



CONTROL PANELS

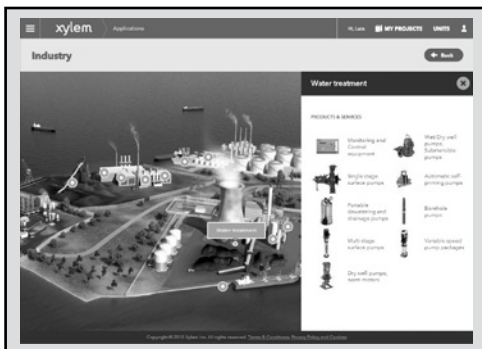
RANGE OF PANELS FOR CONTROL AND
PROTECTION OF LOWARA ELECTRIC PUMPS

Xylect

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For more information, please, see page 37-38.

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Single-phase Electric Panel

QSM Series

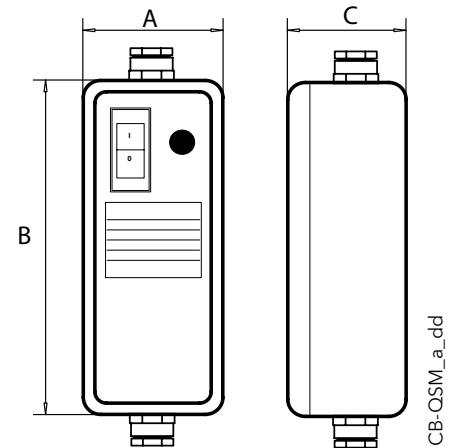
APPLICATIONS

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) μ 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

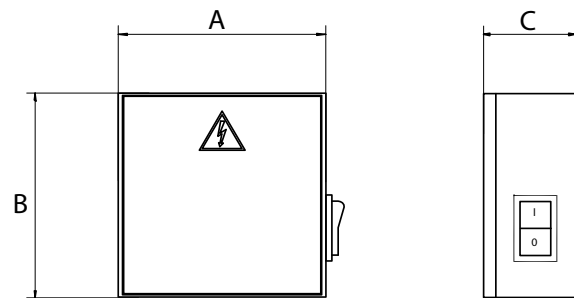
APPLICATIONS

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.



CB-QPC_b_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) μ 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.

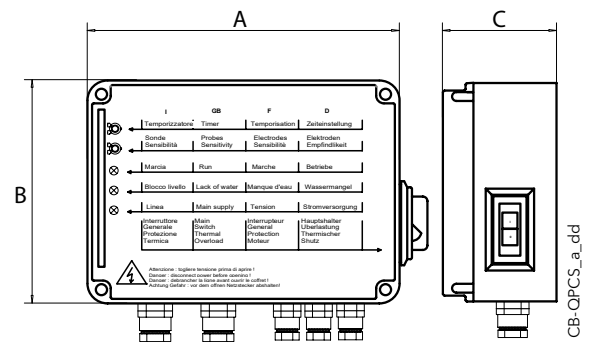


SPECIFICATIONS

- 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) μ 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

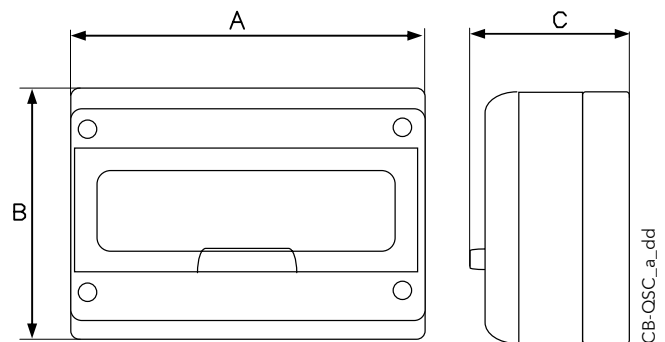
APPLICATIONS

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 \pm 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) μ 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

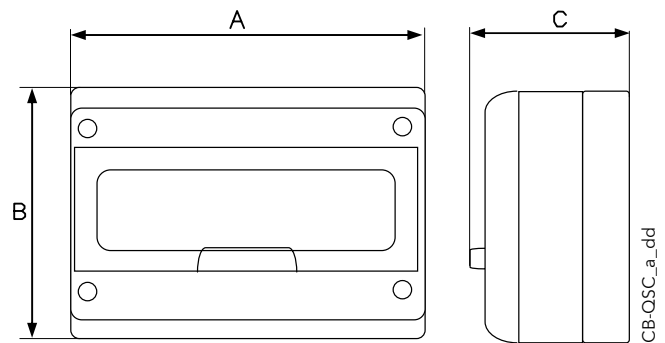
Protection and control of a single-phase submersible electric pump for 4" wells.

QSC 60Hz Series



SPECIFICATIONS

- Main switch for manual control.
- Supply voltage: 1 x 230 V \pm 10%.
- Frequency: 60 Hz.
- Power: 0,37 to 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.
- Incorporated capacitor.
- Main switch with manual-reset thermal protection.



CB-QSC_a_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) μ 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.

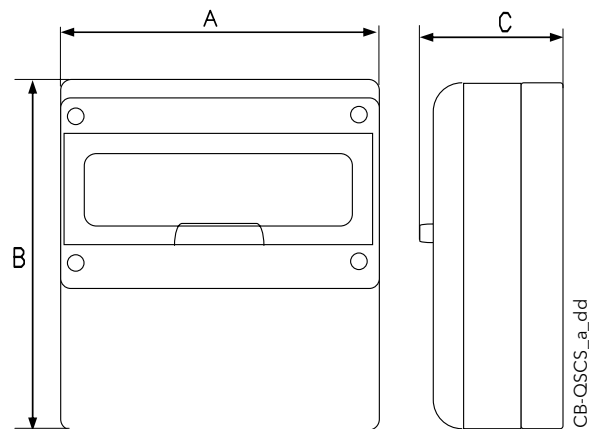


SPECIFICATIONS

- Automatic control through an external enable contact.
- Supply voltage: 1 x 230 V ±10%.
- Frequency: 50 Hz.
- Power: 0,37 to 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 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).



MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	CAPACITOR (450 V) μ 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_tte

Single-phase Electric Panel

APPLICATIONS

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

QSCS 60Hz Series

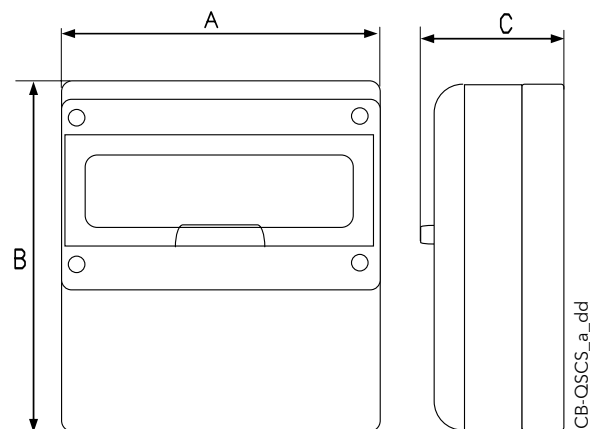


SPECIFICATIONS

- Automatic control through an external enable contact.
- Supply voltage: 1 x 230 V \pm 10%.
- Frequency: 60 Hz.
- Power: 0,37 to 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.
- 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) μ 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

APPLICATIONS

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

Q-SMART Series

VERSATILE

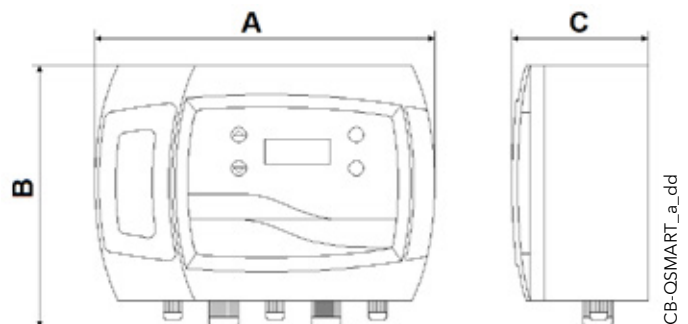
50 different combinations available within this one product that can be used for controlling pressure boosting or sewage applications. Pre-programmed packages that decrease installation and commissioning costs.

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	12	C 32 A Icn 4,5 KA	262	218	96	1,5
Q-SMART 20	2	1~ 230 \pm 10%	230	12	C 32 A Icn 4,5 KA	262	218	96	1,5

CB-QSMART-en_b_te

Three-phase Electric Panel

Q1D Series

APPLICATIONS

Protection and control of a three-phase electric pump.

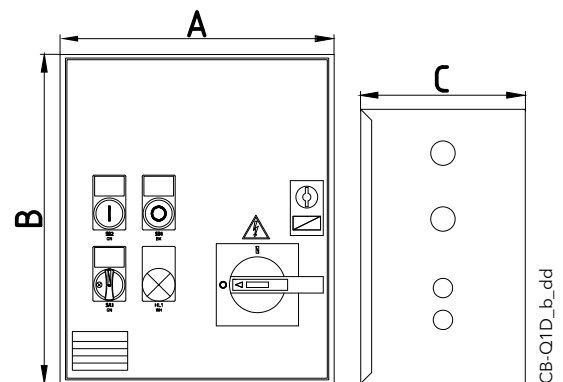


SPECIFICATIONS

- 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: 0,37 to 15 kW.
- Direct motor start.
- Short-circuit and overload protection.
- 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.
- Metal enclosure.
- Power and pump 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.
- Free voltage contacts of pump running and thermal overload

OPTIONAL ACCESSORIES

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



CB-Q1D_b_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (KG)
		kW	HP		A	B	C	
Q1D/03-05	3 x 400 ± 10%	0,37-0,55	0,55-0,75	1 ÷ 1,6	250	300	150	7,5
Q1D/07	3 x 400 ± 10%	0,75	1	1,6 ÷ 2,5	250	300	150	7,5
Q1D/11-15	3 x 400 ± 10%	1,1-1,5	1,5-2	2,5 ÷ 4	250	300	150	7,5
Q1D/22	3 x 400 ± 10%	2,2	3	4 ÷ 6,3	250	300	150	7,5
Q1D/30-40	3 x 400 ± 10%	3-4	4-5,5	6,3 ÷ 10	250	300	150	7,5
Q1D/55	3 x 400 ± 10%	5,5	7,5	10 ÷ 12	300	400	200	8,5
Q1D/75	3 x 400 ± 10%	7,5	10	12 ÷ 16	300	400	200	8,5
Q1D/92	3 x 400 ± 10%	9,2	12,5	16 ÷ 20	300	400	200	9
Q1D/110	3 x 400 ± 10%	11	15	20 ÷ 25	300	400	200	9
Q1D/150	3 x 400 ± 10%	15	20	25 ÷ 32	300	400	200	9

CB-Q1D-en b te

Three-phase Electric Panel

Q3D Series

APPLICATIONS

Protection and control of a three-phase electric pump.

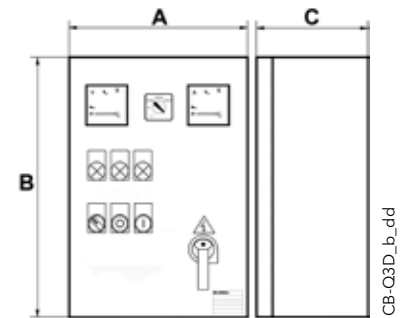


SPECIFICATIONS

- 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: 0,37 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 switch.
- 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/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	25 ÷ 32	300	400	200	20
Q3D/110-150	3 x 400 ± 10%	11-15	15-20	30 ÷ 42	400	500	200	20
Q3D/150-185	3 x 400 ± 10%	15-18,5	20-25	40 ÷ 54	400	500	200	20
Q3D/185-220	3 x 400 ± 10%	18,5-22	25-30	52 ÷ 65	400	600	200	27
Q3D/220-300	3 x 400 ± 10%	22-30	30-40	62 ÷ 73	400	600	200	27
Q3D/300-370	3 x 400 ± 10%	30-37	40-50	70 ÷ 80	400	600	200	27

CB-Q3D-en_c_te

Three-phase Electric Panel

APPLICATIONS

Protection and control of a three-phase electric pump.

Q3Y Series

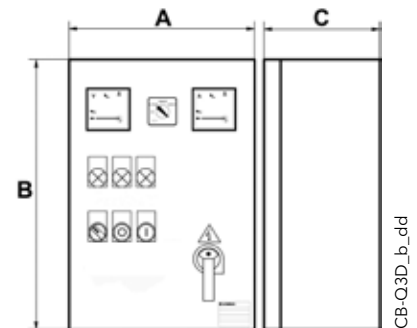


SPECIFICATIONS

- Manual control through start and stop push button.
- Automatic control through an external enable contact.
- Supply voltage: 3 x 400 V \pm 10%.
- Frequency: 50/60 Hz.
- 24 VAC low voltage auxiliary circuit.
- Power: 4 to 250 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 switch.
- 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 \pm 10%	4-7,5	5,5-10	10 \div 16	400	500	200	23
Q3Y/75-92	3 x 400 \pm 10%	7,5-9,2	10-12,5	16 \div 20	400	500	200	23
Q3Y/92-110	3 x 400 \pm 10%	9,2-11	12,5-15	20 \div 25	400	500	200	23
Q3Y/110-150	3 x 400 \pm 10%	11-15	15-20	25 \div 32	400	600	200	23
Q3Y/150-185	3 x 400 \pm 10%	15-18,5	20-25	30 \div 42	400	600	200	23
Q3Y/185-220	3 x 400 \pm 10%	18,5-22	25-30	40 \div 54	500	700	200	32
Q3Y/220-300	3 x 400 \pm 10%	22-30	30-40	52 \div 65	500	700	200	32
Q3Y/300-370	3 x 400 \pm 10%	30-37	40-50	62 \div 73	600	800	250	68
Q3Y/370-450	3 x 400 \pm 10%	37-45	50-60	70 \div 80	600	800	250	80
Q3Y/450-550	3 x 400 \pm 10%	45-55	60-75	80 \div 108	600	900	250	80
Q3Y/550-750	3 x 400 \pm 10%	55-75	75-100	105 \div 138	600p*	1300p*	300p*	109
Q3Y/750-900	3 x 400 \pm 10%	75-90	100-125	138 \div 185	600p*	1300p*	300p*	109
Q3Y/900-1100	3 x 400 \pm 10%	90-110	125-150	175 \div 210	600p*	1500p*	300p*	120
Q3Y/1100-1320	3 x 400 \pm 10%	110-132	150-180	210 \div 260	800p*	1700p*	400p*	130
Q3Y/1320-1600	3 x 400 \pm 10%	132-160	180-218	250 \div 305	800p*	1700p*	400p*	130
Q3Y/1600-2000	3 x 400 \pm 10%	160-200	218-273	290 \div 400	800p*	1900p*	400p*	140
Q3Y/2000-2500	3 x 400 \pm 10%	200-250	273-339	400 \div 460	800p*	1900p*	400p*	140

* Note : P indicates floor mounted control panel.

Three-phase Electric Panel

APPLICATIONS

Protection and control of a three-phase electric pump.

Q3I Series

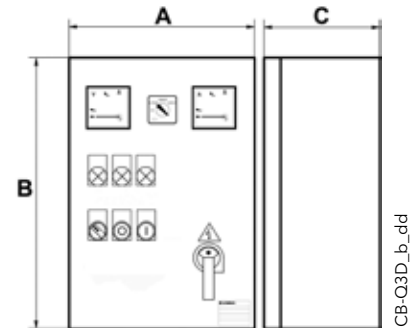


SPECIFICATIONS

- 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: 4 to 250 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 switch.
- 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	25 ÷ 32	500	700	250	50
Q3I/150-185	3 x 400 ± 10%	15-18,5	20-25	30 ÷ 42	500	700	250	50
Q3I/185-220	3 x 400 ± 10%	18,5-22	25-30	40 ÷ 54	500	700	250	50
Q3I/220-300	3 x 400 ± 10%	22-30	30-40	52 ÷ 65	500	700	250	65
Q3I/300-370	3 x 400 ± 10%	30-37	40-50	62 ÷ 73	500	700	250	65
Q3I/370-450	3 x 400 ± 10%	37-45	50-60	70 ÷ 80	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
Q3I/2000-2500	3 x 400 ± 10%	200-250	273-339	400 ÷ 460	1000p*	1900p*	500p*	180

* Note : P indicates floor mounted control panel.

Three-phase Electric Panel

APPLICATIONS

Protection and control of a three-phase electric pump.

Q3A Series

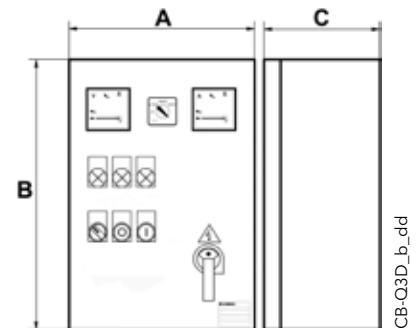


SPECIFICATIONS

- 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: 4 to 250 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 switch.
- 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	25 ÷ 32	500	700	250	50
Q3A/150-185	3 x 400 ± 10%	15-18,5	20-25	30 ÷ 42	500	700	250	50
Q3A/185-220	3 x 400 ± 10%	18,5-22	25-30	40 ÷ 54	500	700	250	50
Q3A/220-300	3 x 400 ± 10%	22-30	30-40	52 ÷ 65	600	900	300	80
Q3A/300-370	3 x 400 ± 10%	30-37	40-50	62 ÷ 73	600	900	300	80
Q3A/370-450	3 x 400 ± 10%	37-45	50-60	70 ÷ 80	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*	500p*	230
Q3A/2000-2500	3 x 400 ± 10%	200-250	273-339	400 ÷ 460	1000p*	1900p*	500p*	250

* Note : P indicates floor mounted control panel.

CB-Q3A-en_e_te

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.
- Ready for installation of dry running control float or pressure switch (to be ordered separately). Can be equipped with electronic protection module with electrodes.

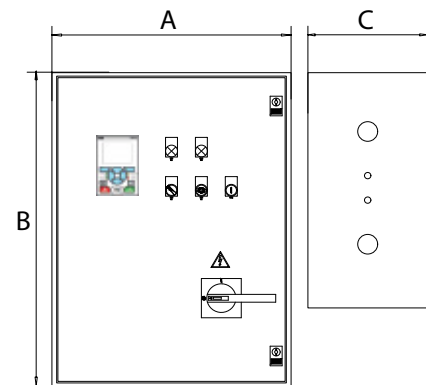
STATIC STARTER CHARACTERISTICS

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 switch.
- Pressure switch.



CB-Q3SF_b_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	1000p*	1900p*	400p*	180

* Note : P indicates floor mounted control panel.

Electrical panel for drainage pumps single-phase

APPLICATIONS

Protection and control of one single-phase drainage pump.

QDRM Series

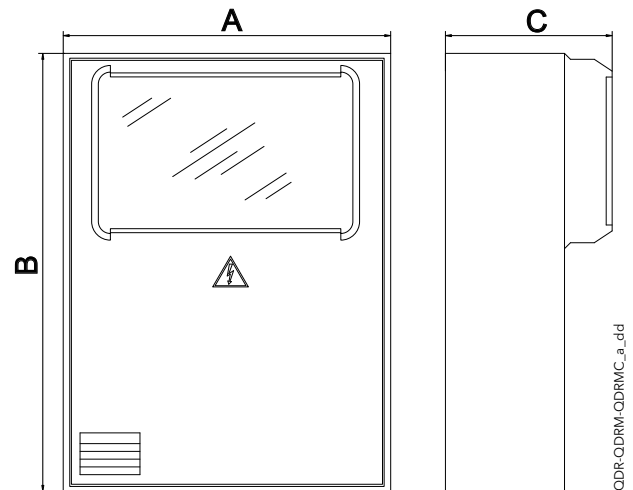


SPECIFICATIONS

- 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: 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

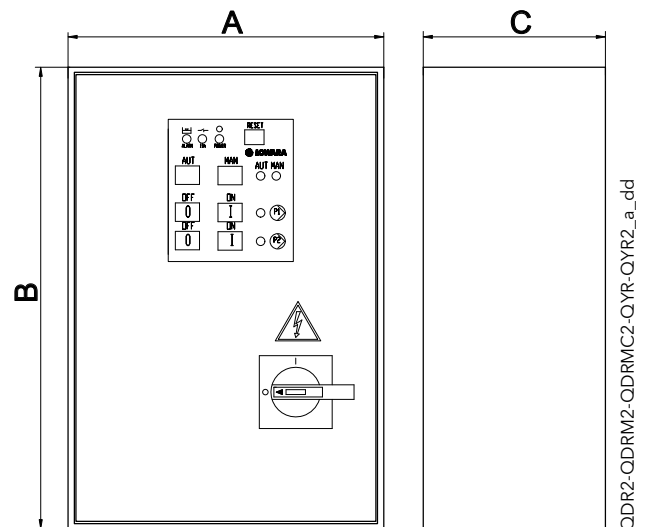


SPECIFICATIONS

- 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 one single-phase drainage pump.

QDRMC Series

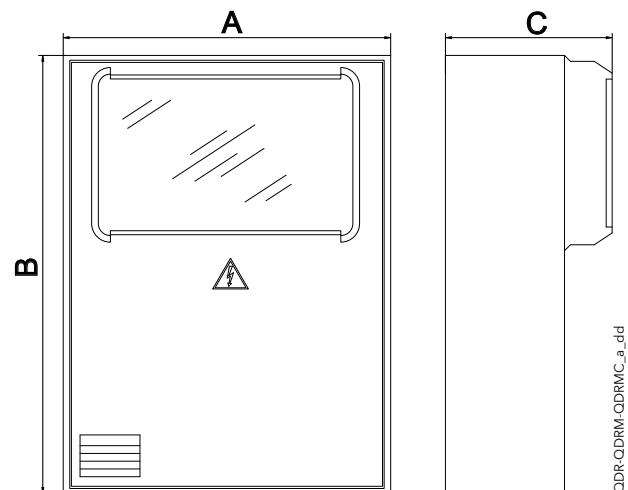


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V \pm 10%.
- Frequency: 50/60 Hz.
- Power: 0,75 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.
- 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.

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)	C* (μ F)	Cs** (μ F)
		kW	HP		A	B	C			
QDRMC/07/TS/1305	1 x 230 \pm 10 %	0,75	1	4 \div 6,3	280	370	160	4	14	/
QDRMC/15/TS/1310	1 x 230 \pm 10 %	1,5	2	6,3 \div 10	280	370	160	4	45	150 (n.2: 80+70)
QDRMC/22/TS/1310	1 x 230 \pm 10 %	2,2	3	10 \div 16	280	370	160	4	45	150 (n.2: 80+70)

*C= Run capacitor

**Cs= Start capacitor

CB-QDRMC-en_i_te

Electrical panel for drainage pumps single-phase

APPLICATIONS

Protection and control of one single-phase drainage pump.

QDRMC/LD Series

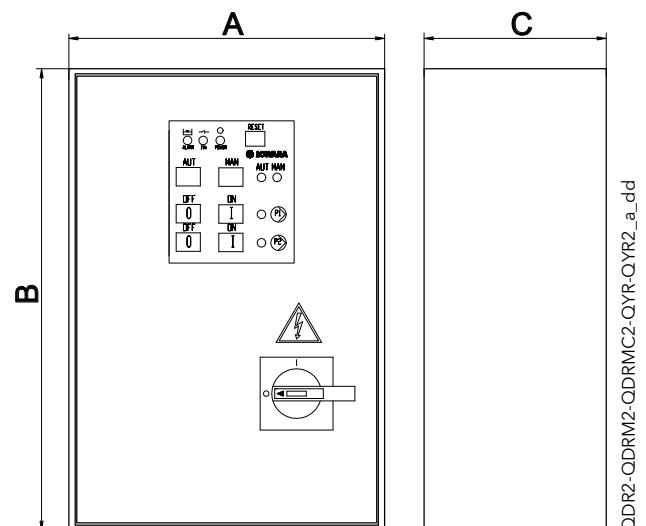


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,75 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.
- Metal 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.
- LD 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).



QDR2-QDRM2-QDRMC2-QYR-QYR2_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/LD/1305	1 x 230 ± 10 %	0.75	1	4 ÷ 6,3	400	400	200	8	14	/
QDRMC/15/LD/1310	1 x 230 ± 10 %	1,5	2	6,3 ÷ 10	400	400	200	8	45	150 (n.2: 80+70)
QDRMC/22/LD/1310	1 x 230 ± 10 %	2,2	3	10 ÷ 16	400	400	200	8	45	150 (n.2: 80+70)

*C= Run capacitor

**Cs= Start capacitor

CB-QDRMCLD-en_a_te

Electrical panel for drainage pumps single-phase

APPLICATIONS

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

QDRMC2 Series

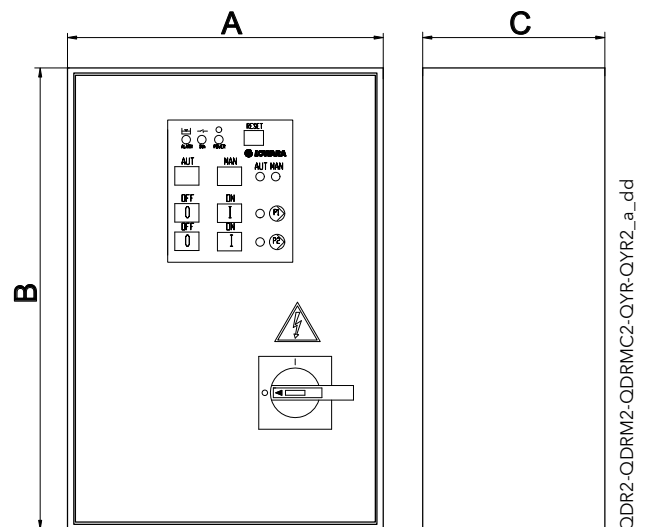


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 1 x 230 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,75 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.
- Metal 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.
- LD 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).



QDR2-QDRM2-QDRMC2-QYR-QYR2_a_dd

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (Kg)	C* (μF)	Cs** (μF)
		kW	HP		A	B	C			
QDRMC2/07/TS/1305	1 x 230 ± 10 %	0,75	1	4 ÷ 6,3	400	600	200	16	14	/
QDRMC2/15/TS/1310	1 x 230 ± 10 %	1,5	2	6,3 ÷ 10	400	600	200	20	45	150 (n.2: 80+70)
QDRMC2/22/TS/1310	1 x 230 ± 10 %	2,2	3	10 ÷ 16	400	600	200	20	45	150 (n.2: 80+70)
QDRMC2/07/LD/1305	1 x 230 ± 10 %	0.75	1	4 ÷ 6,3	400	600	200	18	14	/
QDRMC2/15/LD/1310	1 x 230 ± 10 %	1,5	2	6,3 ÷ 10	400	600	200	22	45	150 (n.2: 80+70)
QDRMC2/22/LD/1310	1 x 230 ± 10 %	2,2	3	10 ÷ 16	400	600	200	22	45	150 (n.2: 80+70)

*C= Run capacitor

**Cs= Start capacitor

CB-QDRMC2-en_h_te

Electrical panel for drainage pumps three-phase

APPLICATIONS

Protection and control of one three-phase drainage pump.

QDR Series

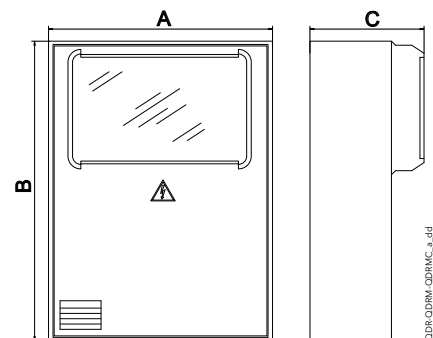


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,55 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.



QDR-QDRM-QDRMC_01.dwg

MODEL	RATED VOLTAGE (V)	RATED POWER		RATED CURRENT (A)	DIMENSIONS (mm)			WEIGHT (kg)
		kW	HP		A	B	C	
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/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

CB-QDR-en_f_te

Electrical panel for drainage pumps three-phase

APPLICATIONS

Protection and control of one three-phase drainage pump.

QDR/LD Series

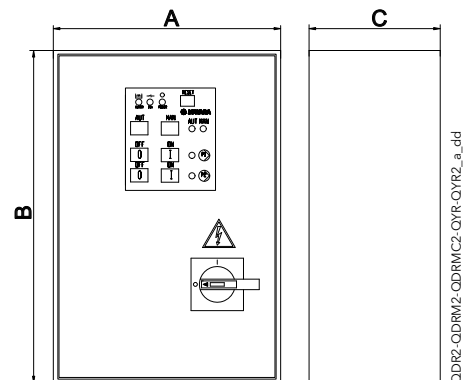


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,55 to 7,5 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.
- Metal 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.
- LD 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).



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	
QDR/05/LD	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	400	500	200	18
QDR/07/LD	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	400	500	200	18
QDR/15/LD	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	500	200	18
QDR/22/LD	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	18
QDR/40/LD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	18
QDR/75/LD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	18

CB-QDRLD-en_a_te

Electrical panel for drainage pumps three-phase

APPLICATIONS

Protection and control of two three-phase drainage pumps.

QDR2 Series

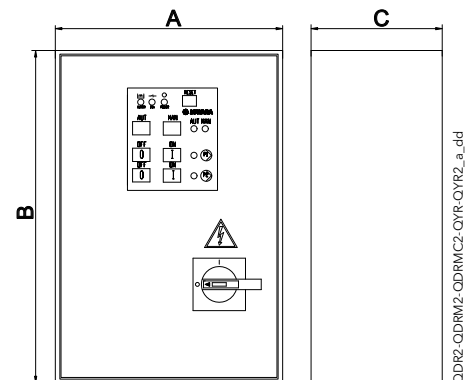


SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V ±10%.
- Frequency: 50/60 Hz.
- Power: 0,55 to 7,5 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.
- Metal 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.
- LD 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).



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	
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
QDR2/05/TS	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	400	400	200	14
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
QDR2/40/TS	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	400	200	14
QDR2/75/TS	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	400	200	14
QDR2/05/LD	3 x 400 ± 10 %	0,55	0,75	1 ÷ 1,6	400	500	200	18
QDR2/07/LD	3 x 400 ± 10 %	0,75	1	1,6 ÷ 2,5	400	500	200	18
QDR2/15/LD	3 x 400 ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	500	200	18
QDR2/22/LD	3 x 400 ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	18
QDR2/40/LD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	18
QDR2/75/LD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	18

The /LD option also includes the /TS option.

CB-QDR2-en_f_te

Electrical panel for drainage pumps three-phase

QYR Series

APPLICATIONS

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



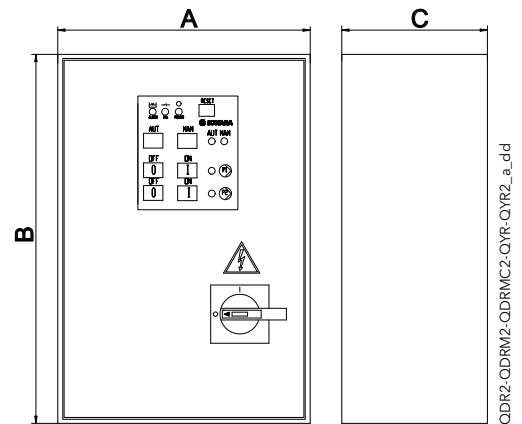
SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V \pm 10%.
- Frequency: 50/60 Hz.
- Power: 3 to 55 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.
- LD 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	25 ÷ 32	400	600	200	27
QYR/185	3 x 400 ± 10 %	18,5	25	30 ÷ 42	400	600	200	27
QYR/220	3 x 400 ± 10 %	22	30	40 ÷ 54	500	700	200	32
QYR/300	3 x 400 ± 10 %	30	40	52 ÷ 65	500	700	200	32
QYR/370	3 x 400 ± 10 %	37	50	62 ÷ 73	600	800	250	32
QYR/450	3 x 400 ± 10 %	45	60	70 ÷ 80	600	800	250	32
QYR/550	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	37
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	25 ÷ 32	400	600	200	27
QYR/185/TS	3 x 400 ± 10 %	18,5	25	30 ÷ 42	400	600	200	27
QYR/220/TS	3 x 400 ± 10 %	22	30	40 ÷ 54	500	700	200	32
QYR/300/TS	3 x 400 ± 10 %	30	40	52 ÷ 65	500	700	200	32
QYR/370/TS	3 x 400 ± 10 %	37	50	62 ÷ 73	600	800	250	33
QYR/450/TS	3 x 400 ± 10 %	45	60	70 ÷ 80	600	800	250	33
QYR/550/TS	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	37
QYR/40/LD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	26
QYR/75/LD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	26
QYR/92/LD	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	26
QYR/110/LD	3 x 400 ± 10 %	11	15	20 ÷ 25	400	500	200	26
QYR/150/LD	3 x 400 ± 10 %	15	20	25 ÷ 32	400	600	200	28
QYR/185/LD	3 x 400 ± 10 %	18,5	25	30 ÷ 42	400	600	200	28
QYR/220/LD	3 x 400 ± 10 %	22	30	40 ÷ 54	500	700	200	33
QYR/300/LD	3 x 400 ± 10 %	30	40	52 ÷ 65	500	700	200	33
QYR/370/LD	3 x 400 ± 10 %	37	50	62 ÷ 73	600	800	250	33
QYR/450/LD	3 x 400 ± 10 %	45	60	70 ÷ 80	600	800	250	33
QYR/550/LD	3 x 400 ± 10 %	55	75	80 ÷ 108	600	900	250	38

* Note - P indicates floor mounted control panel

CR-QYR-en 01 te

Electrical panel for drainage pumps three-phase

QYR2 Series

APPLICATIONS

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



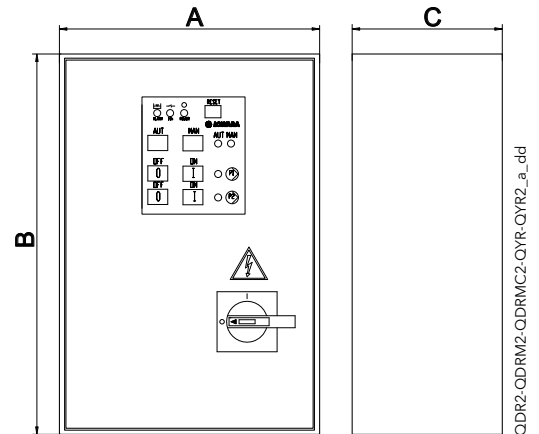
SPECIFICATIONS

- Automatic control through electromechanical floats.
- Power supply voltage: 3 x 400 V \pm 10%.
- Frequency: 50/60 Hz.
- Power: 3 to 55 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.
- LD 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



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	25 ÷ 32	600	800	250	68
QYR2/185	3 x 400 ± 10 %	18,5	25	30 ÷ 42	600	800	250	68
QYR2/220	3 x 400 ± 10 %	22	30	40 ÷ 54	600	900	250	75
QYR2/300	3 x 400 ± 10 %	30	40	52 ÷ 65	600	900	250	75
QYR2/370	3 x 400 ± 10 %	37	50	62 ÷ 73	600	900	250	75
QYR2/450	3 x 400 ± 10 %	45	60	70 ÷ 80	600	900	250	75
QYR2/550	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125
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	25 ÷ 32	600	800	250	68
QYR2/185/TS	3 x 400 ± 10 %	18,5	25	30 ÷ 42	600	800	250	68
QYR2/220/TS	3 x 400 ± 10 %	22	30	40 ÷ 54	600	900	250	75
QYR2/300/TS	3 x 400 ± 10 %	30	40	52 ÷ 65	600	900	250	75
QYR2/370/TS	3 x 400 ± 10 %	37	50	62 ÷ 73	600	900	250	75
QYR2/450/TS	3 x 400 ± 10 %	45	60	70 ÷ 80	600	900	250	75
QYR2/550/TS	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125
QYR2/40/LD	3 x 400 ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75/LD	3 x 400 ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92/LD	3 x 400 ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110/LD	3 x 400 ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150/LD	3 x 400 ± 10 %	15	20	25 ÷ 32	600	800	250	68
QYR2/185/LD	3 x 400 ± 10 %	18,5	25	30 ÷ 42	600	800	250	68
QYR2/220/LD	3 x 400 ± 10 %	22	30	40 ÷ 54	600	900	250	75
QYR2/300/LD	3 x 400 ± 10 %	30	40	52 ÷ 65	600	900	250	75
QYR2/370/LD	3 x 400 ± 10 %	37	50	62 ÷ 73	600	900	250	75
QYR2/450/LD	3 x 400 ± 10 %	45	60	70 ÷ 80	600	900	250	75
QYR2/550/LD	3 x 400 ± 10 %	55	75	80 ÷ 108	800p*	1700p*	300p*	125

* Note : P indicates floor mounted control panel.

CB-QYR2-en_d_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

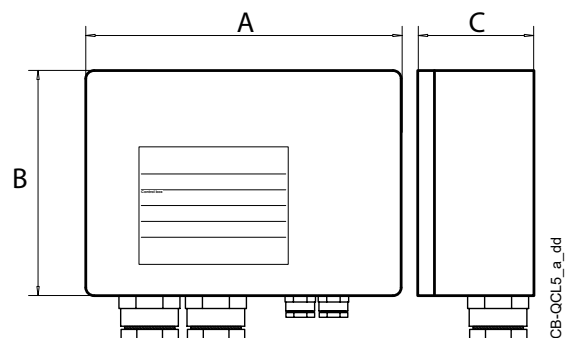
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm ²)
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 FREQUENCY (Hz)	POWER (W)	CONTACT RANGE		DIMENSIONS (mm)			WEIGHT (Kg)
				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

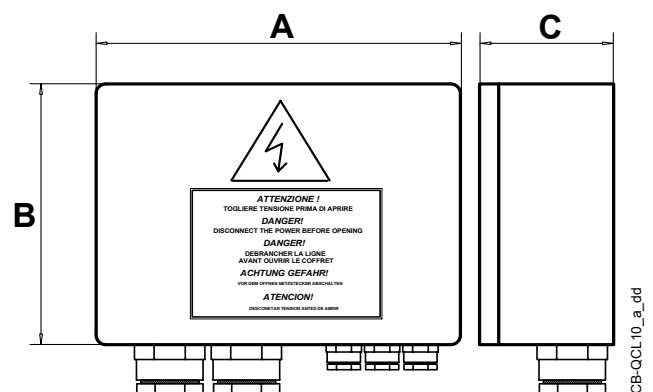
- Drop cable with circular cross section.

LENGHT (m)		CABLE SECTION (mm ²)
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.



CB-QCL10_a_dd

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

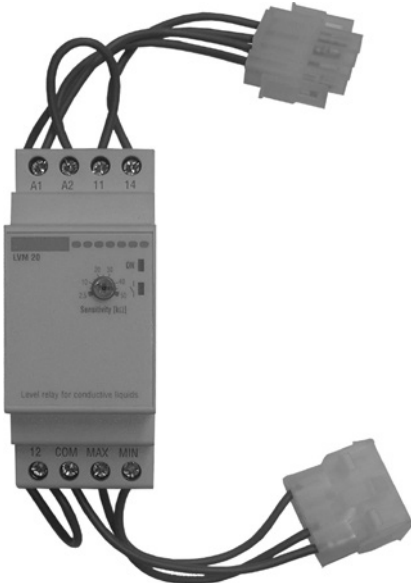
ACCESSORIES

**Kit 24 V
Level Probe**

APPLICATIONS

Accessory for Lowara electric panels.

KSL-LVM Series



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.
- KSL series with level relay and fast crimp connector.
LVM series with level relay only
- 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 ²)
0	50	0,5
50	100	0,75
100	200	1,0
200	400	2,5

CB-CASEL-en_c_te

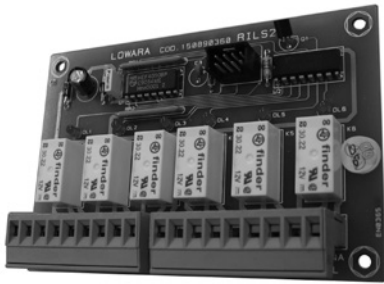
For connection of the electrodes to the panel we recommend the following cross sections:

- 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 **KIT RILS20** Series

APPLICATIONS

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



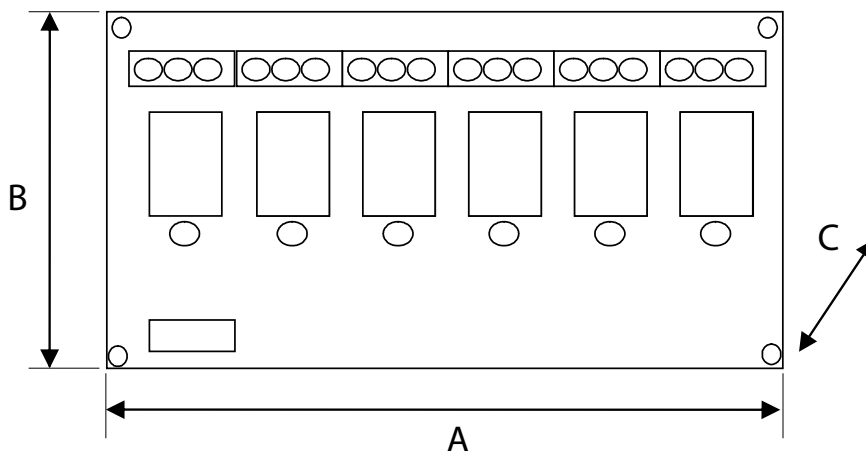
SPECIFICATIONS

- 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.

**Maximum 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

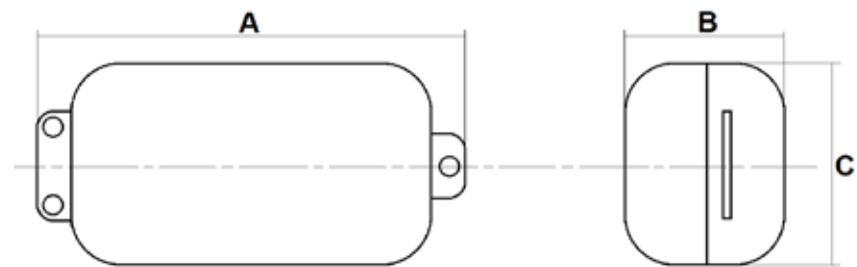


SPECIFICATIONS

- 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

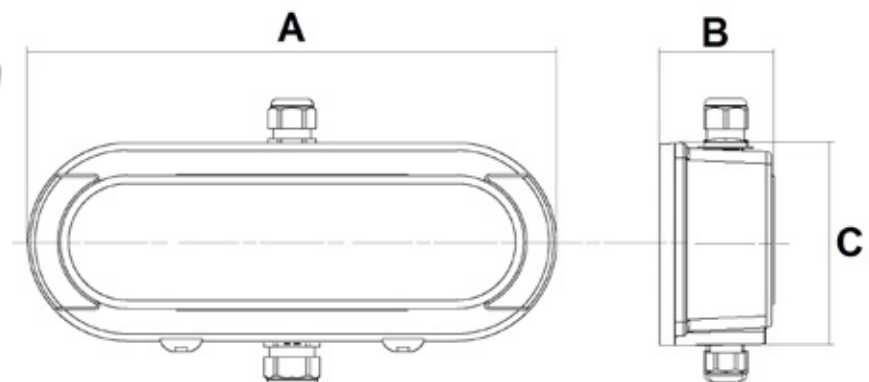


SPECIFICATIONS

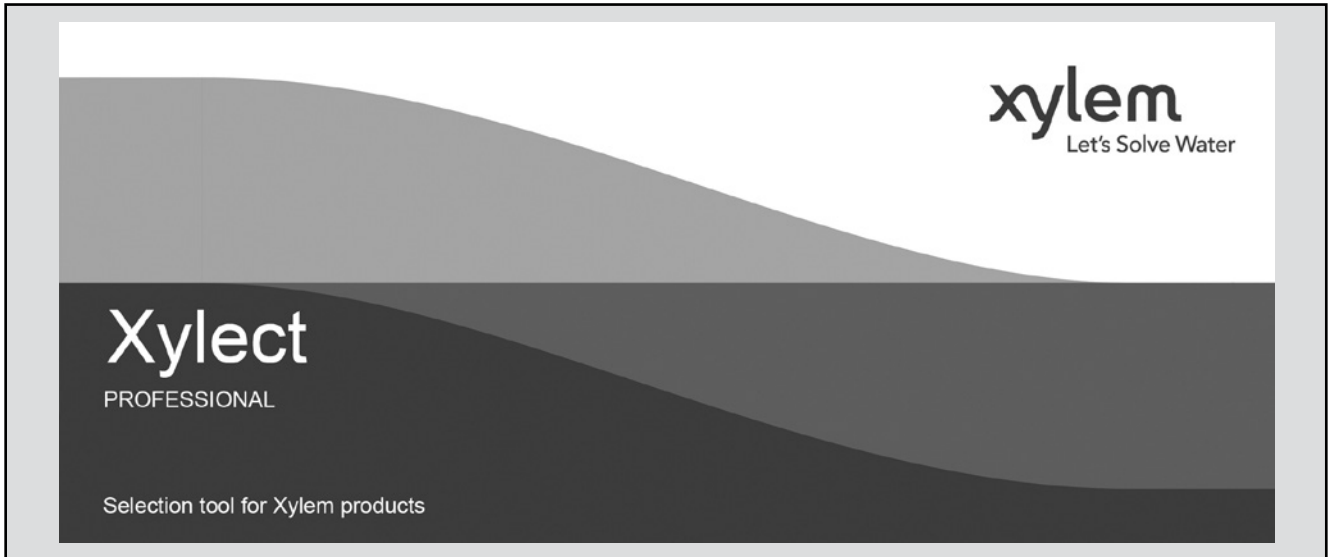
- 12 VDC power input from motherboard.
- Six low profile 12 VDC relays with 1A 230 Vac exchange contact.
- Indicator LED's available for each relay.
- Signals available configurable directly from the Q-Smart
- Assembly with board guides.
- Maximum dimensions: A=240 mm, B=67 mm, C=90 mm.

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.

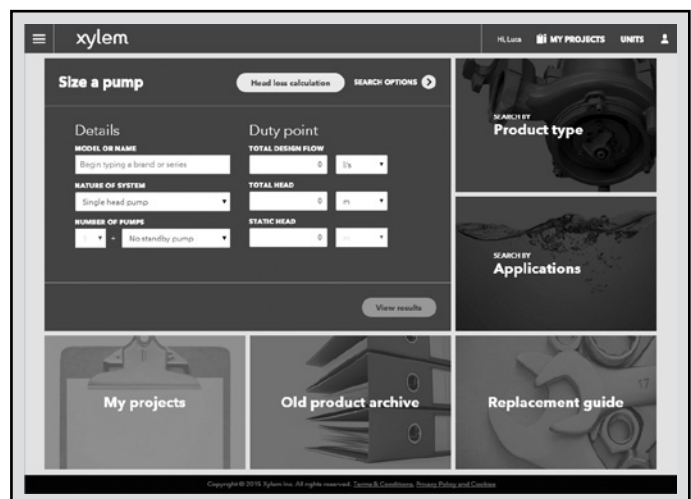
The possibility to search by applications and the detailed information output given makes it easy to make the optimal selection without having detailed knowledge about the Lowara products.

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



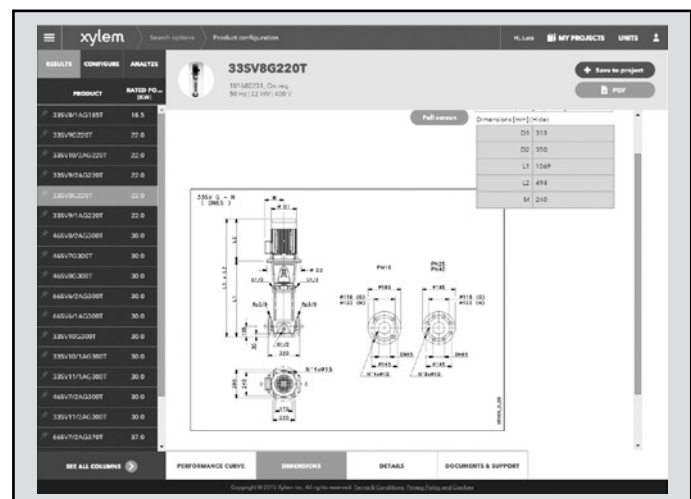
The detailed output makes it easy to select the optimal pump from the given alternatives.

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.



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 settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. 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.



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