

**50/60Hz**



# CONTROL PANELS

RANGE OF PANELS FOR CONTROL AND  
PROTECTION OF LOWARA ELECTRIC PUMPS

Cod. 191007691 Rev. D Ed.03/2018

 **LOWARA**  
a xylem brand



## Xylect™

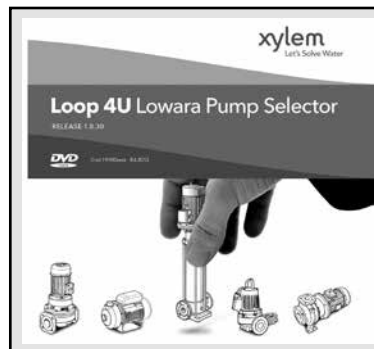
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For more information, please, see page . 39-40.

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## Single-phase Electric Panel

### QSM Series

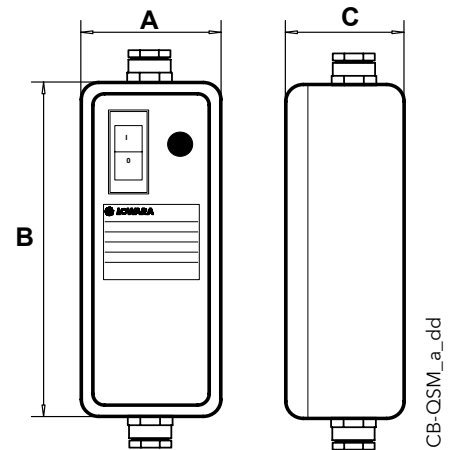
#### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.



#### SPECIFICATIONS

- Main switch for manual control.
- Supply voltage: 1 x 220-240 V  $\pm$ 5%.
- Frequency: 50 Hz.
- Power: 0,25 to 1,1 kW.
- Direct motor start.
- Protection class: IP44.
- Ambient temperature: -5 to +40 °C
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs.
- Wall mounted.
- Plastic enclosure.
- Incorporated capacitor.
- Thermal protection with motor protector inside the panel.



CB-QSM\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (Kg)
		kW	HP			A	B	C	
QSM/03	1 x 220-240 $\pm$ 5%	0,37	0,5	3,4	16	80	210	65	0,45
QSM/05	1 x 220-240 $\pm$ 5%	0,55	0,75	4,8	20	80	210	65	0,45
QSM/07	1 x 220-240 $\pm$ 5%	0,75	1	6,5	30	80	210	65	0,45
QSM/11	1 x 220-240 $\pm$ 5%	1,1	1,5	8,3	40	80	210	65	0,45

CB-QSM-en\_d\_te

## Single-phase Electric Panel

## QPC Series

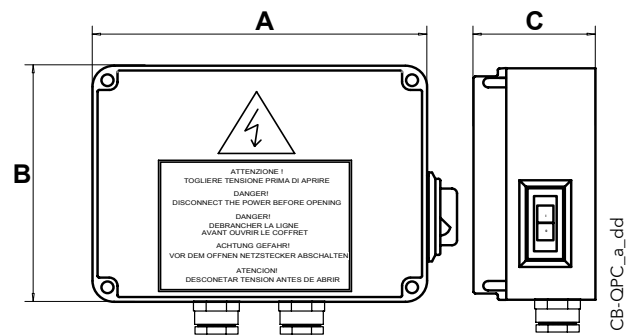
### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.



### SPECIFICATIONS

- Main switch for manual control.
- Supply voltage: 1 x 230 V ±10%.
- Frequency: 50 Hz.
- Power: 0,37 to 2,2 kW.
- Direct motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted with fins.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with manual-reset thermal protection and power indicator light.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP			A	B	C	
QPC/03	1 x 230 $\pm$ 10%	0,37	0,5	4	16	170	170	75	1,1
QPC/05	1 x 230 $\pm$ 10%	0,55	0,75	5	20	170	170	75	1,1
QPC/07	1 x 230 $\pm$ 10%	0,75	1	6	30	170	170	75	1,1
QPC/11	1 x 230 $\pm$ 10%	1,1	1,5	9	40	170	170	75	1,1
QPC/15	1 x 230 $\pm$ 10%	1,5	2	11	50	170	170	75	1,1
QPC/22	1 x 230 $\pm$ 10%	2,2	3	16	70	170	170	127	1,2

CB-QPC-en\_b\_te

## Single-phase Electric Panel

## QPCS Series

### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.

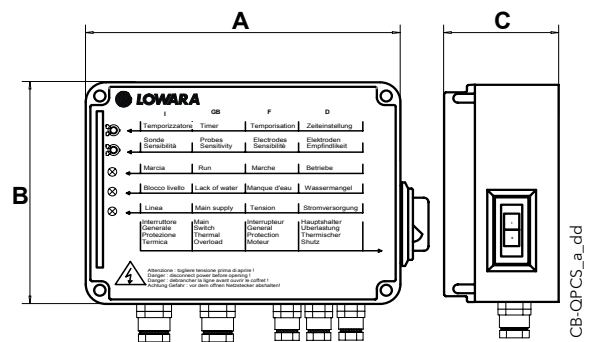


### SPECIFICATIONS

- Automatic control through an external enable contact.
- Supply voltage: 1 x 230 V ±10%.
- Frequency: 50 Hz.
- Power: 0,37 to 2,2 kW.
- 12 VAC low-voltage auxiliary circuit.
- Direct motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted with fins.
- Plastic enclosure with transparent cover.
- Incorporated capacitor.
- Main switch with manual-reset thermal protection and power indicator light.
- Power, pump running, level control LED.
- Overvoltage discharges.
- Dry running control through probes or float or minimum pressure switch.

### OPTIONAL ACCESSORIES

- Set of 3 electrodes (probes) without cable.
- Float.
- Pressure switch.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP			A	B	C	
QPCS/03	1 x 230 $\pm$ 10%	0,37	0,5	4	16	200	150	80	1,3
QPCS/05	1 x 230 $\pm$ 10%	0,55	0,75	5	20	200	150	80	1,3
QPCS/07	1 x 230 $\pm$ 10%	0,75	1	6	30	200	150	80	1,3
QPCS/11	1 x 230 $\pm$ 10%	1,1	1,5	9	40	200	150	80	1,3
QPCS/15	1 x 230 $\pm$ 10%	1,5	2	11	50	200	150	80	1,3
QPCS/22	1 x 230 $\pm$ 10%	2,2	3	16	70	200	150	80	1,3

CB-QPCS-en\_b\_te

## Single-phase Electric Panel

### QSC Series

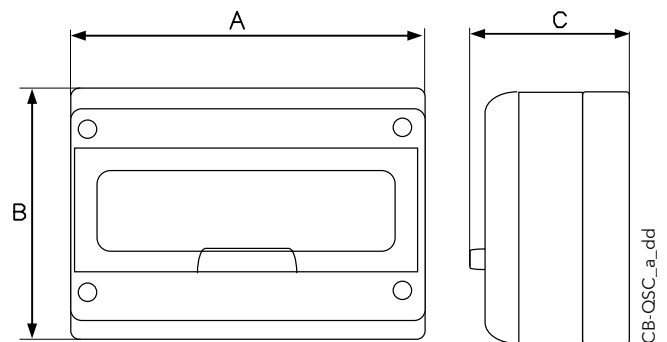
#### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.



#### SPECIFICATIONS

- Main switch for manual control.
- Supply voltage: 1 x 230 V ±10%.
- Frequency: 50 Hz.
- Power: 0,37 to 4 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with manual-reset thermal protection.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (Kg)
		kW	HP			A	B	C	
QSC/03	1 x 230 $\pm$ 10%	0,37	0,5	2,5 $\div$ 4	16	195	220	112	1,7
QSC/05	1 x 230 $\pm$ 10%	0,55	0,75	4 $\div$ 6,3	20	195	220	112	1,7
QSC/07	1 x 230 $\pm$ 10%	0,75	1	4 $\div$ 6,3	30	195	220	112	1,7
QSC/11	1 x 230 $\pm$ 10%	1,1	1,5	6,3 $\div$ 10	40	195	220	112	1,7
QSC/15	1 x 230 $\pm$ 10%	1,5	2	10 $\div$ 16	50	195	220	112	1,7
QSC/22	1 x 230 $\pm$ 10%	2,2	3	16 $\div$ 20	70	195	220	112	2,7
QSC/40	1 x 230 $\pm$ 10%	4	5,5	25 $\div$ 32	90	195	267	112	3

CB-QSC-en\_f\_te

## Single-phase Electric Panel

### APPLICATIONS

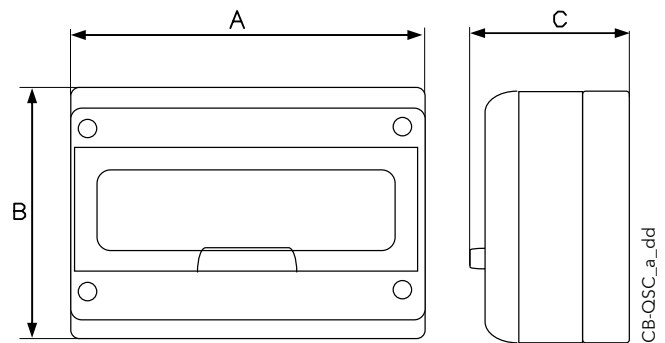
Protection and control of a single-phase submersible electric pump for 4" wells.

## QSC 60Hz Series



### SPECIFICATIONS

- Main switch for manual control.
- Supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 60 Hz.
- Power: 0,37 to 4 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with manual-reset thermal protection.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (Kg)
		kW	HP			A	B	C	
QSC/036	1 x 230 $\pm$ 10%	0,37	0,5	2,5 $\div$ 4	20	195	200	112	1,7
QSC/056	1 x 230 $\pm$ 10%	0,55	0,75	4 $\div$ 6,3	25	195	200	112	1,7
QSC/056A	1 x 230 $\pm$ 10%	0,55	0,75	6,3 $\div$ 10	25	195	200	112	1,7
QSC/076	1 x 230 $\pm$ 10%	0,75	1	6,3 $\div$ 10	35	195	200	112	1,7
QSC/116	1 x 230 $\pm$ 10%	1,1	1,5	6,3 $\div$ 10	40	195	200	112	1,7
QSC/116A	1 x 230 $\pm$ 10%	1,1	1,5	10 $\div$ 16	40	195	200	112	1,7
QSC/156	1 x 230 $\pm$ 10%	1,5	2	10 $\div$ 16	50	195	200	112	1,7

CB-QSC6-en\_e\_te

## Single-phase Electric Panel

### QSCS Series

#### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.

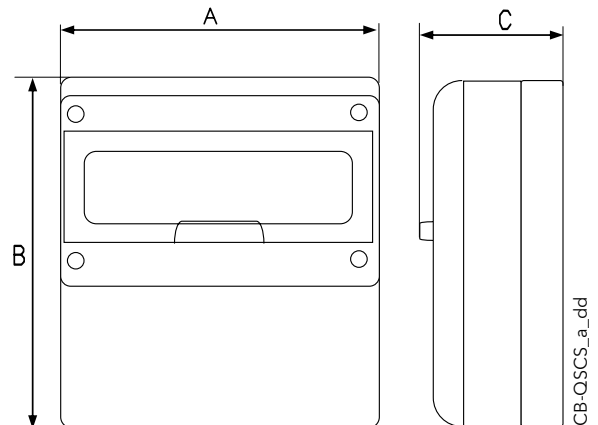


#### SPECIFICATIONS

- Automatic control through an external enable contact.
- Supply voltage: 1 x 230 V ±10%.
- Frequency: 50 Hz.
- Power: 0,37 to 2,2 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with thermal protection.
- Dry running control with float or minimum pressure switch (available separately).

#### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).



CB-QSCS\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (Kg)
		kW	HP			A	B	C	
QSCS/03	1 x 230 ± 10%	0,37	0,5	2,5 ÷ 4	16	280	370	160	3,7
QSCS/05	1 x 230 ± 10%	0,55	0,75	4 ÷ 6,3	20	280	370	160	3,7
QSCS/07	1 x 230 ± 10%	0,75	1	4 ÷ 6,3	30	280	370	160	3,7
QSCS/11	1 x 230 ± 10%	1,1	1,5	6,3 ÷ 10	40	280	370	160	3,7
QSCS/15	1 x 230 ± 10%	1,5	2	10 ÷ 16	50	280	370	160	3,7
QSCS/22	1 x 230 ± 10%	2,2	3	16 ÷ 20	70	280	370	160	4
QSCS/40	1 x 230 ± 10%	4	5,5	25 ÷ 32	90	280	370	160	4

CB-QSCS-en\_d\_te

## Single-phase Electric Panel

### APPLICATIONS

Protection and control of a single-phase submersible electric pump for 4" wells.

## QSCS 60Hz Series

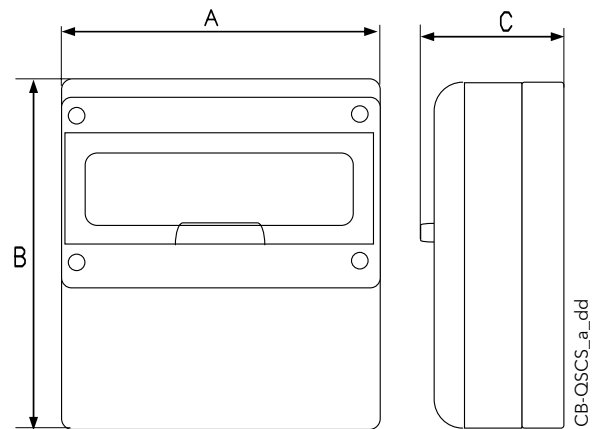


### SPECIFICATIONS

- Automatic control through an external enable contact.
- Supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 60 Hz.
- Power: 0,37 to 2,2 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with thermal protection.
- Dry running control with float or minimum pressure switch (available separately).

### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).



CB-QSCS\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) $\mu$ F	DIMENSIONS (mm)			WEIGHT (Kg)
		kW	HP			A	B	C	
QSCS/036	1 x 230 $\pm$ 10%	0,37	0,5	2,5 $\div$ 4	20	280	370	160	3,7
QSCS/056	1 x 230 $\pm$ 10%	0,55	0,75	4 $\div$ 6,3	25	280	370	160	3,7
QSCS/056A	1 x 230 $\pm$ 10%	0,55	0,75	6,3 $\div$ 10	25	280	370	160	3,7
QSCS/076	1 x 230 $\pm$ 10%	0,75	1	6,3 $\div$ 10	35	280	370	160	3,7
QSCS/116	1 x 230 $\pm$ 10%	1,1	1,5	6,3 $\div$ 10	40	280	370	160	3,7
QSCS/116A	1 x 230 $\pm$ 10%	1,1	1,5	10 $\div$ 16	40	280	370	160	3,7
QSCS/156	1 x 230 $\pm$ 10%	1,5	2	10 $\div$ 16	50	280	370	160	3,7

CB-QSCS6-en\_e\_te

## Single-phase Electric Panel

### QCLP10 Series

#### APPLICATIONS

Protection and control of a single-phase electric pump.



#### SPECIFICATIONS

- Automatic control through probes.
- Supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Voltage to probes: 7,5 VAC at 0,4 mA max.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Enclosure made of plastic material, with clear door enabling access to the magnetothermal switch.
- Electrodes suitable for water at a maximum temperature of 60°C.
- Set of three electrodes included in the supply.
- Short-circuit and overload protection C characteristic
- Power: 0,25 to 1,5 kW.

#### OPTIONAL ACCESSORIES

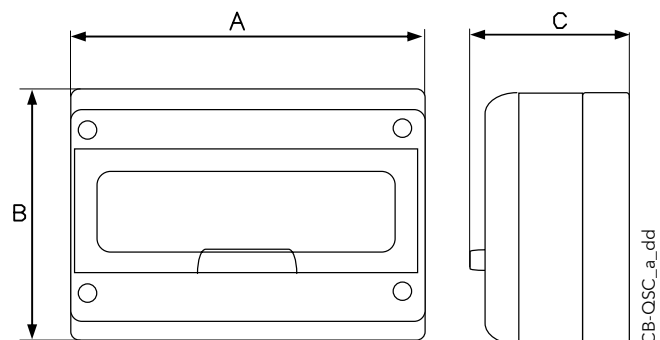
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm <sup>2</sup> )
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

For connection of the electrodes to the panel we recommend the following cross sections:

- Three-pole cables can be used for short lengths..
- Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.

CB-CASEL-en\_c\_te



MODEL	RATED VOLTAGE (V)	CONTACTOR RANGE		MAGNETO-THERMAL SWITCH	DIMENSIONS (mm)			WEIGHT (Kg)
		V	A		A	B	C	
QCLP10/230	1~ 230 $\pm$ 10%	230	11	C 16 A Icn 4,5 KA	195	200	112	1,5

CB-QCLP10-en\_e\_te

## Single-phase Electric Panel

### APPLICATIONS

Protection and control of a single-phase electric pump

## QCLP10/DI Series



### SPECIFICATIONS

- Automatic control through probes.
- Supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Voltage to probes: 7,5 VAC at 0,4 mA max.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Enclosure made of plastic material, with clear door enabling access to the magnetothermal switch.
- Electrodes suitable for water at a maximum temperature of 60°C.
- Set of three electrodes included in the supply.
- Short-circuit and overload protection C characteristic
- Power: 0,25 to 1,5 kW.

### OPTIONAL ACCESSORIES

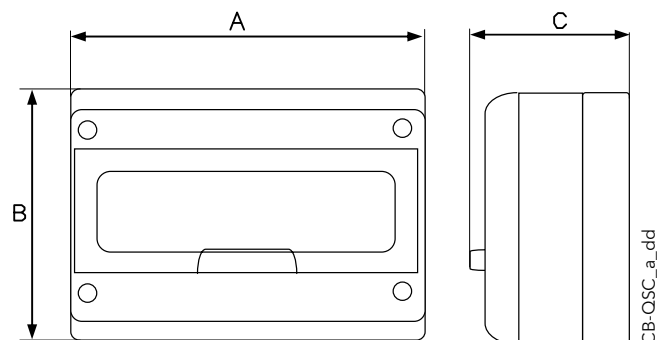
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm <sup>2</sup> )
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

CB-CASEL-en\_c\_te

For connection of the electrodes to the panel we recommend the following cross sections:

- Three-pole cables can be used for short lengths..
- Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



MODEL	RATED VOLTAGE (V)	CONTACTOR RANGE		MAGNETO-THERMAL SWITCH	DIMENSIONS (mm)			WEIGHT (Kg)
		V	A		A	B	C	
QCLP10/230/DI	1~ 230 $\pm$ 10%	230	11	C 16 A Icn 4,5 KA	195	200	112	1,5

CB-QCLP10-DI-en\_c\_te

## Single-phase Electric Panel

### Q-SMART Series

#### APPLICATIONS

Protection and control of 1 or 2 electric pumps to be used for controlling pressure boosting or sewage applications.

#### VERSATILE

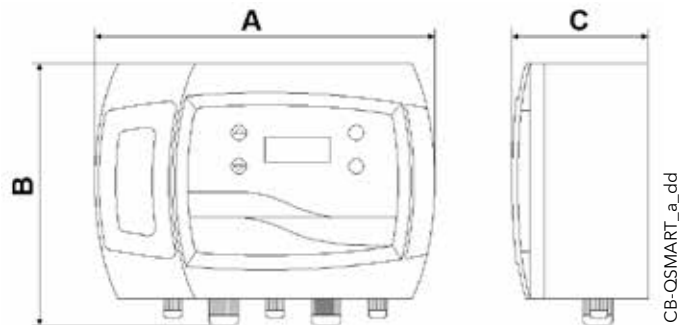
50 different combinations available within this one product that can be used for controlling pressure boosting or sewage applications. Pre-programmed packages that decrease installation and commissioning costs.

#### SPECIFICATIONS

- Power: until 1,5 kW.
- Supply voltage: 1 x 230 V  $\pm$ 10% 50/60Hz
- Protection class: IP55.
- Pressure monitoring by sensor.
- Electric pump automatic check by electronic thresholds with disabled of cycle reversal function.
- Jockey pump management by disabled of cycle reversal function.
- Adjustable electronic thresholds to manage start and stop of each electric pumps.
- Recording of operating hours and alarms.
- Dedicated circuit for connection of electrode probes with sensitivity adjustment.
- Dry run, overload and shortcircuit protections.
- Connection for external ON/OFF or external alarm.
- Bypass functionality to be used in the event of failure of the electronic board to guarantee the operation of the pumps.

#### OPTIONAL ACCESSORIES

- Modbus Q-Smart module.
- 6CP Q-Smart module.



CB-QSMART\_a\_dd

MODEL	N° PUMPS MENAGED	RATED VOLTAGE (V)	CONTACTOR RANGE		MAGNETO- THERMAL SWITCH	DIMENSIONS (mm)			WEIGHT (Kg)
			(V)	(A)		A	B	C	
Q-SMART 10	1	1~ 230 $\pm$ 10%	230	11	C 32 A Icn 4,5 KA	262	218	96	1,5
Q-SMART 20	2	1~ 230 $\pm$ 10%	230	11	C 32 A Icn 4,5 KA	262	218	96	1,5

CB-QSMART-en\_a\_te

## Three-phase Electric Panel

## QTD Series

### APPLICATIONS

Protection and control of a three-phase electric pump.



### SPECIFICATIONS

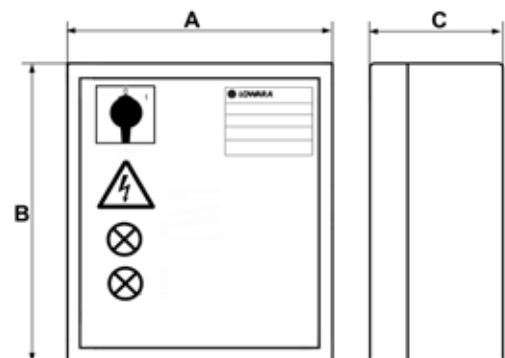
- Control through an external enable contact.
- Supply voltage: 3 x 400 V ± 10%.
- Frequency: 50/60 Hz.
- Power: 0,25 to 9,2 kW.
- Direct motor start.
- Short-circuit and overload protection.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Ready for installation of dry running control float or pressure switch (to be ordered separately).
- Power and thermal overload indicator lights.

### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).

### SELECTION

- For a suitable choice of control panel, be sure the electrical input of the motor (Ampere) is included in the rated current value mentioned in the table below.



CB-QTD\_b\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QTD/02-03	3 x 400 ± 10%	0,25-0,37	0,33-0,50	0,63 ÷ 1	235	265	150	5,8
QTD/03-05	3 x 400 ± 10%	0,37-0,55	0,55-0,75	1 ÷ 1,6	235	265	150	5,8
QTD/05-07	3 x 400 ± 10%	0,55-0,75	0,75-1	1,6 ÷ 2,5	235	265	150	5,8
QTD/07-15	3 x 400 ± 10%	0,75-1,5	1-2	2,5 ÷ 4	235	265	150	5,8
QTD/15-22	3 x 400 ± 10%	1,5-2,2	2-3	4 ÷ 6,3	235	265	150	5,8
QTD/22-40	3 x 400 ± 10%	2,2-4	3-5,5	6,3 ÷ 10	235	265	150	5,8
QTD/40-75	3 x 400 ± 10%	4-7,5	5,5-10	10 ÷ 16	235	265	150	5,8
QTD/75-92	3 x 400 ± 10%	7,5-9,2	10-12,5	16 ÷ 20	235	265	150	5,8
QTD/92-110	3 x 400 ± 10%	9,2-11	12,5-15	20 ÷ 25	235	265	150	5,8

CB-QTD-en\_d\_te

## Three-phase Electric Panel

### Q3D Series

#### APPLICATIONS

Protection and control of a three-phase electric pump.

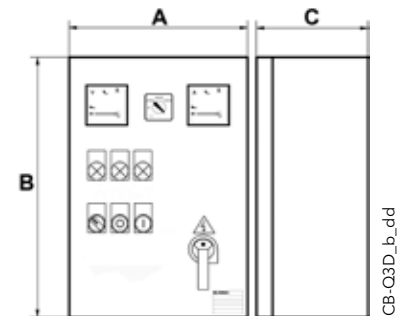


#### SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 0,25 to 37 kW.
- Direct motor start.
- Short-circuit and overload protection.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Power, pump running, thermal overload and dry running indicator lights.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

#### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).
- Float.
- Pressure switch.



CB-Q3D\_b\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q3D/02-03	3 x 400 ± 10%	0,25-0,37	0,33-0,50	0,63 ÷ 1	300	400	200	15
Q3D/03-05	3 x 400 ± 10%	0,37-0,55	0,5-0,75	1 ÷ 1,6	300	400	200	15
Q3D/05-07	3 x 400 ± 10%	0,55-0,75	0,75-1	1,6 ÷ 2,5	300	400	200	15
Q3D/07-15	3 x 400 ± 10%	0,75-1,5	1-2	2,5 ÷ 4	300	400	200	15
Q3D/15-22	3 x 400 ± 10%	1,5-2,2	2-3	4 ÷ 6,3	300	400	200	15
Q3D/22-40	3 x 400 ± 10%	2,2-4	3-5,5	6,3 ÷ 10	300	400	200	15
Q3D/40-75	3 x 400 ± 10%	4-7,5	5,5-10	10 ÷ 16	300	400	200	15
Q3D/75-92	3 x 400 ± 10%	7,5-9,2	10-12,5	16 ÷ 20	300	400	200	15
Q3D/92-110	3 x 400 ± 10%	9,2-11	12,5-15	20 ÷ 25	300	400	200	20
Q3D/110-150	3 x 400 ± 10%	11-15	15-20	22 ÷ 32	400	500	200	20
Q3D/150-185	3 x 400 ± 10%	15-18,5	20-25	28 ÷ 40	400	500	200	20
Q3D/185-220	3 x 400 ± 10%	18,5-22	25-30	36 ÷ 50	400	600	200	27
Q3D/220-300	3 x 400 ± 10%	22-30	30-40	45 ÷ 63	400	600	200	27
Q3D/300-370	3 x 400 ± 10%	30-37	40-50	57 ÷ 75	400	600	200	27

CB-Q3D-en\_b\_tte

## Three-phase Electric Panel

### Q3Y Series

#### APPLICATIONS

Protection and control of a three-phase electric pump.

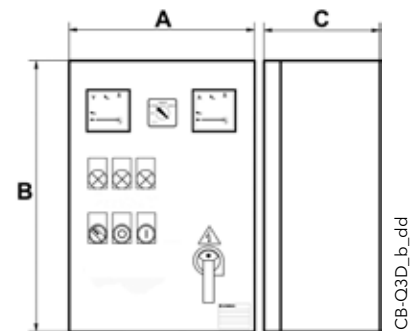


#### SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 4 to 315 kW.
- Star-delta starting.
- Short-circuit and overload protection.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Power, pump running, thermal overload and dry running indicator lights.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

#### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).
- Float.
- Pressure switch.



CB-Q3D\_b\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q3Y/40-75	3 x 400 ± 10%	4-7,5	5,5-10	10 ÷ 16	400	500	200	23
Q3Y/75-92	3 x 400 ± 10%	7,5-9,2	10-12,5	16 ÷ 20	400	500	200	23
Q3Y/92-110	3 x 400 ± 10%	9,2-11	12,5-15	20 ÷ 25	400	500	200	23
Q3Y/110-150	3 x 400 ± 10%	11-15	15-20	22 ÷ 32	400	600	200	23
Q3Y/150-185	3 x 400 ± 10%	15-18,5	20-25	28 ÷ 40	400	600	200	23
Q3Y/185-220	3 x 400 ± 10%	18,5-22	25-30	36 ÷ 50	500	700	200	32
Q3Y/220-300	3 x 400 ± 10%	22-30	30-40	45 ÷ 63	500	700	200	32
Q3Y/300-370	3 x 400 ± 10%	30-37	40-50	57 ÷ 75	600	800	250	68
Q3Y/370-450	3 x 400 ± 10%	37-45	50-60	70 ÷ 90	600	800	250	80
Q3Y/450-550	3 x 400 ± 10%	45-55	60-75	80 ÷ 108	600	900	250	80
Q3Y/550-750	3 x 400 ± 10%	55-75	75-100	105 ÷ 138	600p*	1300p*	300p*	109
Q3Y/750-900	3 x 400 ± 10%	75-90	100-125	138 ÷ 185	600p*	1300p*	300p*	109
Q3Y/900-1100	3 x 400 ± 10%	90-110	125-150	175 ÷ 210	600p*	1500p*	300p*	120
Q3Y/1100-1320	3 x 400 ± 10%	110-132	150-180	210 ÷ 260	800p*	1700p*	400p*	130
Q3Y/1320-1600	3 x 400 ± 10%	132-160	180-218	250 ÷ 305	800p*	1700p*	400p*	130
Q3Y/1600-2000	3 x 400 ± 10%	160-200	218-273	290 ÷ 400	800p*	1900p*	400p*	140

\* Note : P indicates floor mounted control panel.

CB-Q3Y-en\_d\_te

## Three-phase Electric Panel

### Q3I Series

#### APPLICATIONS

Protection and control of a three-phase electric pump.

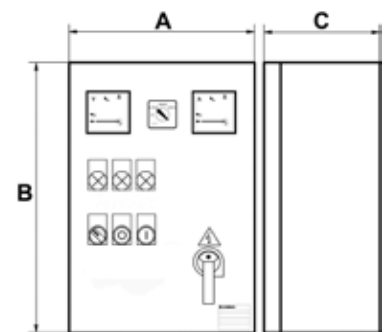


#### SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 4 to 315 kW.
- Impedance start.
- Short-circuit and overload protection.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Power, pump running, thermal overload and dry running indicator lights.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

#### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).
- Float.
- Pressure switch.



CB-Q3D\_b\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q3I/40-75	3 x 400 ± 10%	4-7,5	5,5-10	10 ÷ 16	400	600	250	35
Q3I/75-92	3 x 400 ± 10%	7,5-9,2	10-12,5	16 ÷ 20	400	600	250	35
Q3I/92-110	3 x 400 ± 10%	9,2-11	12,5-15	20 ÷ 25	400	600	250	35
Q3I/110-150	3 x 400 ± 10%	11-15	15-20	22 ÷ 32	500	700	250	50
Q3I/150-185	3 x 400 ± 10%	15-18,5	20-25	28 ÷ 40	500	700	250	50
Q3I/185-220	3 x 400 ± 10%	18,5-22	25-30	36 ÷ 50	500	700	250	50
Q3I/220-300	3 x 400 ± 10%	22-30	30-40	45 ÷ 63	500	700	250	65
Q3I/300-370	3 x 400 ± 10%	30-37	40-50	57 ÷ 75	500	700	250	65
Q3I/370-450	3 x 400 ± 10%	37-45	50-60	70 ÷ 90	600	900	250	65
Q3I/450-550	3 x 400 ± 10%	45-55	60-75	80 ÷ 108	600p*	1300p*	300p*	100
Q3I/550-750	3 x 400 ± 10%	55-75	75-100	105 ÷ 138	600p*	1300p*	300p*	100
Q3I/750-900	3 x 400 ± 10%	75-90	100-125	138 ÷ 185	600p*	1500p*	300p*	100
Q3I/900-1100	3 x 400 ± 10%	90-110	125-150	175 ÷ 210	800p*	1700p*	400p*	100
Q3I/1100-1320	3 x 400 ± 10%	110-132	150-180	210 ÷ 260	800p*	1700p*	400p*	150
Q3I/1320-1600	3 x 400 ± 10%	132-160	180-218	250 ÷ 305	800p*	1700p*	400p*	150
Q3I/1600-2000	3 x 400 ± 10%	160-200	218-273	290 ÷ 400	800p*	1900p*	400p*	160

\* Note : P indicates floor mounted control panel.

## Three-phase Electric Panel

### Q3A Series

#### APPLICATIONS

Protection and control of a three-phase electric pump.

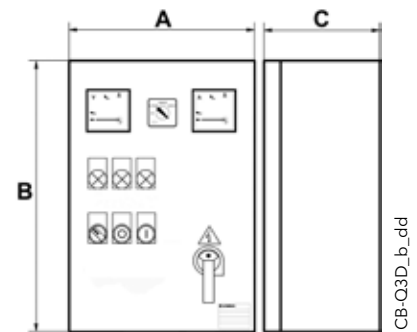


#### SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 4 to 315 kW.
- Starting autotransformer.
- Short-circuit and overload protection.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Power, pump running, thermal overload and dry running indicator lights.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

#### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).
- Float.
- Pressure switch.



CB-Q3D\_b\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q3A/40-75	3 x 400 ± 10%	4-7,5	5,5-10	10 ÷ 16	500	700	250	50
Q3A/75-92	3 x 400 ± 10%	7,5-9,2	10-12,5	16 ÷ 20	500	700	250	50
Q3A/92-110	3 x 400 ± 10%	9,2-11	12,5-15	20 ÷ 25	500	700	250	50
Q3A/110-150	3 x 400 ± 10%	11-15	15-20	22 ÷ 32	500	700	250	50
Q3A/150-185	3 x 400 ± 10%	15-18,5	20-25	28 ÷ 40	500	700	250	50
Q3A/185-220	3 x 400 ± 10%	18,5-22	25-30	36 ÷ 50	500	700	250	50
Q3A/220-300	3 x 400 ± 10%	22-30	30-40	45 ÷ 63	600	900	300	80
Q3A/300-370	3 x 400 ± 10%	30-37	40-50	57 ÷ 75	600	900	300	80
Q3A/370-450	3 x 400 ± 10%	37-45	50-60	70 ÷ 90	600p*	1300p*	300p*	90
Q3A/450-550	3 x 400 ± 10%	45-55	60-75	80 ÷ 108	600p*	1500p*	300p*	120
Q3A/550-750	3 x 400 ± 10%	55-75	75-100	105 ÷ 138	600p*	1500p*	300p*	120
Q3A/750-900	3 x 400 ± 10%	75-90	100-125	138 ÷ 185	800p*	1700p*	400p*	150
Q3A/900-1100	3 x 400 ± 10%	90-110	125-150	175 ÷ 210	800p*	1900p*	400p*	150
Q3A/1100-1320	3 x 400 ± 10%	110-132	150-180	210 ÷ 260	800p*	1900p*	400p*	200
Q3A/1320-1600	3 x 400 ± 10%	132-160	180-218	250 ÷ 305	800p*	1900p*	400p*	200
Q3A/1600-2000	3 x 400 ± 10%	160-200	218-273	290 ÷ 400	800p*	1900p*	400p	230

\* Note : P indicates floor mounted control panel.

## Three-phase Electric Panel

### APPLICATIONS

Protection and control of a three-phase electric pump.

## Q3SF Series



### SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 15 to 200 kW.
- Softstart with torque control.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Dry running indicator light.
- Power - pump running - malfunction LEDs on starter keypanel.
- ON/OFF selector switch for activation of by-pass contactor.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

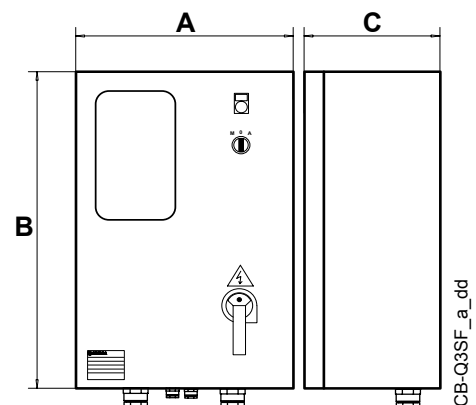
### STATIC STARTER CHARACTERISTICS

Static starter for gradual start-up/ shutdown, featuring:

- keypanel with liquid crystal display showing voltage, absorbed current, cos φ, operating hours, number of starts, last twenty messages on system status (events / alarms).
- Protections against phase failure /phase sequence / frequency out of limits on power supply line.
- Low-voltage protection on auxiliary circuits.
- Protection against starter overtemperature / overload / malfunction.
- Protection against overload / locked rotor / current asymmetry on motor side.
- Short-circuit protection on inputs and outputs.
- Incorporated by-pass contactor.
- Modbus RTU incorporated.
- PTC/Pt100 switch.

### OPTIONAL ACCESSORIES

- KSL series 24 V level kit. Probe module for protection against dry running (set of three electrodes included in the supply).
- Float.
- Pressure switch.



CB-Q3SF\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q3SF/150	3 x 400 ± 10%	15	20	15 ÷ 30	500	700	250	30
Q3SF/185	3 x 400 ± 10%	18,5	25	30 ÷ 37	500	700	250	30
Q3SF/220	3 x 400 ± 10%	22	30	37 ÷ 45	600	800	250	40
Q3SF/300	3 x 400 ± 10%	30	40	42 ÷ 60	600	800	250	40
Q3SF/370	3 x 400 ± 10%	37	50	55 ÷ 72	600	800	250	40
Q3SF/450	3 x 400 ± 10%	45	60	70 ÷ 85	600	800	250	40
Q3SF/550	3 x 400 ± 10%	55	75	80 ÷ 105	600	900	250	50
Q3SF/750	3 x 400 ± 10%	75	100	105 ÷ 142	600	1000	300	60
Q3SF/900	3 x 400 ± 10%	90	125	142 ÷ 170	600	1000	300	60
Q3SF/1100	3 x 400 ± 10%	110	150	170 ÷ 205	600p*	1700p*	400p*	110
Q3SF/1320	3 x 400 ± 10%	132	180	200 ÷ 250	600p*	1700p*	400p*	120
Q3SF/1600	3 x 400 ± 10%	160	218	250 ÷ 300	800p*	1900p*	400p*	150
Q3SF/2000	3 x 400 ± 10%	200	270	300 ÷ 370	800p*	1900p*	400p*	150

\* Note : P indicates floor mounted control panel.

## Electrical panel for drainage pumps single-phase

### QDRM Series

#### APPLICATIONS

Protection and control of one single-phase drainage pump.

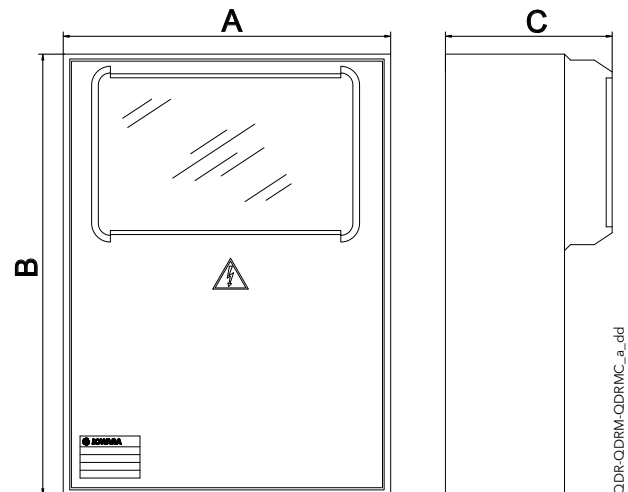


#### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 2,2 kW.
- Direct motor start.
- Protection class: IP55
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electronic control module with test and alarm reset buttons, and power-on, pump running, high level alarm indicator LED's and thermal probe.
- Alarm silencing button.

#### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.



QDR-QDRM-QDRMC\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QDRM/22	1 x 230 $\pm$ 10%	2,2	3	10 ÷ 16	280	370	160	4,1

CB-QDRM-en\_d\_te

## Electrical panel for drainage pumps single-phase

### APPLICATIONS

Protection and control of two single-phase drainage pumps.

## QDRM2 Series

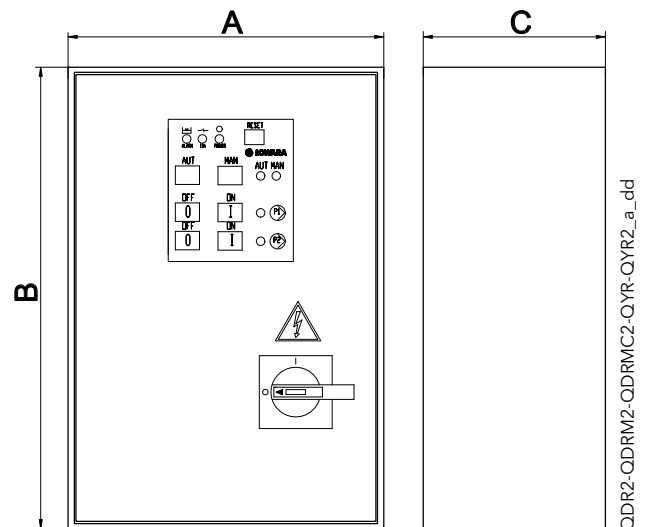


### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 2,2 kW.
- Direct motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Electronic board with power, thermal overload, high level alarm, pump start/stop indicator LEDs.
- Alarm silencing button.

### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.
- Signal relay board kit RILS20 (power, auto/man, start/stop, thermal overload, high level).



QDR2-QDRM2-QDRMC2-QYR-QYR2\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QDRM2/22	1 x 230 $\pm$ 10%	2,2	3	10 $\div$ 16	300	400	150	9,4

CB-QDRM2-en\_c\_te

## Electrical panel for drainage pumps single-phase

### APPLICATIONS

Protection and control of two single-phase drainage pumps.

## QDRMC Series

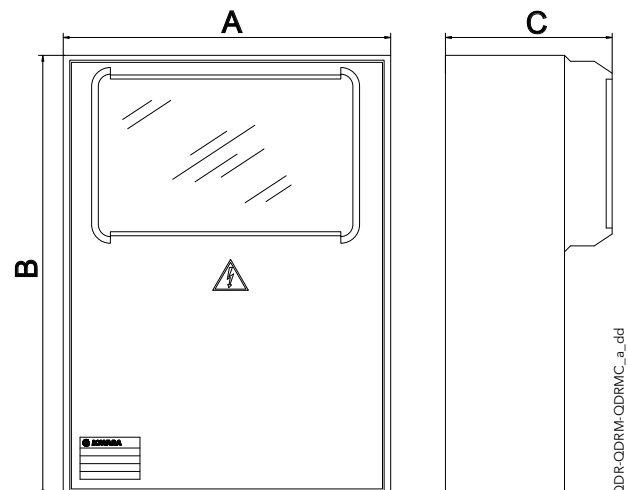


### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V ±10%.
- Frequency: 50/60 Hz.
- Power: 1,5 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electronic control module with test and alarm reset buttons, and power-on, pump running, high level alarm, indicator LED's and thermal probe.
- Alarm silencing button.
- Start and run capacitor incorporated in the control panel.
- TS versions for electropumps 1300 series.

### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.
- Signal relay board kit RILS20 (power, auto/man, start/stop, thermal overload, high level).



QDR-QDRM-QDRMC\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (Kg)	C* (µF)	Cs** (µF)
		kW	HP		A	B	C			
QDRMC/07/TS/1305	1 x 230 ± 10 %	1,5	2	4 ÷ 6,3	280	370	160	4	14	/
QDRMC/15/TS/1310	1 x 230 ± 10 %	1,5	2	6,3 ÷ 10	280	370	160	4	45	W
QDRMC/22/TS/1310	1 x 230 ± 10 %	2,2	3	10 ÷ 16	280	370	160	4	45	150 (n.2: 80+70)

\*C= Run capacitor

\*\*Cs= Start capacitor

CB-QDRMC-en\_h\_tte

## Electrical panel for drainage pumps single-phase

### APPLICATIONS

Protection and control of two single-phase drainage pumps with external capacitor.

## QDRMC2 Series

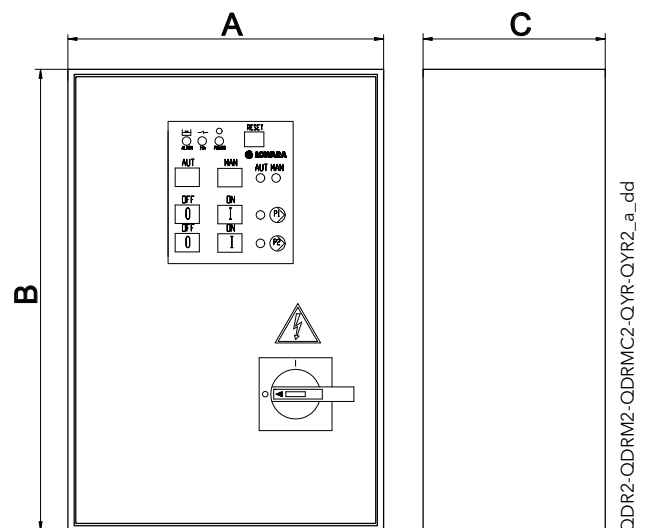


### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 1,5 kW.
- Direct motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electronic board with power, thermal overload, high level alarm, pump start/stop indicator LEDs.
- Start and run capacitor incorporated in the control panel.
- TS versions for electropumps 1300 series.

### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.
- Signal relay board kit RILS20 (power, auto/man, start/stop, thermal overload, high level).



ODR2-QDRM2-QDRMC2-QYR-QYR2\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (Kg)	C* ( $\mu$ F)	Cs** ( $\mu$ F)
		kW	HP		A	B	C			
QDRMC2/07/TS/1305	1 x 230 $\pm$ 10 %	1,5	2	4 $\div$ 6,3	400	400	200	10	14	/
QDRMC2/15/TS/1310	1 x 230 $\pm$ 10 %	1,5	2	6,3 $\div$ 10	400	600	200	10	45	150 (n.2: 80+70)
QDRMC2/22/TS/1310	1 x 230 $\pm$ 10 %	2,2	3	10 $\div$ 16	400	600	200	10	45	150 (n.2: 80+70)

\*C= Run capacitor

\*\*Cs= Start capacitor

CB-QDRMC2-en\_g\_te

## Electrical panel for drainage pumps three-phase

### APPLICATIONS

Protection and control of one three-phase drainage pump.

## QDR Series

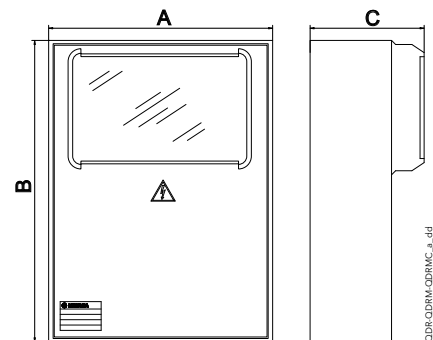


### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,37 to 7,5 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- WD version equipped with oil chamber water sensor control circuit and stator thermal protection.
- TS versions for electropumps 1300 series.
- Electronic control module with test and alarm reset buttons, and power-on, pump running, high level alarm, indicator LED's and thermal probe.
- Alarm silencing button.
- Wall mounted.
- Plastic enclosure.

### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0,3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QDR/03	3 x 400 ± 10 %	0,37	0,5	0,63 ÷ 1	280	370	160	4,1
QDR/05	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	280	370	160	4,1
QDR/07	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	160	4,1
QDR/15	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	280	370	160	4,1
QDR/22	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	280	370	160	4,1
QDR/40	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	280	370	160	4,1
QDR/75	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	280	370	160	4,1
QDR/03/TS	3 x 400 ± 10 %	0,37	0,5	0,63 ÷ 1	280	370	160	4,5
QDR/05/TS	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	280	370	160	4,5
QDR/07/TS	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	160	4,5
QDR/15/TS	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	280	370	160	4,5
QDR/22/TS	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	280	370	160	4,5
QDR/40/TS	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	280	370	160	4,5
QDR/75/TS	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	280	370	160	4,5
QDR/03/WD	3 x 400 ± 10 %	0,37	0,5	0,63 ÷ 1	280	370	160	5
QDR/05/WD	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	280	370	160	5
QDR/07/WD	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	160	5
QDR/15/WD	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	280	370	160	5
QDR/22/WD	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	280	370	160	5
QDR/40/WD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	280	370	160	5
QDR/75/WD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	280	370	160	5

The /WD option also includes the /TS option.

CB-QDR-en\_e\_te

## Electrical panel for drainage pumps three-phase

### APPLICATIONS

Protection and control of two three-phase drainage pumps.

## QDR2 Series

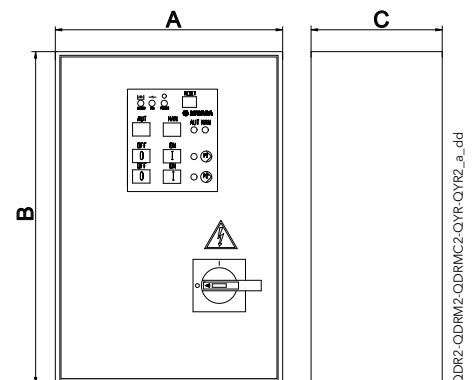


### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,37 to 7,5 kW.
- Direct motor start.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electronic control module with test and alarm reset buttons, and power-on, pump running, high level alarm, indicator LED's and thermal probe.
- Alarm silencing button.
- TS version equipped with stator thermal protection circuit.
- WD version equipped with oil chamber water sensor control circuit and stator thermal protection.

### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0,3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QDR2/03	3 x 400 ± 10 %	0,37	0,5	0,63 ÷ 1	300	400	150	9,4
QDR2/05	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	300	400	150	9,4
QDR2/07	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	300	400	150	9,4
QDR2/15	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	300	400	150	9,4
QDR2/22	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	300	400	150	9,4
QDR2/40	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	300	400	150	9,4
QDR2/75	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	300	400	150	9,4
QDR2/07/TS	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	400	400	200	14
QDR2/15/TS	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	400	200	14
QDR2/22/TS	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	400	400	200	14
QDR2/07/WD	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	400	500	200	18
QDR2/15/WD	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	500	200	18
QDR2/22/WD	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	18

The /WD option also includes the /TS option.

CB-QDR2-en\_e\_te

## Electrical panel for drainage pumps three-phase

### QYR Series

#### APPLICATIONS

Protection and control of one three-phase drainage pump with star-delta start.



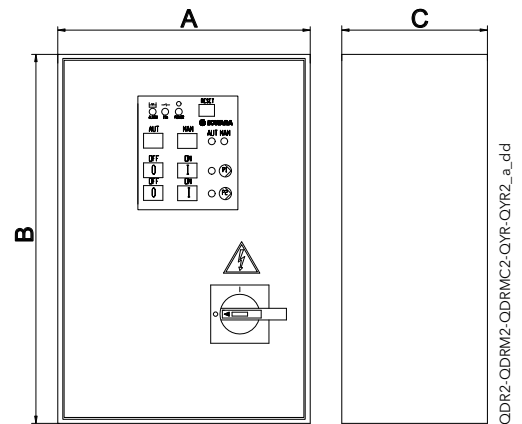
#### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 3 to 75 kW.
- Star-delta motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Electronic board with power, thermal overload, high level alarm, pump start/stop indicator LEDs.
- Alarm silencing button.
- TS versions for electropumps 1300 series.
- WD version equipped with oil chamber water sensor control circuit and stator thermal protection.

#### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.
- Signal relay board kit RILS20 (power, auto/man, start/stop, thermal overload, high level).

## QYR SERIES PANELS ELECTRICAL DATA TABLE



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QYR/40	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	25
QYR/75	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	25
QYR/92	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	25
QYR/110	3 x 400 ± 10 %	11	15	20 ÷ 25	400	500	200	25
QYR/150	3 x 400 ± 10 %	15	20	22 ÷ 32	400	600	200	27
QYR/185	3 x 400 ± 10 %	18,5	25	28 ÷ 40	400	600	200	27
QYR/220	3 x 400 ± 10 %	22	30	36 ÷ 50	500	700	200	32
QYR/300	3 x 400 ± 10 %	30	40	45 ÷ 63	500	700	200	32
QYR/370	3 x 400 ± 10 %	37	50	57 ÷ 75	600	800	250	32
QYR/450	3 x 400 ± 10 %	45	60	70 ÷ 90	600	800	250	32
QYR/550	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	37
QYR/750	3 x 400 ± 10 %	75	100	105 ÷ 138	600p*	1300p*	300p*	70
QYR/22/TS	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	25
QYR/40/TS	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	26
QYR/75/TS	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	26
QYR/92/TS	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	26
QYR/110/TS	3 x 400 ± 10 %	11	15	20 ÷ 25	400	500	200	26
QYR/150/TS	3 x 400 ± 10 %	15	20	22 ÷ 32	400	600	200	27
QYR/185/TS	3 x 400 ± 10 %	18,5	25	28 ÷ 40	400	600	200	27
QYR/220/TS	3 x 400 ± 10 %	22	30	36 ÷ 50	500	700	200	32
QYR/300/TS	3 x 400 ± 10 %	30	40	45 ÷ 63	500	700	200	32
QYR/370/TS	3 x 400 ± 10 %	37	50	57 ÷ 75	600	800	250	33
QYR/450/TS	3 x 400 ± 10 %	45	60	70 ÷ 90	600	800	250	33
QYR/550/TS	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	37
QYR/750/TS	3 x 400 ± 10 %	75	100	105 ÷ 138	600p*	1300p*	300p*	70
QYR/40/WD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	26
QYR/75/WD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	26
QYR/92/WD	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	26
QYR/110/WD	3 x 400 ± 10 %	11	15	20 ÷ 25	400	500	200	26
QYR/150/WD	3 x 400 ± 10 %	15	20	22 ÷ 32	400	600	200	28
QYR/185/WD	3 x 400 ± 10 %	18,5	25	28 ÷ 40	400	600	200	28
QYR/220/WD	3 x 400 ± 10 %	22	30	36 ÷ 50	500	700	200	33
QYR/300/WD	3 x 400 ± 10 %	30	40	45 ÷ 63	500	700	200	33
QYR/370/WD	3 x 400 ± 10 %	37	50	57 ÷ 75	600	800	250	33
QYR/450/WD	3 x 400 ± 10 %	45	60	70 ÷ 90	600	800	250	33
QYR/550/WD	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	38
QYR/750/WD	3 x 400 ± 10 %	75	100	105 ÷ 138	600p*	1300p*	300p*	71

\* Note : P indicates floor mounted control panel.

CB-QYR-en\_f\_te

## Electrical panel for drainage pumps three-phase

### QYR2 Series

#### APPLICATIONS

Protection and control of two three-phase drainage pumps with star-delta start.



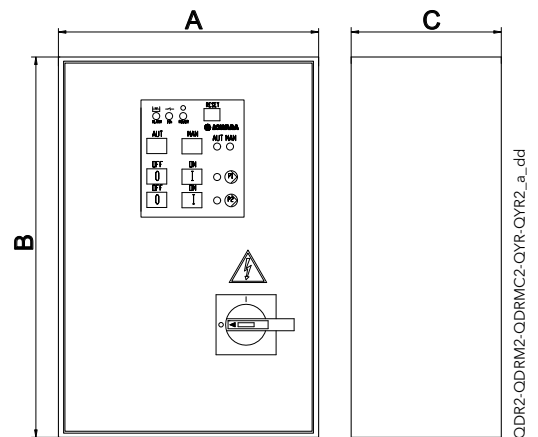
#### SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Power: 3 to 75 kW.
- Star-delta motor start.
- Protection class: IP54.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Metal enclosure.
- Electronic board with power, thermal overload, high level alarm, pump start/stop indicator LEDs.
- Alarm silencing button.
- TS versions for electropumps 1300 series.
- WD version equipped with oil chamber water sensor control circuit and stator thermal protection.

#### OPTIONAL ACCESSORIES

- Audible or visual signalling device, 12 VDC 0.3 A max (two connection terminals provided inside the electrical panel) for high-level alarm.
- Signal relay board kit RILS20 (power, auto/man, start/stop, thermal overload, high level).

## QYR2 SERIES PANELS ELECTRIC DATA TABLE



QDR2-QDRM2-QDRMC2-QYR-QYR2\_a\_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
QYR2/40	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110	3 x 400 ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150	3 x 400 ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185	3 x 400 ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220	3 x 400 ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300	3 x 400 ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370	3 x 400 ± 10 %	37	50	57 ÷ 75	600p*	1300p*	300p*	92
QYR2/450	3 x 400 ± 10 %	45	60	70 ÷ 90	800p*	1700p*	300p*	125
QYR2/550	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125
QYR2/750	3 x 400 ± 10 %	75	100	105 ÷ 138	800p*	1900p*	300p*	148
QYR2/22/TS	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	500	700	200	55
QYR2/40/TS	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75/TS	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92/TS	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110/TS	3 x 400 ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150/TS	3 x 400 ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185/TS	3 x 400 ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220/TS	3 x 400 ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300/TS	3 x 400 ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370/TS	3 x 400 ± 10 %	37	50	57 ÷ 75	600p*	1300p*	300p*	92
QYR2/450/TS	3 x 400 ± 10 %	45	60	70 ÷ 90	800p*	1700p*	300p*	125
QYR2/550/TS	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125
QYR2/750/TS	3 x 400 ± 10 %	75	100	105 ÷ 138	800p*	1900p*	300p*	148
QYR2/40/WD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75/WD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92/WD	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110/WD	3 x 400 ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150/WD	3 x 400 ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185/WD	3 x 400 ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220/WD	3 x 400 ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300/WD	3 x 400 ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370/WD	3 x 400 ± 10 %	37	50	57 ÷ 75	600p*	1300p*	300p*	92
QYR2/450/WD	3 x 400 ± 10 %	45	60	70 ÷ 90	800p*	1700p*	300p*	125
QYR2/550/WD	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125
QYR2/750/WD	3 x 400 ± 10 %	75	100	105 ÷ 138	800p*	1900p*	300p*	148

\* Note : P indicates floor mounted control panel.

CB-QYR2-en\_c\_te

## Level Control Panel three-phase

### QCL5 Series

#### APPLICATIONS

Accessory for electric pump control panels, suitable for tankfilling or drainage applications or for activation of audible or visual alarms.



#### SPECIFICATIONS

- Automatic control through probes.
- Supply voltage: 1 x 230 V ±10% or 1 x 24 V ±10%.
- Frequency: 50/60 Hz.
- Voltage to probes: 15 VAC at 0,5 mA max.
- Switch contact 48 VAC at 3 A max (250 W max).
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electrodes suitable for water at a maximum temperature of 40°C.
- Set of three electrodes included in the supply.

#### OPTIONAL ACCESSORIES

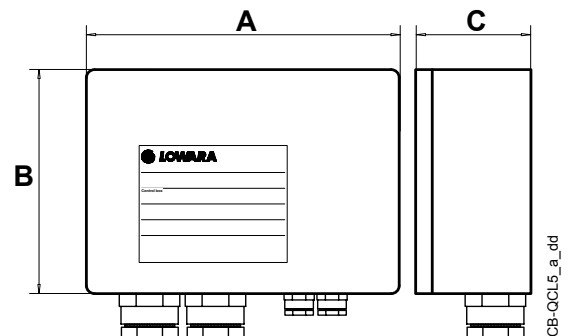
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm <sup>2</sup> )
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

CB-CASEL-en\_c\_te

For connection of the electrodes to the panel we recommend the following cross sections:

- Three-pole cables can be used for short lenghts..
- Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



CB-QCL5\_a\_dd

MODEL	VOLTAGE (v)	POWER SUPPLY		CONTACT RANGE		DIMENSIONS (mm)			WEIGHT (Kg)
		FREQUENCY (Hz)	POWER (W)	V	A	A	B	C	
QCL5/24	1 x 24	50/60	2	48	3	90	130	60	0,5
QCL5/230	1 x 230	50/60	2	48	3	90	130	60	0,5

CB-QCL5-en\_c\_te

# Level Control Panel three-phase QCL10 Series

## APPLICATIONS

Accessory for electric pump control panels, suitable for tankfilling or drainage applications or for activation of audible or visual alarms.



## SPECIFICATIONS

- Automatic control through probes.
- Supply voltage: 1 x 230 V ±10% or 1 x 24 V ±10%.
- Frequency: 50/60 Hz.
- Voltage to probes: 7,5 VAC at 0,4 mA max.
- Protection class: IP55.
- Ambient temperature: -5 to +40 °C (according to EN 61439-1).
- Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 61439-1).
- Wall mounted.
- Plastic enclosure.
- Electrodes suitable for water at a maximum temperature of 60°C.
- Set of three electrodes included in the supply.

## OPTIONAL ACCESSORIES

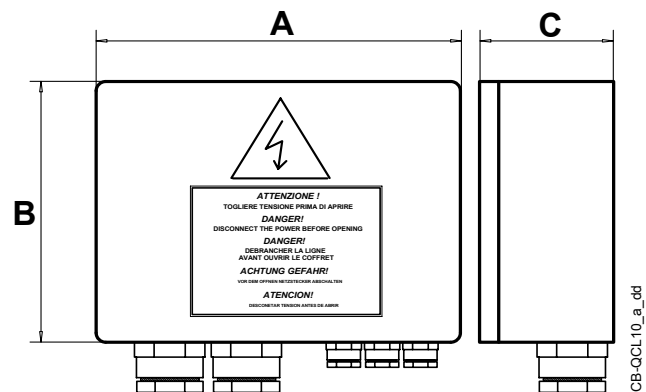
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm <sup>2</sup> )
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

For connection of the electrodes to the panel we recommend the following cross sections:

- Three-pole cables can be used for short lengths..
- Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.

CB-CASEL-en\_c\_te



MODEL	POWER SUPPLY		CONTACTOR RANGE		DIMENSIONS (mm)			WEIGHT (kg)
	MAIN (V)	SECONDARY (V)	(V)	(A)	A	B	C	
QCL10/24	1 x 230	1 x 24	230	9	170	170	130	1
QCL10/230	1 x 230	1 x 24	230	9	170	170	130	1

CB-QCL10-en\_c\_te



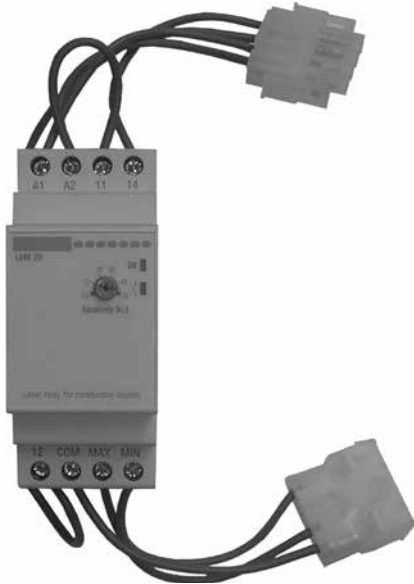
# ACCESSORIES

## Kit 24 V Level Probe

## KSL Series

### APPLICATIONS

Accessory for Lowara electric panels.



### SPECIFICATIONS

- Electronic module for use of probes as protection against dry running.
- Supply voltage: 1 x 24 V  $\pm$ 10%.
- Frequency: 50/60 Hz.
- Absorbed power: 3,5 VA max.
- Voltage to probes: 7,5 VAC at 0,4 mA max.
- Switch contact 24 VAC at 5 A max (250 W max).
- Designed for installation on Lowara electric panels featuring DIN bar.
- Electrodes suitable for water at a maximum temperature of 60°C.

### CONSTRUCTION CHARACTERISTICS

- Module made of plastic material with DIN bar attachment.
- Cables with quick plug-in connectors.
- Set of three electrodes included in the supply.
- Electrodes with nylon 6 body, stainless steel sensitive element brass washer and nitrile rubber seal.

### OPTIONAL ACCESSORIES

- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm <sup>2</sup> )
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

CB-CASEL-en\_c\_te

For connection of the electrodes to the panel we recommend the following cross sections:

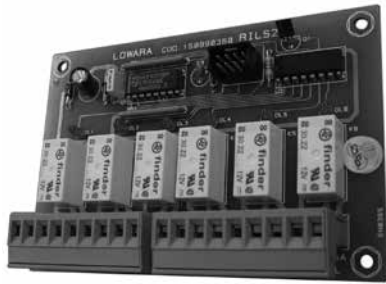
- Three-pole cables can be used for short lenghts..
- Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.

**Electronic board**

**APPLICATIONS**

Accessory for Lowara electric panels.  
(QYR, QDRM2, QDRMC2, QDR2, QYR2).

**KIT RILS20 Series**



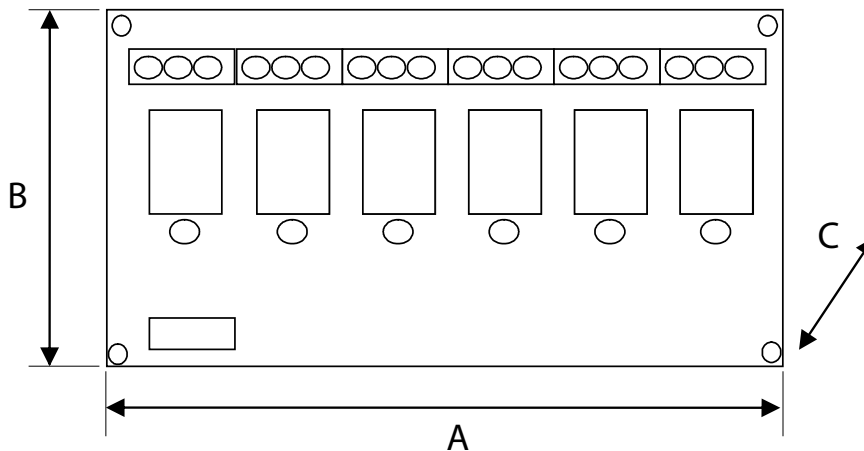
**SPECIFICATIONS**

- 12 VDC power input from motherboard.
- Six low profile 12 VDC relays with 1A 230 Vac exchange contact.
- Indicator LED's available for each relay.
- Available signals:  
power-on, manual/automatic mode, pump 1 running, pump 2 running, thermal overload, level alarm.
- Assembly with board guides as well as 4 holes for flat-mounting on uprights.
- Customer-side output connections with removable clamp.

**PRODUCT FEATURES**

Complete electronic board providing clean system status contacts. Can be connected, via an 8-way serial cable with sealed plug, to boards SM20C, SDR20B (1000 mm long cable supplied). 1500 mm long cable available on request.

**Maximun dimensions:  
A=112 mm, B=80 mm, C=22 mm.**



**Accessories kit  
Q-smart**

**APPLICATIONS**

Accessory for Lowara Q-smart electric panels.

**MODBUS Q-SMART MODULE Series**

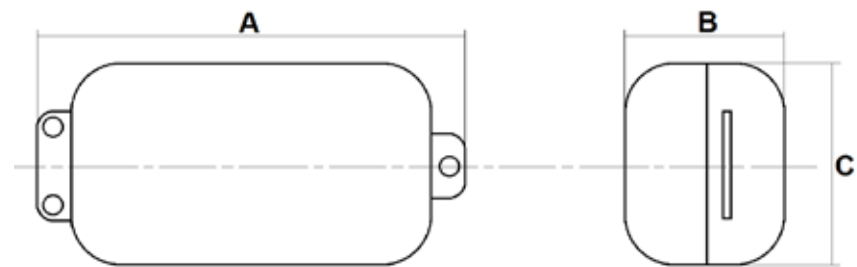


**SPECIFICATIONS**

- Maximum dimensions: A=67 mm, B=24 mm, C=30 mm.

**PRODUCT FEATURES**

Interface to connect the Q-Smart to the devices for data recording and to the plant monitoring and supervision systems.



**6CP Q-SMART MODULE Series**

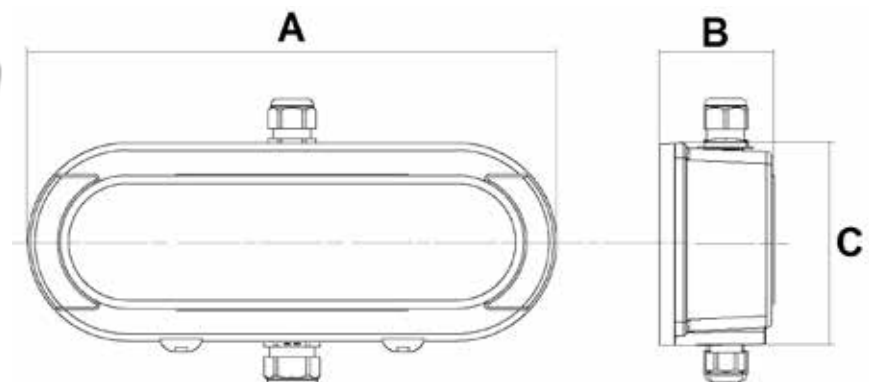


**SPECIFICATIONS**

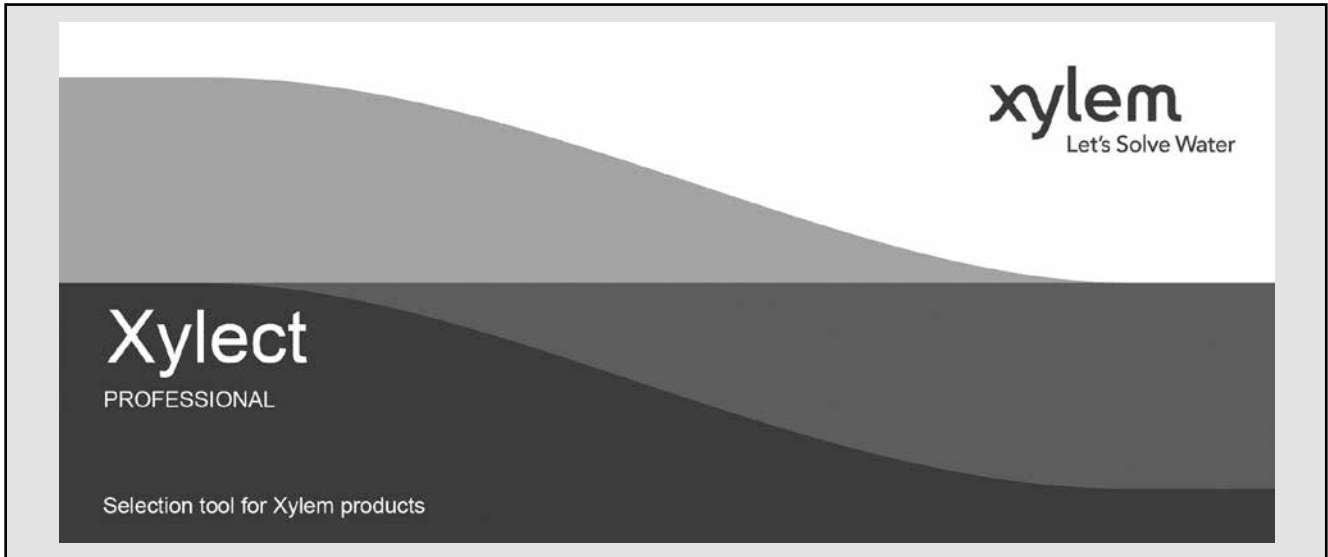
- 12 VDC power input from motherboard.
- Six low profile 12 VDC relays with 1A 230 Vac exchange contact.
- Indicator LED's available for each relay.
- Signals available configurable directly from the Q-Smart
- Assembly with board guides.
- Maximum dimensions: A=240 mm, B=67 mm, C=90 mm.

**PRODUCT FEATURES**

Complete electric schedule to provide the free voltage contacts about the state of the system. Usable with RJ45 cable L=1000 mm included in the package).



## FURTHER PRODUCT SELECTION AND DOCUMENTATION Xylect™



Xylect™ is pump solution selection software with an extensive online database of product information across the entire Lowara range of pumps and related products, with multiple search options and helpful project management facilities. The system holds up-to-date product information on thousands of products and accessories.

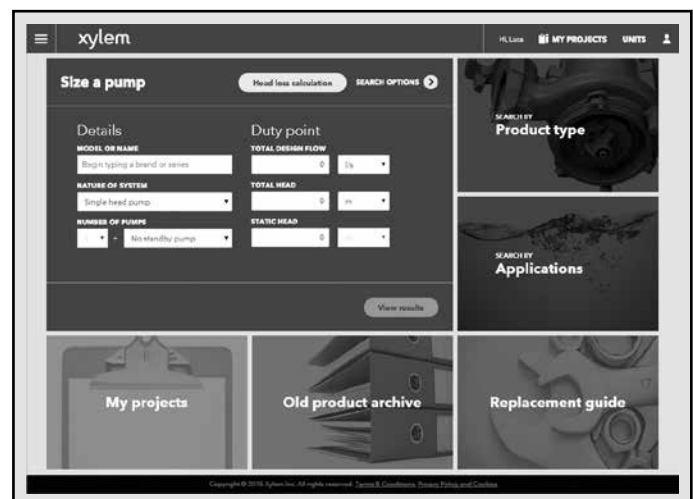
The possibility to search by applications and the detailed information output given makes it easy to make the optimal selection without having detailed knowledge about the Lowara products.

The search can be made by:

- Application
- Product type
- Duty point

Xylect™ gives a detailed output:

- List with search results
- Performance curves (flow, head, power, efficiency, NPSH)
- Motor data
- Dimensional drawings
- Options
- Data sheet printouts
- Document downloads incl dxf files



The search by application guides users not familiar with the product range to the right choice.

## FURTHER PRODUCT SELECTION AND DOCUMENTATION

### Xylect™



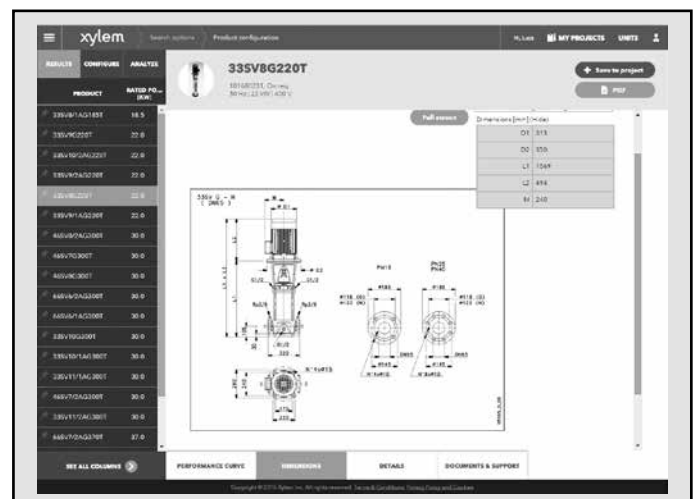
The detailed output makes it easy to select the optimal pump from the given alternatives.

The best way to work with Xylect™ is to create a personal account. This makes it possible to:

- Set own standard units
- Create and save projects
- Share projects with other Xylect™ users

Every registered user has a proper space, where all projects are saved.

For more information about Xylect™ please contact our sales network or visit [www.xylect.com](http://www.xylect.com).



Dimensional drawings appear on the screen and can be downloaded in dxf format.







# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services, and agricultural settings. With its October 2016 acquisition of Sensus, Xylem added smart metering, network technologies and advanced data analytics for water, gas and electric utilities to its portfolio of solutions. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com).**



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