	11.0	kW	Model of Pump	100-11-HSP	
Voltage	525	Volts	Discharge Diameter	100	mm
Full Load Current	17.9	Amp.	Total Head	20	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.20	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



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1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

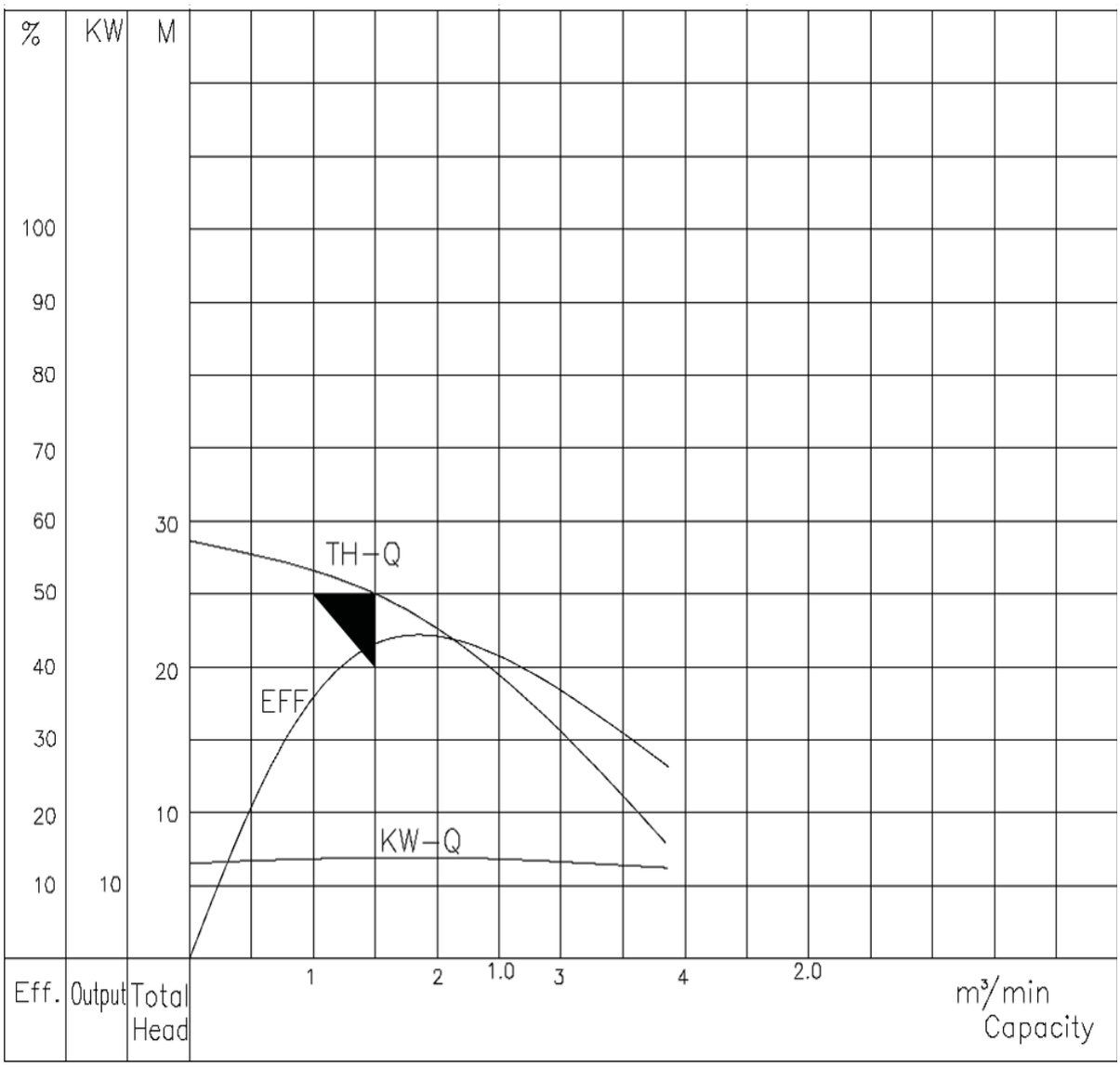
The specifications & curves are only for guidance purpose and subject to change without prior notice.

2.6 100-15-HSP

Design Data of Pump					
Discharge Diameter	100	mm	Efficiency	43.7	%
Shut-Off Head	28	m	Speed	1 450	rpm
Total Head	25	m	Bearing, Upper	6308	ZZ
Capacity	1.50	m^3/min.	Bearing, Lower	6310	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	30	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	15.0	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	24.0	Amp.	Phase	3	phase
Shaft Power	14.0	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	PNCT x 10sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 40	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	100	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	264	Kgs.	Dimension (WxDxH)	600 x 460 x 1100mm	

Performance Curve

MOTOR			PUMP		
Rated Output	15.0	kW	Model of Pump	100-15-HSP	
Voltage	525	Volts	Discharge Diameter	100	mm
Full Load Current	24.0	Amp.	Total Head	25	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.50	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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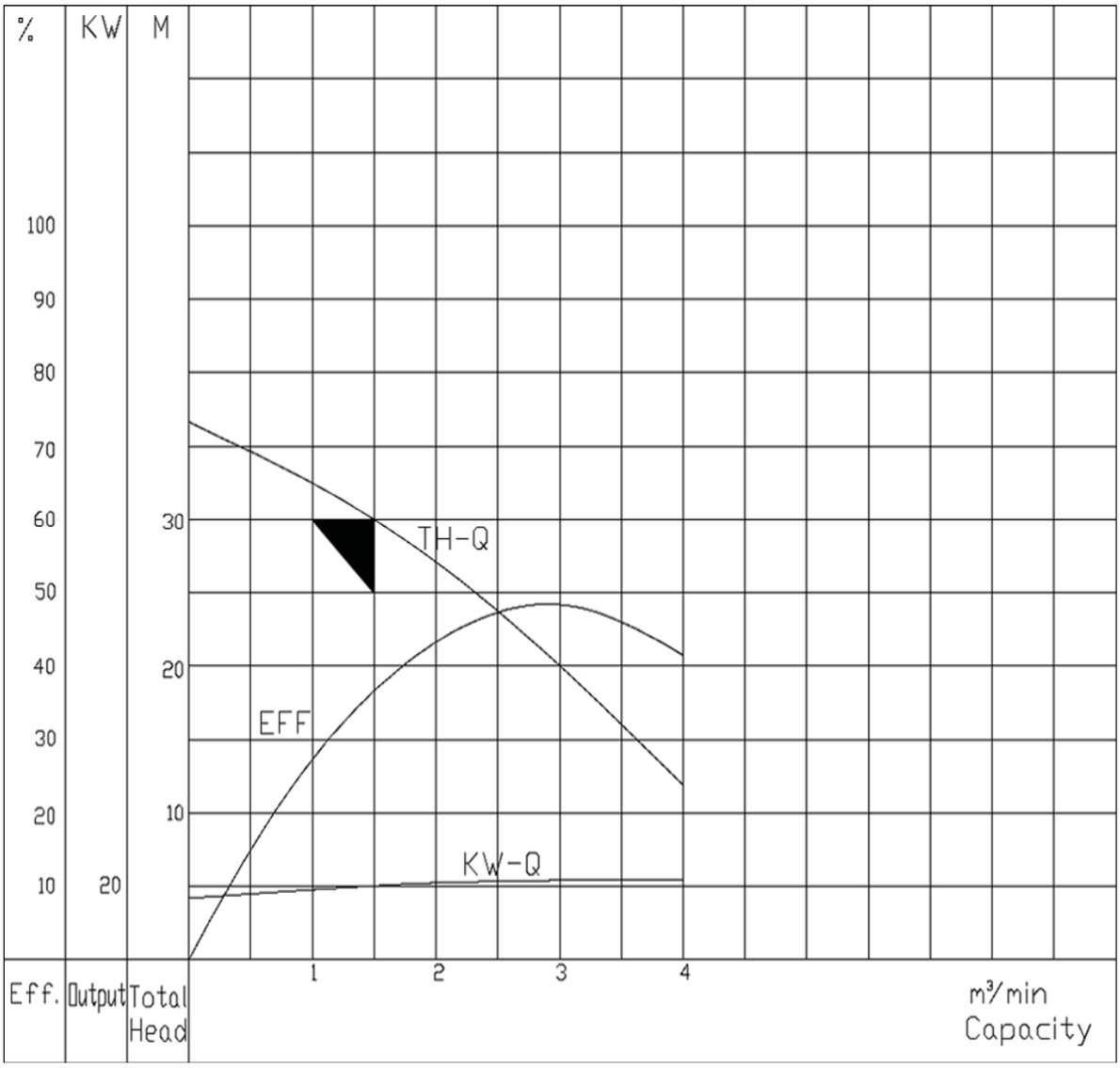
2.7 100-22-HSP

Design Data of Pump					
Discharge Diameter	100	mm	Efficiency	37.0	%
Shut-Off Head	37	m	Speed	1 450	rpm
Total Head	30	m	Bearing, Upper	6309	ZZ
Capacity	1.50	m^3/min.	Bearing, Lower	6314	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	30	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	22.0	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	34.7	Amp.	Phase	3	phase
Shaft Power	19.8	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 10sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 45	mm	Oil Seal	507212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	100	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	410	Kgs.	Dimension (WxDxH)	700 x 520 x 1250mm	

100-22-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	22.0	kW	Model of Pump	100-22-HSP	
Voltage	525	Volts	Discharge Diameter	100	mm
Full Load Current	34.7	Amp.	Total Head	30	m
Number of Poles	4	Poles	Capacity (Flow Rate)	1.50	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

The specifications & curves are only for guidance purpose and subject to change without prior notice.

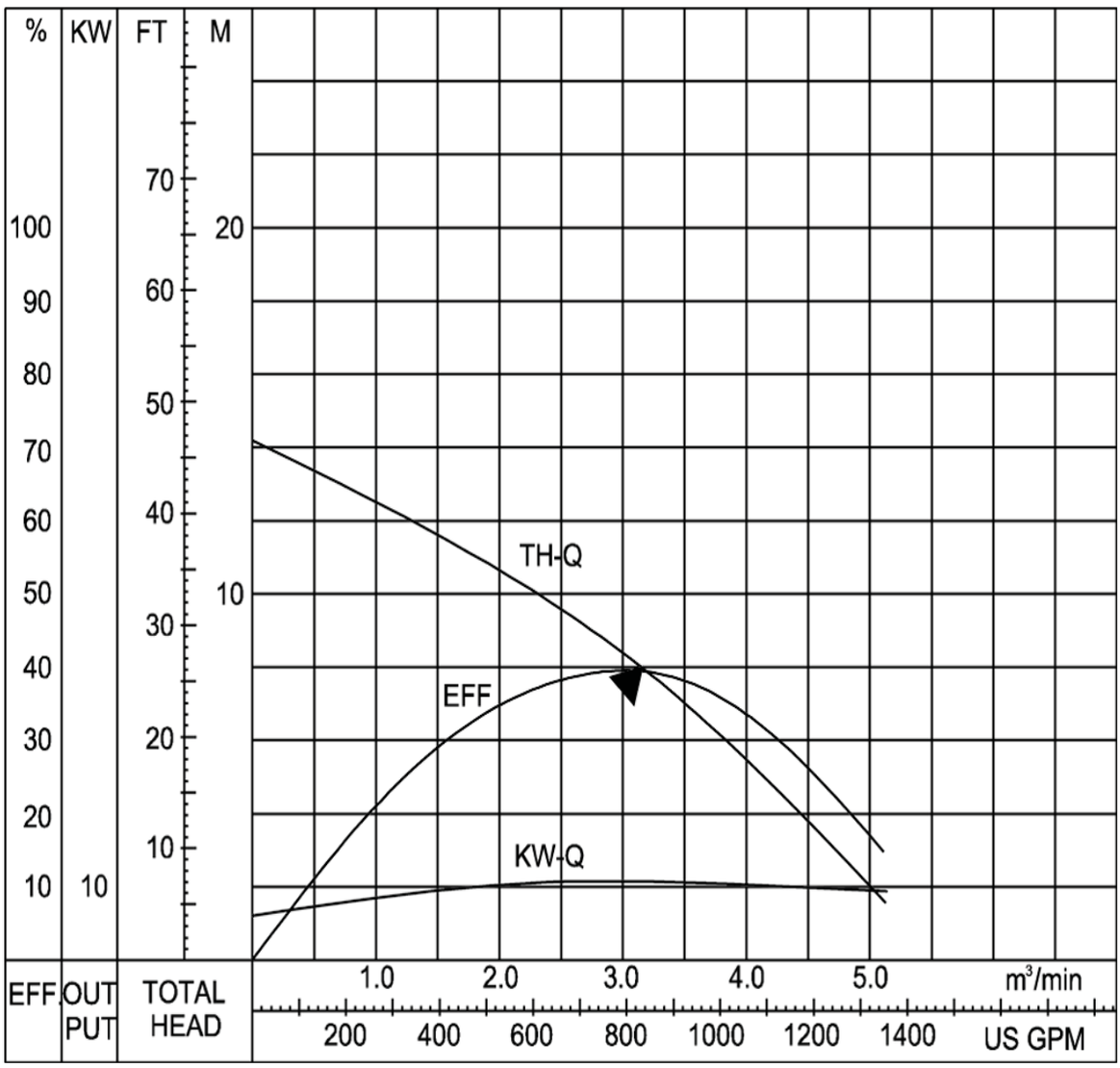
2.8 150-11-6HSP

Design Data of Pump					
Discharge Diameter	150	mm	Efficiency	40.9	%
Shut-Off Head	16	m	Speed	950	rpm
Total Head	8	m	Bearing, Upper	6309	ZZ
Capacity	3.20	m^3/min.	Bearing, Lower	6312	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	30	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	11.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	19.1	Amp.	Phase	3	phase
Shaft Power	10.2	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 8sq. x 4C or 3CT x 8sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	℃	Viscosity		
Painting Thickness	140 ~ 180 μm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 40	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	150	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	350	Kgs.	Dimension (WxDxH)	740 x 560 x 1300mm	

150-11-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	11.0	kW	Model of Pump	150-11-6HSP	
Voltage	525	Volts	Discharge Diameter	150	mm
Full Load Current	19.1	Amp.	Total Head	8	m
Number of Poles	6	Poles	Capacity (Flow Rate)	3.20	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

The specifications & curves are only for guidance purpose and subject to change without prior notice.

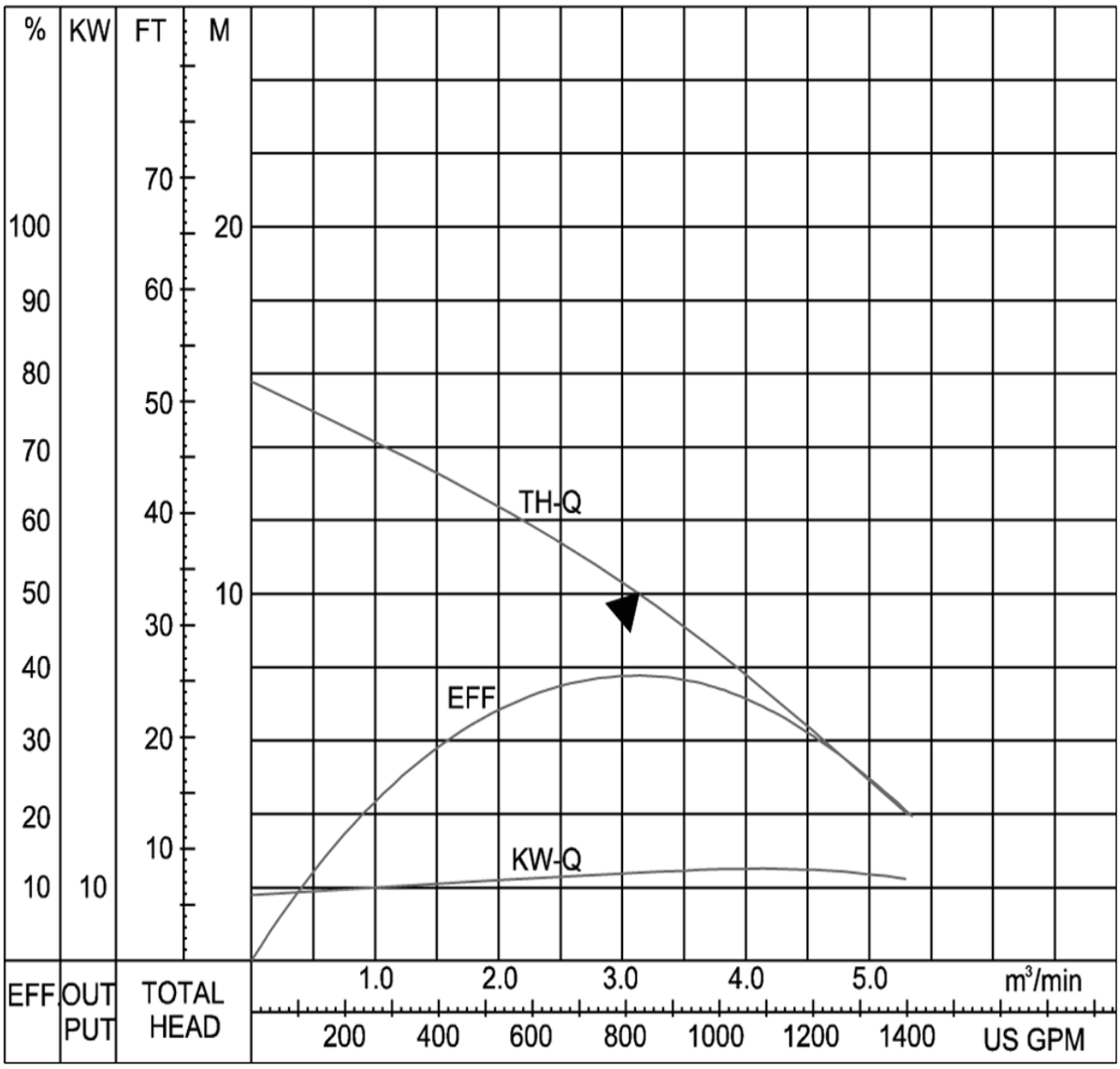
2.9 150-15-6HSP

Design Data of Pump					
Discharge Diameter	150	mm	Efficiency	38.4	%
Shut-Off Head	18	m	Speed	950	rpm
Total Head	10	m	Bearing, Upper	6309	ZZ
Capacity	3.20	m^3/min.	Bearing, Lower	6312	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	15.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	25.7	Amp.	Phase	3	phase
Shaft Power	13.6	kW	Insulation	F	Class
Starting Method	Direct on Line		Power Cable	3CT x 8sq. x 4C or 3CT x 8sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 μm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 40	mm	Oil Seal	608212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	150	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	360	Kgs.	Dimension (WxDxH)	740 x 560 x 1300mm	

150-15-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	15.0	kW	Model of Pump	150-15-6HSP	
Voltage	525	Volts	Discharge Diameter	150	mm
Full Load Current	25.7	Amp.	Total Head	10	m
Number of Poles	6	Poles	Capacity (Flow Rate)	3.20	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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2.10 150-22-6HSP

Design Data of Pump					
Discharge Diameter	150	mm	Efficiency	41.0	%
Shut-Off Head	20	m	Speed	950	rpm
Total Head	15	m	Bearing, Upper	6309	ZZ
Capacity	3.20	m^3/min.	Bearing, Lower	6314	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	22.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	36.7	Amp.	Phase	3	phase
Shaft Power	19.1	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 10sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 45	mm	Oil Seal	507212	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	150	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	640	Kgs.	Dimension (WxDxH)	1150 x 720 x 1440mm	

150-22-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	22.0	kW	Model of Pump	150-22-6HSP	
Voltage	525	Volts	Discharge Diameter	150	mm
Full Load Current	36.7	Amp.	Total Head	15	m
Number of Poles	6	Poles	Capacity (Flow Rate)	3.20	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm

1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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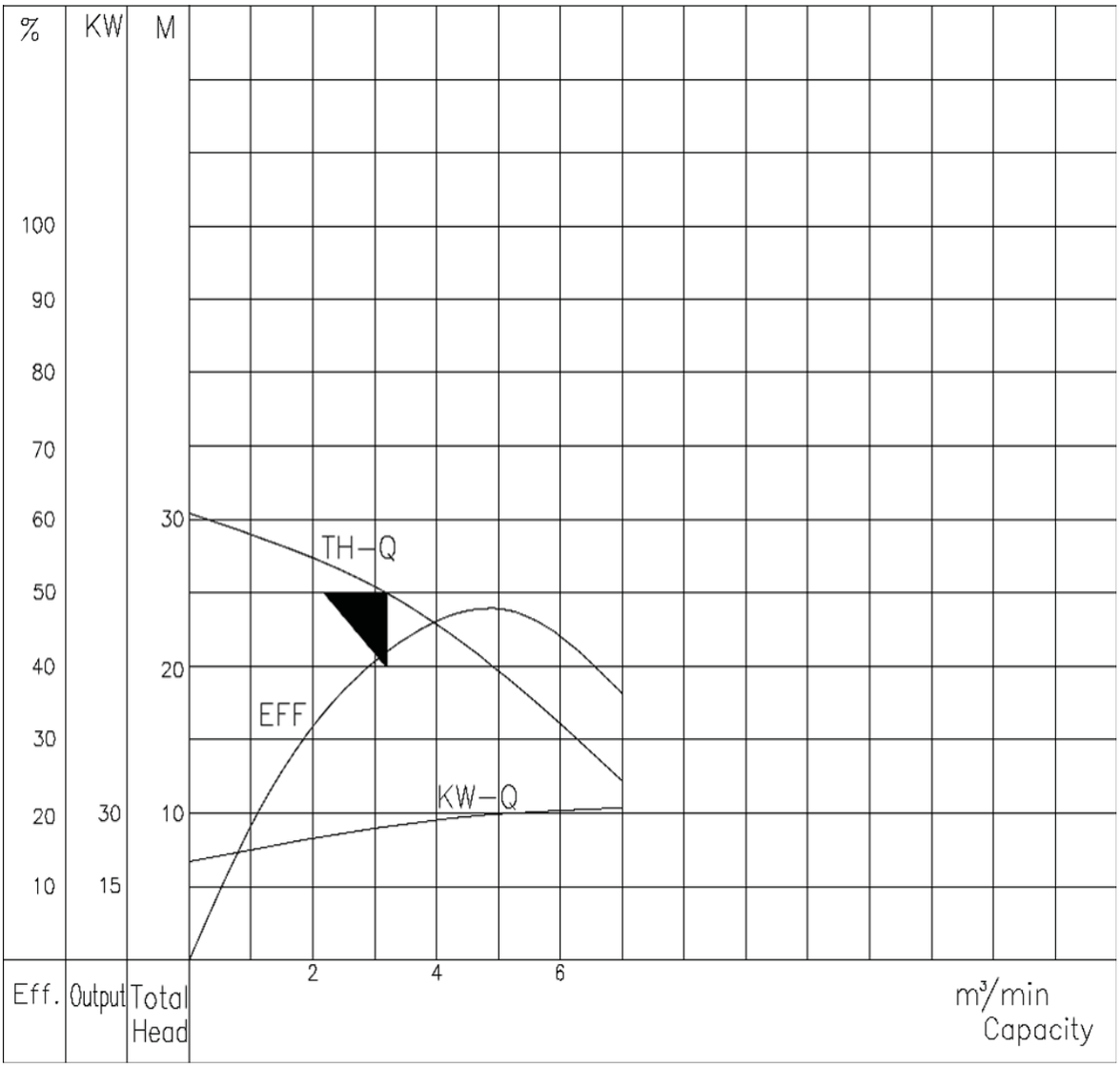
2.11 150-37-HSP

Design Data of Pump					
Discharge Diameter	150	mm	Efficiency	42.1	%
Shut-Off Head	30	m	Speed	1 450	rpm
Total Head	25	m	Bearing, Upper	6312	ZZ
Capacity	3.20	m^3/min.	Bearing, Lower	6315	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	37.0	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	57.0	Amp.	Phase	3	phase
Shaft Power	31.0	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 16sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 60	mm	Oil Seal	709513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	150	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	822	Kgs.	Dimension (WxDxH)	1150 x 720 x 1500mm	

150-37-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	37.0	kW	Model of Pump	150-37-HSP	
Voltage	525	Volts	Discharge Diameter	150	mm
Full Load Current	57.0	Amp.	Total Head	25	m
Number of Poles	4	Poles	Capacity (Flow Rate)	3.20	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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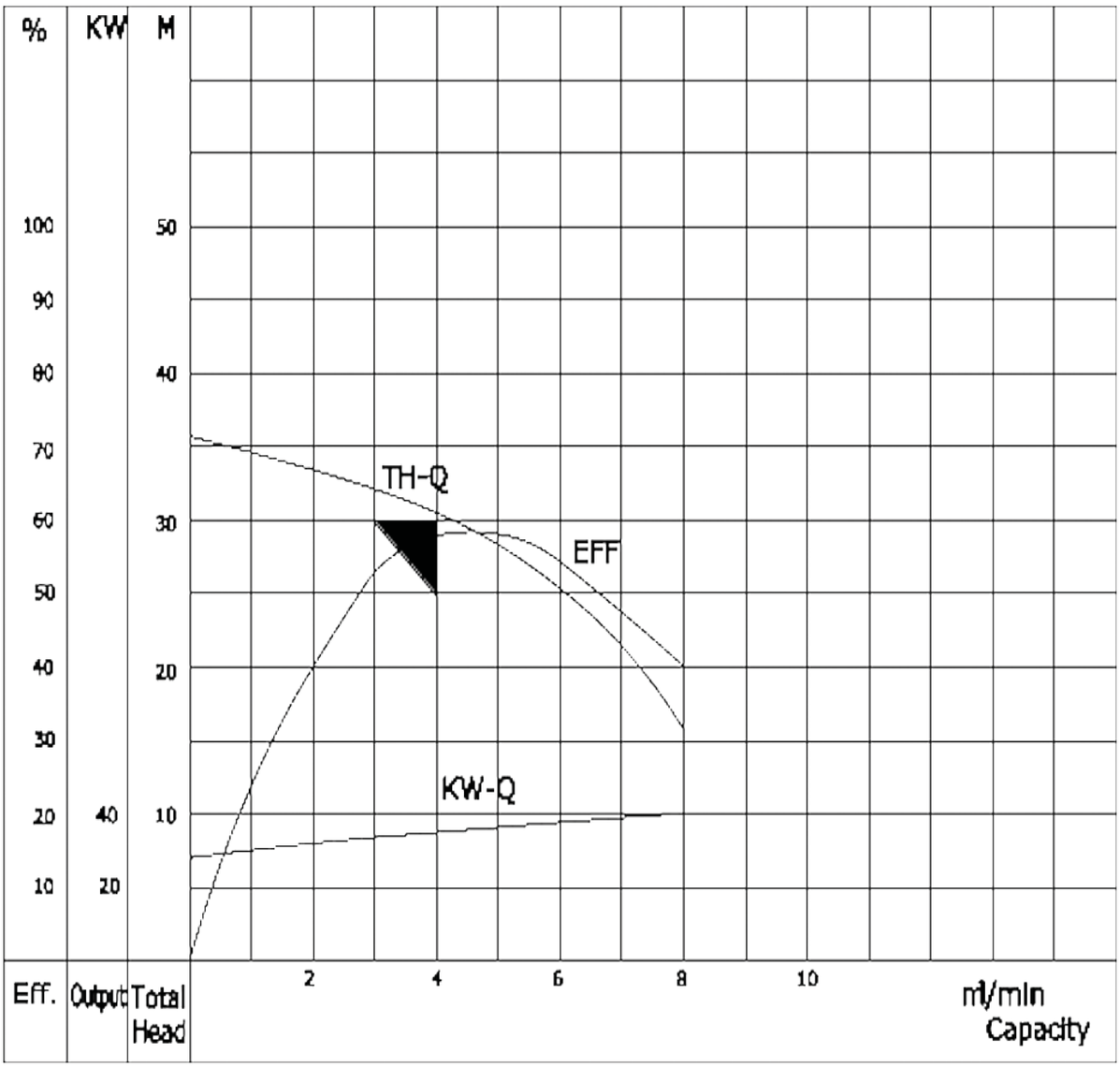
2.12 150-45-HSP

Design Data of Pump					
Discharge Diameter	150	mm	Efficiency	58.0	%
Shut-Off Head	36	m	Speed	1 450	rpm
Total Head	30	m	Bearing, Upper	6312	ZZ
Capacity	4.0	m^3/min.	Bearing, Lower	6315	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	45.0	kW	Voltage	525	Volts
Number of Poles	4	Poles	Frequency	50	Hz
Full load Current	67.3	Amp.	Phase	3	phase
Shaft Power	33.7	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 16sq. x 4C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 60	mm	Oil Seal	709513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	150	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	832	Kgs.	Dimension (WxDxH)	1150 x 720 x 1500mm	

150-45-HSP

Performance Curve

MOTOR			PUMP		
Rated Output	45.0	kW	Model of Pump	150-45-HSP	
Voltage	525	Volts	Discharge Diameter	150	mm
Full Load Current	67.3	Amp.	Total Head	30	m
Number of Poles	4	Poles	Capacity (Flow Rate)	4.0	m^3/min.
Frequency	50	Hz	Motor Speed	1 450	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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2.13 200-37-6HSP

Design Data of Pump					
Discharge Diameter	200	mm	Efficiency	40.0	%
Shut-Off Head	30	m	Speed	950	rpm
Total Head	15	m	Bearing, Upper	6312	ZZ
Capacity	6.0	m^3/min.	Bearing, Lower	6315	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	37.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	59.9	Amp.	Phase	3	phase
Shaft Power	36.7	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 16sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 60	mm	Oil Seal	709513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	200	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	840	Kgs.	Dimension (WxDxH)	1150 x 720 x 1500mm	

200-37-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	37.0	kW	Model of Pump	200-37-6HSP	
Voltage	525	Volts	Discharge Diameter	200	mm
Full Load Current	59.9	Amp.	Total Head	15	m
Number of Poles	6	Poles	Capacity (Flow Rate)	6.0	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm

1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

The specifications & curves are only for guidance purpose and subject to change without prior notice.

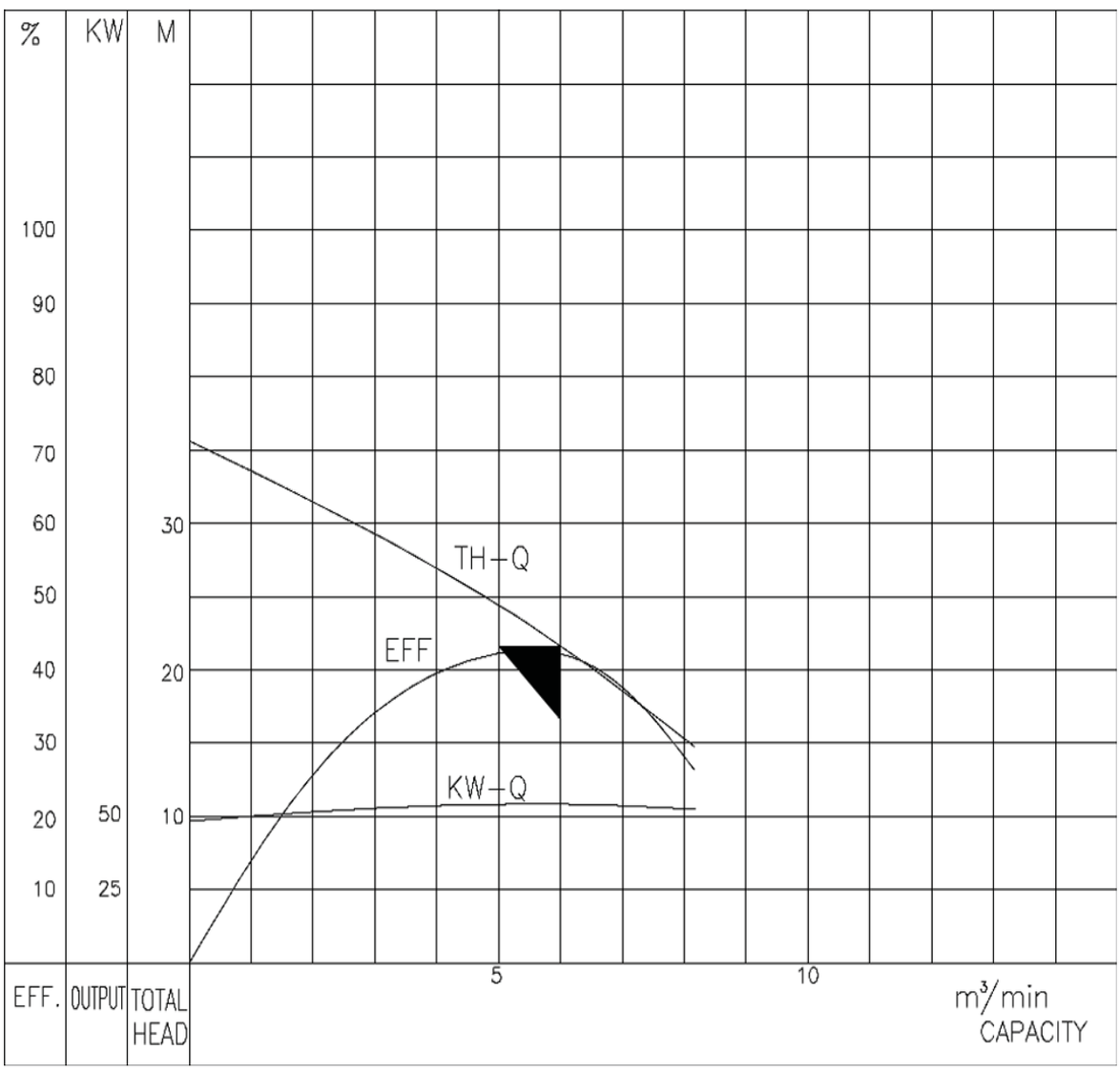
2.14 200-55-6HSP

Design Data of Pump					
Discharge Diameter	200	mm	Efficiency	42.2	%
Shut-Off Head	32	m	Speed	950	rpm
Total Head	22	m	Bearing, Upper	6314	ZZ
Capacity	6.0	m^3/min.	Bearing, Lower	6318	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	60	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	55.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	81.6	Amp.	Phase	3	phase
Shaft Power	51.0	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 25sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 μm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 70	mm	Oil Seal	10012513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	200	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	920	Kgs.	Dimension (WxDxH)	1150 x 790 x 1640mm	

200-55-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	55.0	kW	Model of Pump	200-55-6HSP	
Voltage	525	Volts	Discharge Diameter	200	mm
Full Load Current	81.6	Amp.	Total Head	22	m
Number of Poles	6	Poles	Capacity (Flow Rate)	6.0	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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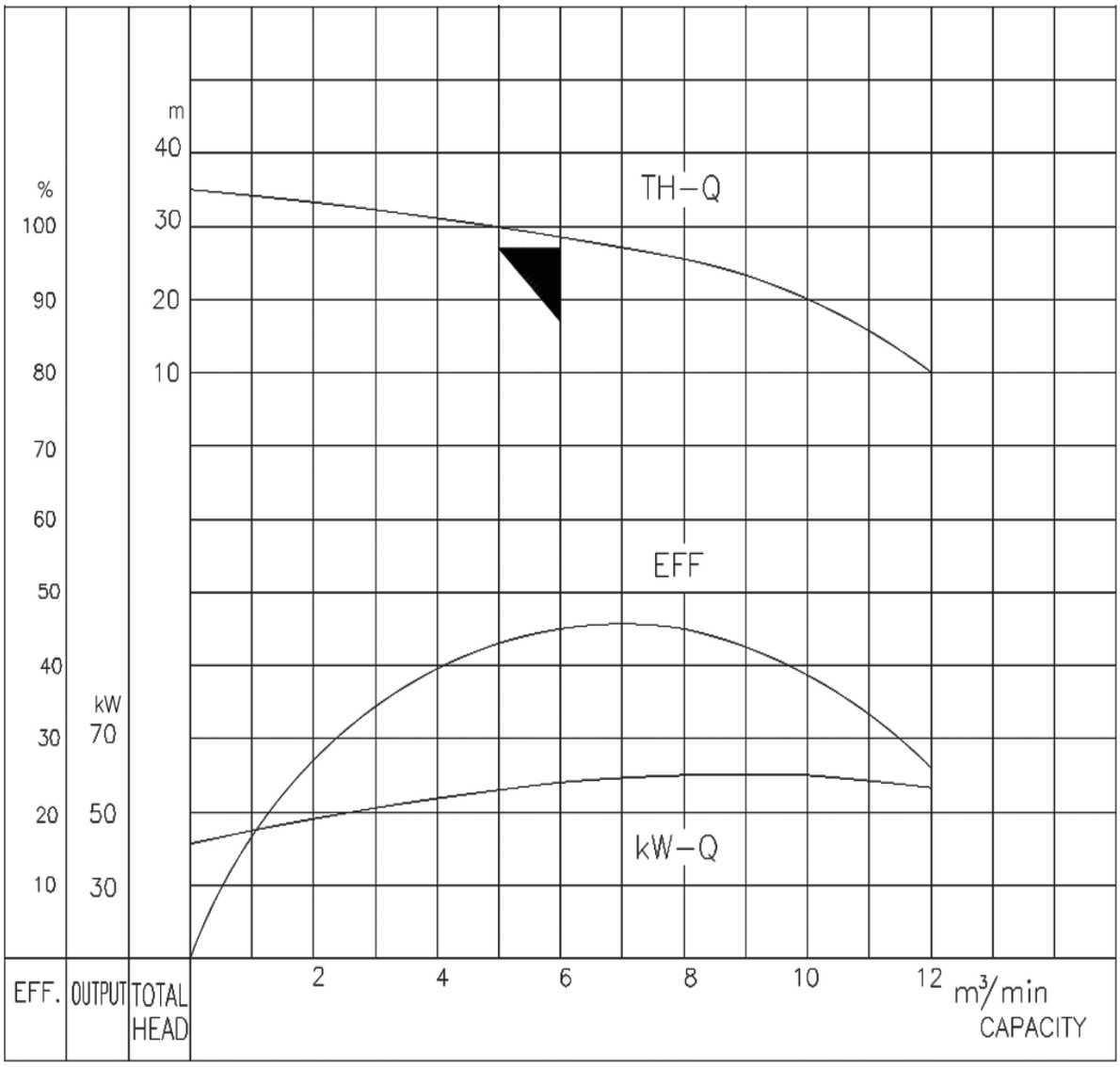
2.15 200-75-6HSP

Design Data of Pump					
Discharge Diameter	200	mm	Efficiency	45.0	%
Shut-Off Head	35	m	Speed	950	rpm
Total Head	27	m	Bearing, Upper	6314	ZZ
Capacity	6.0	m^3/min.	Bearing, Lower	7318	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	45	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	75.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	110.2	Amp.	Phase	3	phase
Shaft Power	58.7	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 25sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 70	mm	Oil S eal	10012513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	200	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	1 650	Kgs.	Dimension (WxDxH)	1150 x 790 x 1640mm	

200-75-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	75.0	kW	Model of Pump	200-75-6HSP	
Voltage	525	Volts	Discharge Diameter	200	mm
Full Load Current	110.2	Amp.	Total Head	27	m
Number of Poles	6	Poles	Capacity (Flow Rate)	6.0	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

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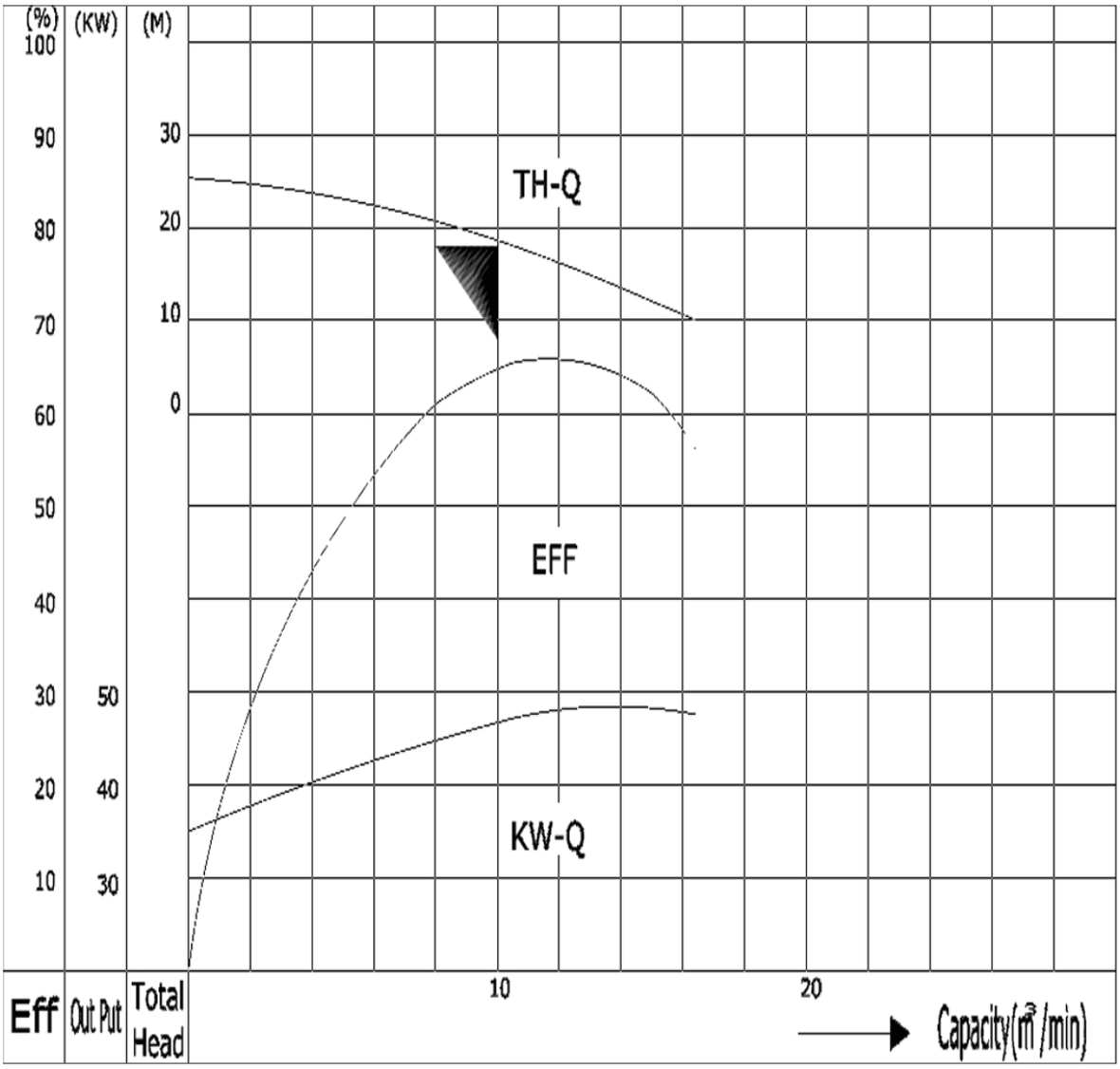
2.16 250-75-6HSP

Design Data of Pump					
Discharge Diameter	250	mm	Efficiency	65.4	%
Shut-Off Head	25	m	Speed	950	rpm
Total Head	18	m	Bearing, Upper	6314	ZZ
Capacity	10.0	m^3/min.	Bearing, Lower	7318	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	70	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	75.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	110.2	Amp.	Phase	3	phase
Shaft Power	58.7	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 25sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 µm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 70	mm	Oil S eal	10012513	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	250	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	1 750	Kgs.	Dimension (WxDxH)	1600 x 1010 x 1900mm	

250-75-6HSP

Performance Curve

MOTOR			PUMP		
Rated Output	75.0	kW	Model of Pump	250-75-6HSP	
Voltage	525	Volts	Discharge Diameter	250	mm
Full Load Current	110.2	Amp.	Total Head	18	m
Number of Poles	6	Poles	Capacity (Flow Rate)	10.0	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

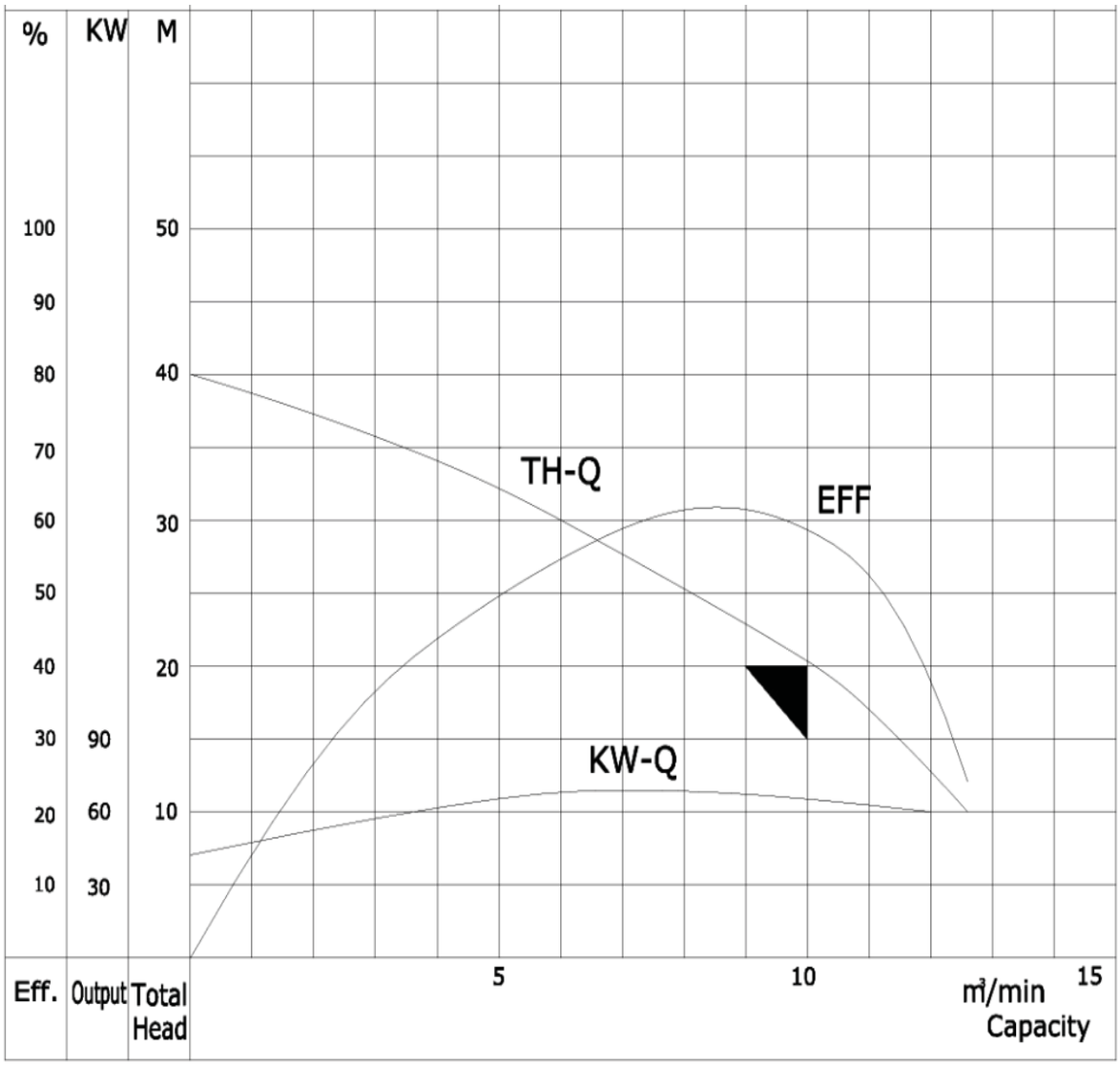
The specifications & curves are only for guidance purpose and subject to change without prior notice.

2.17 300-75-6HSP

Design Data of Pump					
Discharge Diameter	300	mm	Efficiency	60.0	%
Shut-Off Head	40	m	Speed	950	rpm
Total Head	20	m	Bearing, Upper	6314	ZZ
Capacity	10.0	m^3/min.	Bearing, Lower	7318	ZZ x 2 EA
Ingress Protection	IP-68		Max. Solid Passage	70	mm*
Design Data of Motor				* Spherical dia.	
Rated Output	75.0	kW	Voltage	525	Volts
Number of Poles	6	Poles	Frequency	50	Hz
Full load Current	110.2	Amp.	Phase	3	phase
Shaft Power	62.5	kW	Insulation	F	Class
Starting Method	Star-Delta		Power Cable	PNCT(R) x 25sq. x 7C	
Service Condition					
Nature of Fluids	Water + Solids		Specific Gravity	1 ~	
Service Temp.	Max. 40	°C	Viscosity		
Painting Thickness	140 ~ 180 μm		Lubricating Oil	ISO-VG-46	
Color of Painting	D-80140				
Service Condition					
Impeller	Open	Type	Discharge Outlet	Flange Type	
Mechanical Seal	H - 70	mm	Oil S eal	100x125x13	
Construction Materials - please refer to our catalog or web site.					
Standard Supplies (per set) ** Only for HB/HBS/HSV/HC/HCT-series as an option.					
Power Cable	10.0	m	Discharge Bend**	N/A	
Lifting Chain**	N/A		Guide Support/Plate**	N/A	
Discharge, Hose Coupling	300	mm	Guide Rail Pipe**	N/A	
Net weight, approx.	1 300	Kgs.	Dimension (WxDxH)	1600 x 1010 x 1900mm	

Performance Curve

MOTOR			PUMP		
Rated Output	75.0	kW	Model of Pump	300-75-6HSP	
Voltage	525	Volts	Discharge Diameter	300	mm
Full Load Current	110.2	Amp.	Total Head	20	m
Number of Poles	6	Poles	Capacity (Flow Rate)	10.0	m^3/min.
Frequency	50	Hz	Motor Speed	950	rpm



1 m = 3.28083 ft. 1 ft. = 0.3048 m. 1 m^3/min. = 264.1721 USGPM (1,000 USGPM = 3.785412 m^3/min.)

1 kW = 1.341022 HP 1 HP = 0.7456999 kW 1 m^3/min. = 219.9692 IGPM (1,000 IGPM = 4.546092 m^3/min.)

The specifications & curves are only for guidance purpose and subject to change without prior notice.

SOLOPUMP **SUBMERSIBLE PUMPS**

SPECIFICATION SUMMARY & INDEX

Type	Construction		Discharge	Model	Output	Head	Flow	Flow	Flow	Weight	Page
	Motor frame	Wet end	(mm)	no	(kW)	(m)	Q(L/sec)	Q(L/min)	Q(m^3/min)	(kg)	no
Clean water submersible	Stainless steel	Cast iron	25	XQS4-15/2-0.55I	0.55	27	1.3	75	0.1	18.5	**133**
Clean water submersible	Stainless steel	Cast iron	50	XQS6-28/2-1.1I	1.1	30	4.2	250	0.3	20.5	**134**
Clean water submersible	Stainless steel	Cast iron	50	XQS6-39/3-1.5I	1.5	42	4	240	0.2	27.5	**134**
Clean water submersible	Stainless steel	Cast iron - Chr Plt	50	XQS22.8-12/0.75I	0.75	12	6.3	380	0.4	18.5	**135**
Sewage submersible	Stainless steel	Cast iron	50	XSP12-8.5/0.45I	0.45	8.5	3.3	200	0.2	18	**136**
Sewage submersible	Stainless steel	Cast iron	50	XSP18-12/0.75I	0.75	12	5	300	0.3	22	**136**
Sewage submersible	Stainless steel	Cast iron	50	XSP20-9/1.1I	1.1	9	5.6	333	0.3	23.5	**137**
Sewage submersible	Stainless steel	Cast iron	40	XSP16.2-22/1.5I	1.5	22	4.5	270	0.3	27	**138**
Sewage submersible	Stainless steel	Cast iron	75	XSP42-17/2.2I	2.2	17	11.7	700	0.7	35	**138**
Sewage submersible	Complete stainless steel		25	XSP9-7.5/0.25S	0.25	7.5	2.5	150	0.2	22	**139**
Sewage submersible	Complete stainless steel		50	XSP18-12/0.75S	0.75	12	5	300	0.3	22	**140**
Sewage submersible	Complete stainless steel		40	XSP16.2-22/1.5S	1.5	22	4.5	270	0.3	22	**140**
Sewage submersible with cutting blades	Stainless steel	Cast iron	50	XSP14-7/1.1ID	1.1	7	3.9	233	0.2	22.5	**141**
Sewage submersible with cutting blades	Stainless steel	Cast iron	50	XSP18-12/1.3ID	1.3	12	5	300	0.3	22.5	**142**
Sewage submersible with cutting blades	Stainless steel	Cast iron	75	XSP26.4-10/1.8ID	1.8	10	7.3	440	0.4	32	**142**
Sewage submersible with cutting blades	Complete cast iron		80	80QW57-8-3.0	3	8	15.8	950	0.9		**143**
Sewage submersible with cutting blades	Complete cast iron		80	80QW55-10-4.0	4	10	15.2	916	0.9		**143**
Sewage submersible with cutting blades	Complete cast iron		100	100QW62-12-5.5	5.5	12	17.2	1033	1.0		**143**
Sewage submersible with cutting blades	Complete cast iron		100	100QW70-15-7.5	7.5	15	19.4	1166	1.1		**143**
Garden water submersible	Complete stainless steel		25	XKS-550SW	0.55	6	2.8	166	0.2		**144**
Garden water submersible	Complete stainless steel		32	XKS-1000SW	1.0	8	4	241	0.2		**144**

XQS4-15/2-0.55I

XQS6-28/2-1.1I
XQS6-39/3-1.5I

XQS22.8-12/0.75I

XSP12-8.5/0.45I
XSP18-12/0.75I

XSP20-9/1.1I

XSP16.2-22/1.5I
XSP42-17/2.2I

XSP9-7.5-0.25S

XSP18-12/0.75S
XSP16.2-22/1.5S

XSP14-7/1.1ID

XSP18-12/1.3ID
XSP26.4-10/1.8ID

80QW57-8-3.0
80QW55-10-4.0
100QW62-12-5.5
100QW70-15-7.5

XKS-550SW
XKS-1000SW

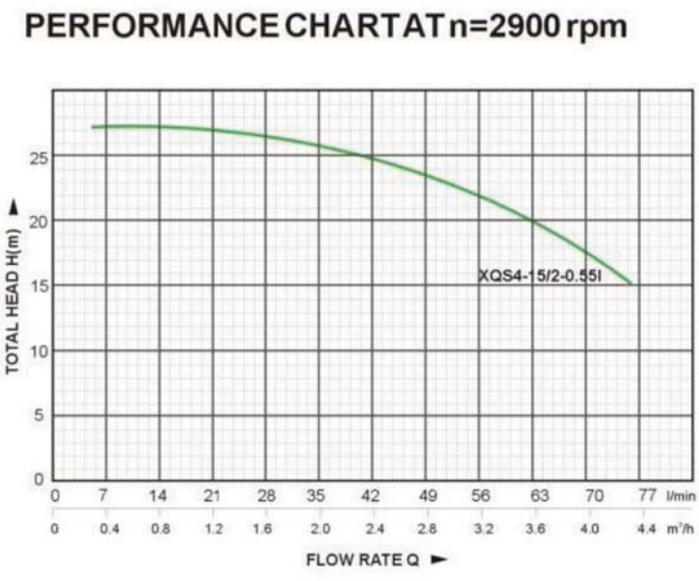
XQS4-15/2-0.55I

Applications & Features

Single-phase and three-phase clean water submersible pumps are advanced and ideal drainage helpers. It is suitable for industrial, mining, construction and farming applications. Small, lightweight and easy to use.A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	6.5~8.5
Maximum solid size	2mm



CLOSED MULTI CHANNEL IMPELLER

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Clean water submersible	Stainless steel	Cast iron	25	XQS4-15/2-0.55I	0.55	220V and 380V	27	2	1.3	75	0.1	18.5	27.0 x 23.5 x 50.0

XQS6-28/2-1.1I ■ XQS6-39/3-1.5I

Applications & Features

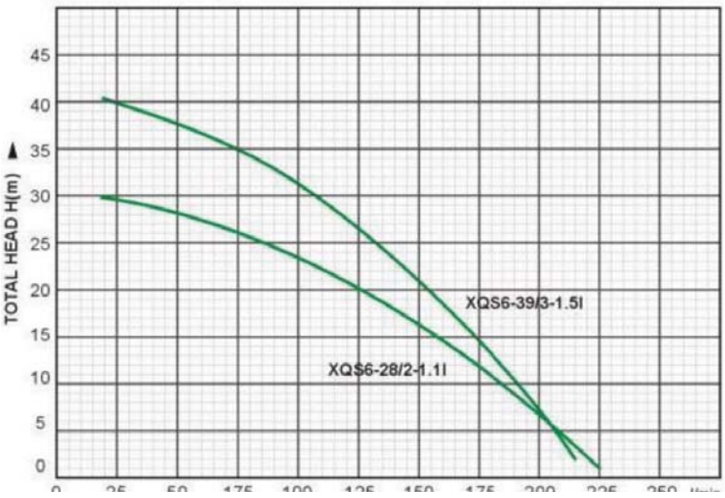
Single-phase and three-phase clean water submersible pumps are advanced and ideal drainage helpers. It is suitable for industrial, mining, construction and farming applications. It is also widely used a water supply pump in high buildings and construction as well as in the cleaning industry. Three-phase pumps offer more stability.

Small, lightweight and easy to use.A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	6.5~8.5
Maximum solid size	2mm

PERFORMANCE CHART AT n=2900 rpm



CLOSED MULTI CHANNEL IMPELLER

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Clean water submersible	Stainless steel	Cast iron	50	XQS6-28/2-1.1I	1.1	220V and 380V	30	2	4.2	250	0.3	20.5	27.0 x 22.0 x 53.0
Clean water submersible	Stainless steel	Cast iron	50	XQS6-39/3-1.5I	1.5	220V and 380V	42	2	4.0	240	0.2	27.5	62.0 x 28.0 x 20.0

XQS22.8-12/0.75I

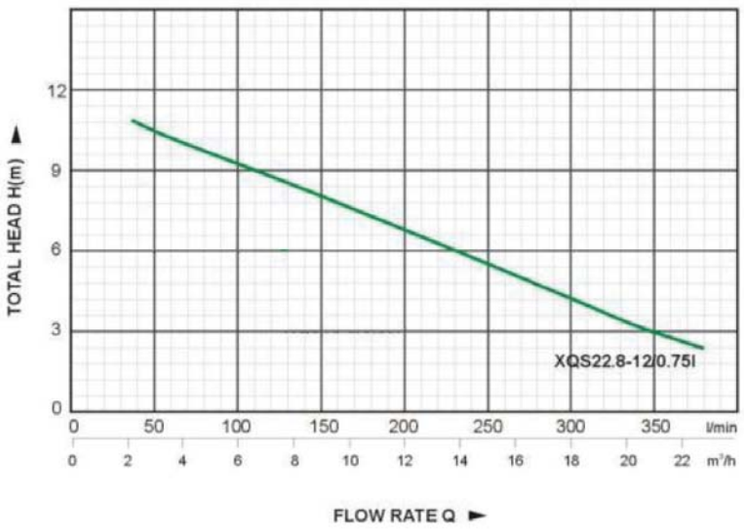
Applications & Features

Single-phase and three-phase clean water submersible pumps are advanced and ideal drainage helpers. It is suitable for industrial, mining, construction and farming applications. It is also widely used a water supply pump in gardens and nurseries and agricultural fields and establishments. Motor casing, screen and rotor are made of stainless steel. Pump body and wet end are made of cast iron with a chrome plate finish with good corrosion resistance. Small, lightweight and easy to use.A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40℃
pH	6.5~8.5
Maximum solid size	2mm

PERFORMANCE CHART AT n=2900 rpm



SEMI-OPEN TRIPLE CHANNEL IMPELLER

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Clean water submersible	Stainless steel	Cast iron - Chr Plt	50	XQS22.8-12/0.75I	0.75	220V and 380V	12	2	6.3	380	0.4	18.5	22.0 x 22.0 x 44.0

XSP12-8.5/0.45I ■ XSP18-12/0.75I

Applications & Features

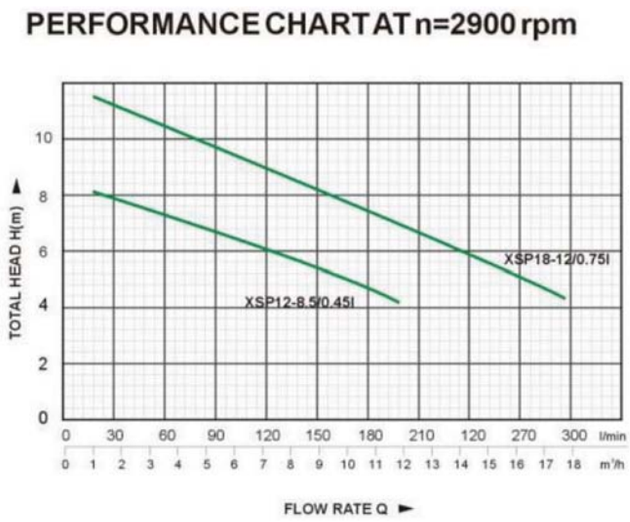
Single-phase and three-phase sewage submersible pumps are advanced and ideal drainage helpers. With the distinct design of wetted parts, it can work safely and effectively at a wide flow range with the feature of total head (non-overload).

Impeller, large channel and anti-clogging makes this pump efficient to transfer liquid with solids up to 25mm and long fibres. Bottom suction structure makes complete drainage. Stainless steel and special cast iron parts allow for maximum anti-corrosiveness. A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3

VORTEX IMPELLER



Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions (cm)
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	
Sewage submersible	Stainless steel	Cast iron	50	XSP12-8.5/0.45I	0.45	220V and 380V	8.5	25	3.3	200	0.2	18	25.5 x 19.5 x 49.5
Sewage submersible	Stainless steel	Cast iron	50	XSP18-12/0.75I	0.75	220V and 380V	12	25	5.0	300	0.3	22	25.5 x 19.5 x 53.5

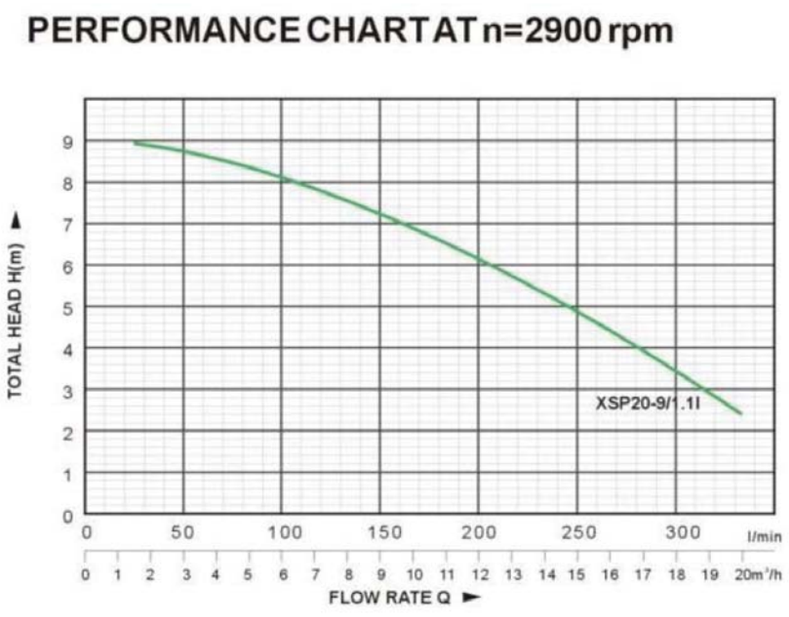
XSP20-9/1.1I

Applications & Features

Single-phase and three-phase sewage submersible pumps are advanced and ideal drainage helpers. With the distinct design of wetted parts, it can work safely and effectively at a wide flow range with the feature of total head (non-over-load). Impeller, large channel and anti-clogging makes this pump efficient to transfer liquid with solids up to 35mm and long fibres. Bottom suction structure makes complete drainage. Stainless steel and special cast iron parts allow for maximum anti-corrosiveness. A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40℃
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3



VORTEX IMPELLER

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Sewage submersible	Stainless steel	Cast iron	50	XSP20-9/1.1I	1.1	220V and 380V	9	35	5.6	333	0.3	23.5	27.5 x 22.5 x 55.5

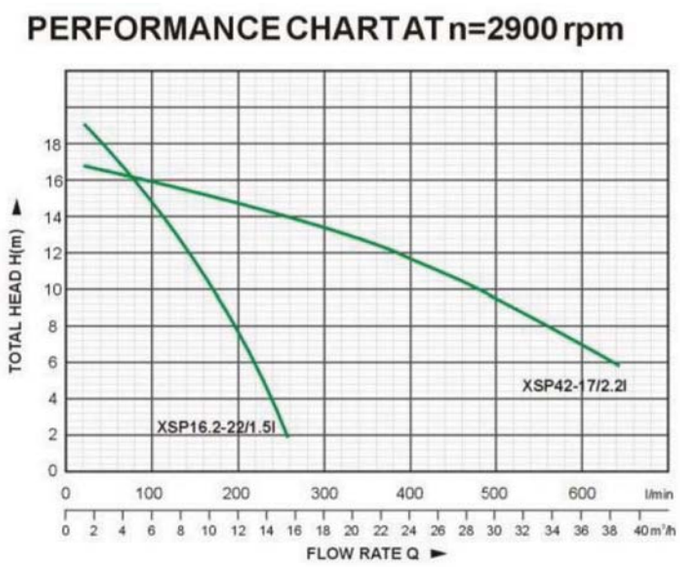
Applications & Features

Single-phase and three-phase sewage submersible pumps are advanced and ideal drainage helpers. With the distinct design of wetted parts, it can work safely and effectively at a wide flow range with the feature of total head (non-overload).

Impeller, large channel and anti-clogging makes this pump efficient to transfer liquid with solids up to 20mm and long fibres. Bottom suction structure makes complete drainage. Stainless steel and special cast iron parts allow for maximum anti-corrosiveness. A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3



XSP16.2-22/1.5l

SEMI-OPEN DOUBLE CHANNEL

XSP42-17/2.2l

SEMI-OPEN DOUBLE CHANNEL

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Sewage submersible	Stainless steel	Cast iron	40	XSP16.2-22/1.5l	1.5	220V and 380V	22	10	4.5	270	0.3	27	58.5 x 35.0 x 24.5
Sewage submersible	Stainless steel	Cast iron	75	XSP42-17/2.2l	2.2	220V and 380V	17	20	11.7	700	0.7	35	58.5 x 35.0 x 24.5

XSP9-7.5/0.25S

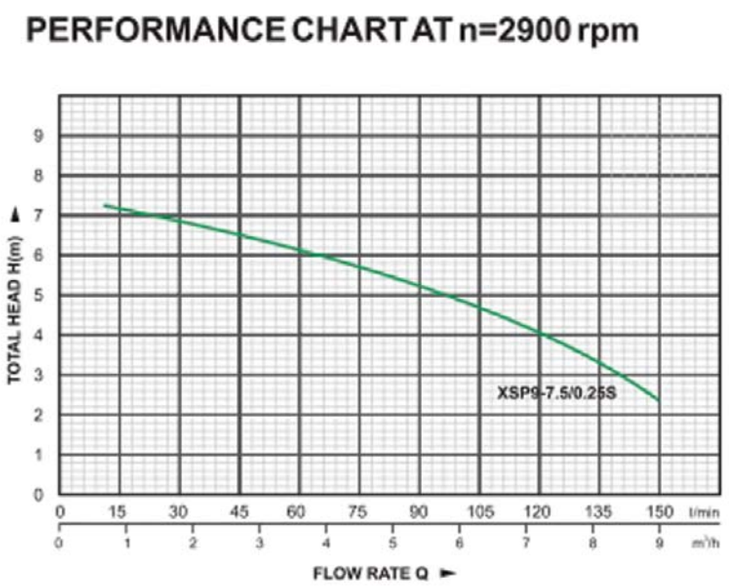
Applications & Features

Single-phase and three-phase submersible pumps in entire stainless steel construction. With the distinct design of wetted parts, it can work safely and effectively at a wide flow range with the feature of total head (non-overload).

It is suitable for industrial, mining, construction and farming applications. It can be used to transfer liquid medicine, beverage, seawater, liquids physically close to water and any light corrosive liquids containing solids up to 15mm. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3



VORTEX IMPELLER

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Clean water submersible	Complete Stainless steel		25	XSP9-7.5/0.25S	0.25	220V and 380V	7.5	15	2.5	150	0.2	10.5	18.5 x 18.0 x 38.0

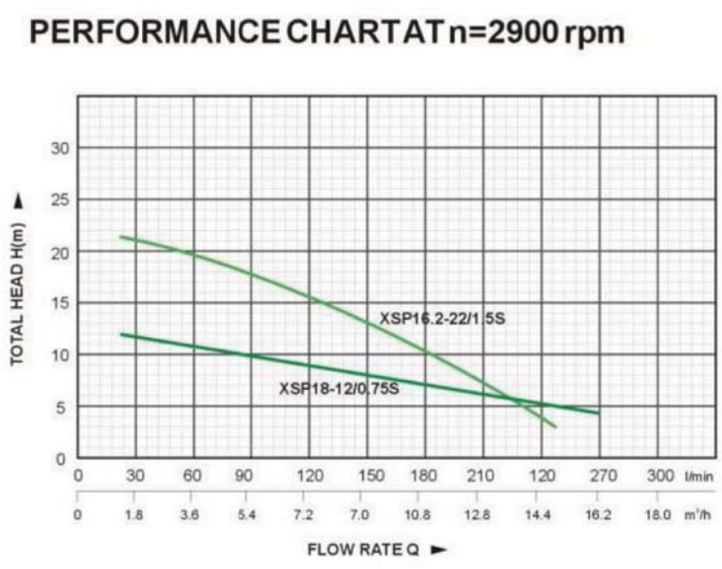
Applications & Features

Single-phase and three-phase submersible pumps in entire stainless steel construction. With the distinct design of wetted parts, it can work safely and effectively at a wide flow range with the feature of total head (non-overload).

Bottom suction structure makes complete drainage. It is suitable for industrial, mining, construction and farming applications. It can be used to transfer liquid medicine, beverage, seawater, liquids physically close to water and any light corrosive liquids containing solids up to 25mm. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3



XSP18-12/0.75S

VORTEX IMPELLER

XSP16.2-22/1.5S

SEMI-OPEN DOUBLE CHANNEL

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max particle	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	diametre (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Sewage submersible	Complete stainless steel		50	XSP18-12/0.75S	0.75	220V and 380V	12	25	5.0	300	0.3	22	25.5 x 19.5 x 53.5
Sewage submersible	Complete stainless steel		40	XSP16.2-22/1.5S	1.5	220V and 380V	22	10	4.5	270	0.3	28.5	58.5 x 35.0 x 24.5

XSP14-7/1.1ID

Applications & Features

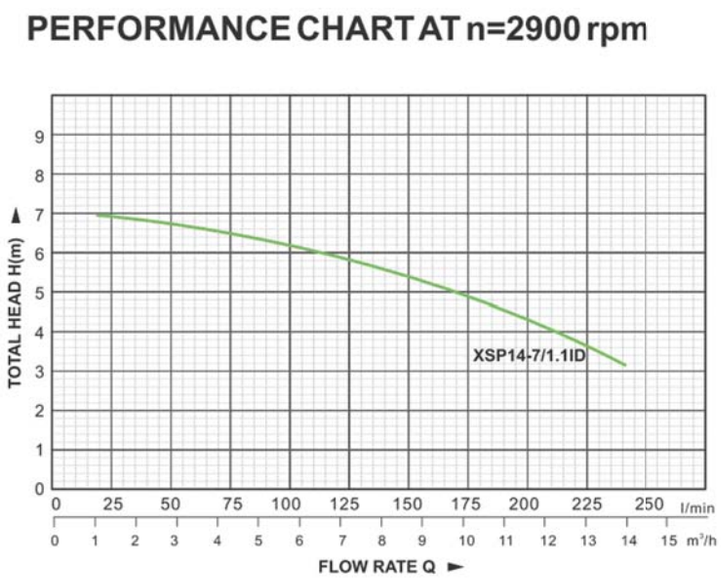
Single-phase and three-phase sewage submersible pumps with cutting blades are ideal for sewage disposal. Pumps have a high speed cutting system that can effectively cut off impurities containing long fibres and solids and prevent the impeller from clogging.

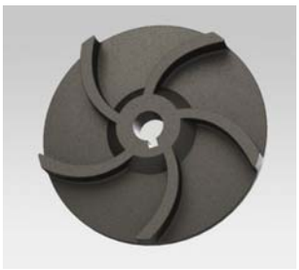
It is suitable for sewage disposal in the public health sector, mining and industrial as well as domestic applications.

A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3





VORTEX IMPELLER WITH CUTTING BLADES

Type	Construction		Discharge	Model no	Output	Voltage	Head	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Sewage submersible with cutting blades	Stainless steel	Cast iron	50	XSP14-7/1.1ID	1.1	220V and 380V	7	3.9	233	0.2	22.5	56.5 x 30.5 x 24.5

XSP18-12/1.3ID ■ XSP26.4-10/1.8ID

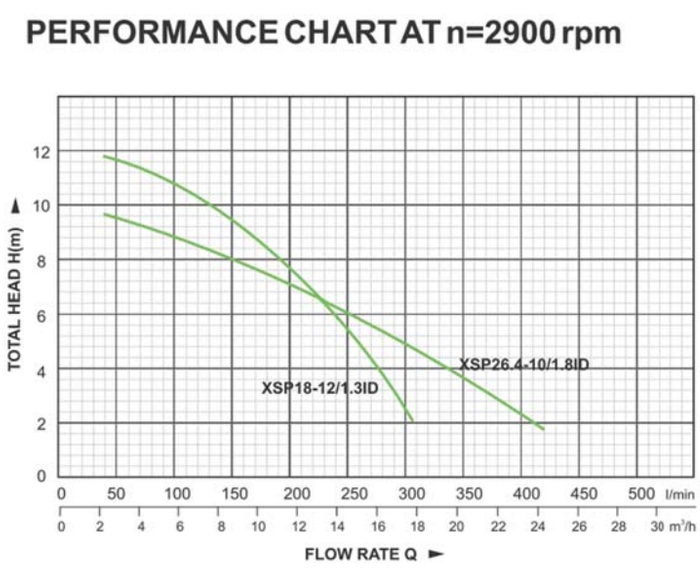
Applications & Features

Single-phase and three-phase sewage submersible pumps with cutting blades are ideal for sewage disposal. Pumps have a high speed cutting system that can effectively cut off impurities containing long fibres and solids and prevent the impeller from clogging.

It is suitable for sewage disposal in the public health sector, mining and industrial as well as domestic applications.
A float switch automatically turns the pump on/off according to the change of liquid level. Float switch only available for 220V model. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40℃
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	$1.2 \times 10^3 kg/m^3$



XSP18-12/1.3ID

VORTEX IMPELLER WITH CUTTING BLADES

XSP26.4-10/1.8ID

SEMI-OPEN DOUBLE CHANNEL IMPELLER WITH CUTTING BLADES

Type	Construction		Discharge	Model no	Output	Voltage	Head	Flow	Flow	Flow	Weight	Packing dimensions
	Motor frame	Wet end	(mm)		(kW)		(m)	Q (L/sec)	Q (L/min)	Q (m^3/min)	(kg)	(cm)
Clean water submersible	Stainless steel	Cast iron	50	XSP18-12/1.3ID	1.3	220V and 380V	12	5.0	300	0.3	22.5	56.5 x 30.5 x 24.5
Clean water submersible	Stainless steel	Cast iron	75	XSP26.4-10/1.8ID	1.8	220V and 380V	10	7.3	440	0.4	32	58.5 x 35.0 x 24.5

Sewage submersible with cutting blades

80QW57-8-3.0 ■ 80QW56-10-4.0 ■ 100QW62-12-5.5 ■ 100QW70-15-7.5

Applications & Features

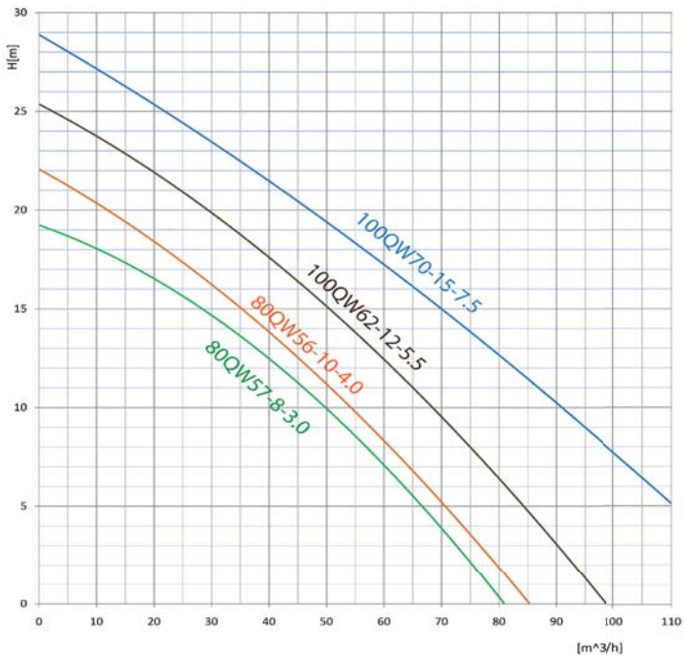
Three-phase sewage submersible pumps with cutting blades are ideal for sewage disposal. Pumps have a high speed cutting system that can effectively cut off impurities containing long fibres and solids and prevent the impeller from clogging.

It is suitable for sewage disposal in the public health sector, mining and industrial as well as domestic applications. Motor equipped with overheating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40°C
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	1.2×10^3 kg/m^3
Maximum solid size	80mm

PERFORMANCE CHART



Type	Construction		Discharge	Model no	Output	Voltage	Head	Flow	Flow	Flow
	Motor frame	Wet end	(mm)		(kW)		(m)	Q (L/sec)	Q (L/min)	Q (m^3/min)
Sewage submersible with cutting blades	Complete cast iron		80	80QW57-8-3.0	3	380V	8	15.8	950	0.9
Sewage submersible with cutting blade	Complete cast iron		80	80QW55-10-4.0	4	380V	10	15.2	916	0.9
Sewage submersible with cutting blade	Complete cast iron		100	100QW62-12-5.5	5.5	380V	12	17.2	1033	1
Sewage submersible with cutting blade	Complete cast iron		100	100QW70-15-7.5	7.5	380V	15	19.4	1166	1.1

Applications & Features

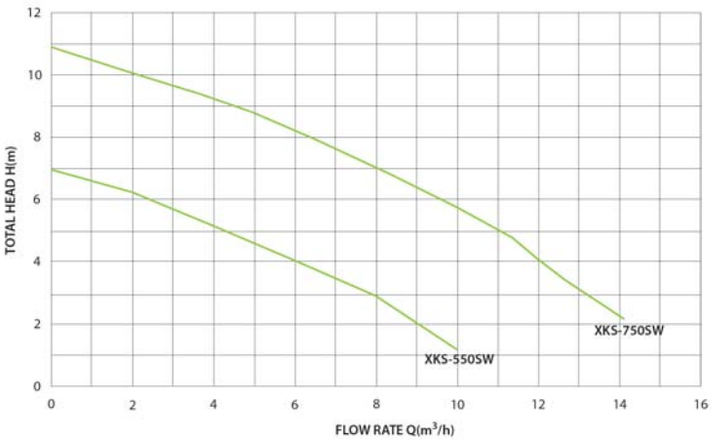
Single-phase dirty water submersible pumps are ideal for domestic water disposal. It is suitable for draining swimming pools and garden ponds. Equipped with float switch for automatic shut-off for low levels.

A float switch automatically turns the pump on/off according to the change of liquid level. Motor equipped with over-heating and over current protection.

Operating Conditions

Maximum immersion depth	5m
Maximum liquid temperature	+40℃
pH	4~10
Liquid kinematic viscosity	$7 \times 10^{-7} \sim 23 \times 10^{-6} m^2/s$
Maximum liquid density	$1.2 \times 10^3 kg/m^3$

PERFORMANCE CHART AT n=2900 rpm



XKS-550SW

XKS-1000SW

Type	Construction		Discharge	Model no	Output	Voltage	Head	Max	Flow	Flow	Flow	Flow	Cable
	Motor frame	Wet end	(mm)		(kW)		(m)	particle (mm)	Q (L/sec)	Q (L/min)	Q (m^3/min)	Q (m^3/h)	
Garden water submersible	Stainless steel		25	XKS-550SW	0.55	220V - 240V/50Hz	6	35	2.8	166	0.17	10	H05RN-F 10m
Garden water submersible	Stainless steel		32	XKS-1000SW	1.0	220V - 240V/50Hz	11	35	4.0	241	0.24	14.5	H07RN-F 10m

Solotrade 1088 cc
T/A
SKY ENTERPRISE

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