

SR



Electric submersible pumps SR

for tanks and reservoirs

APPLICATION

Monobloc, multistage electric submersible pumps for installations in domestic, agricultural, civil and industrial environments. These electric pumps can suck liquid up to few centimetres from their bottom; they are consequently the ideal items to move clean water from tanks or rainwater harvesting reservoirs (in combination with the suction adaptor baseplate, available as accessory).

The series /80, /100, /140, /200 and /300 are certified to pump drinkable water.

The series /230, /330, /400 and /700 are designed for more professional and heavier applications; they can also pump water with a sand content up to 300 g/m³.

The series /80, powered with 24 V Direct Current, can be used in combination with the solar pumping stations ECOSOM.

CONSTRUCTION

Series SR 100 - 140: AC asynchronous, rewindable electric dry motor with short circuit rotor with double mechanical seal and oil chamber in-between. Insulation Class F

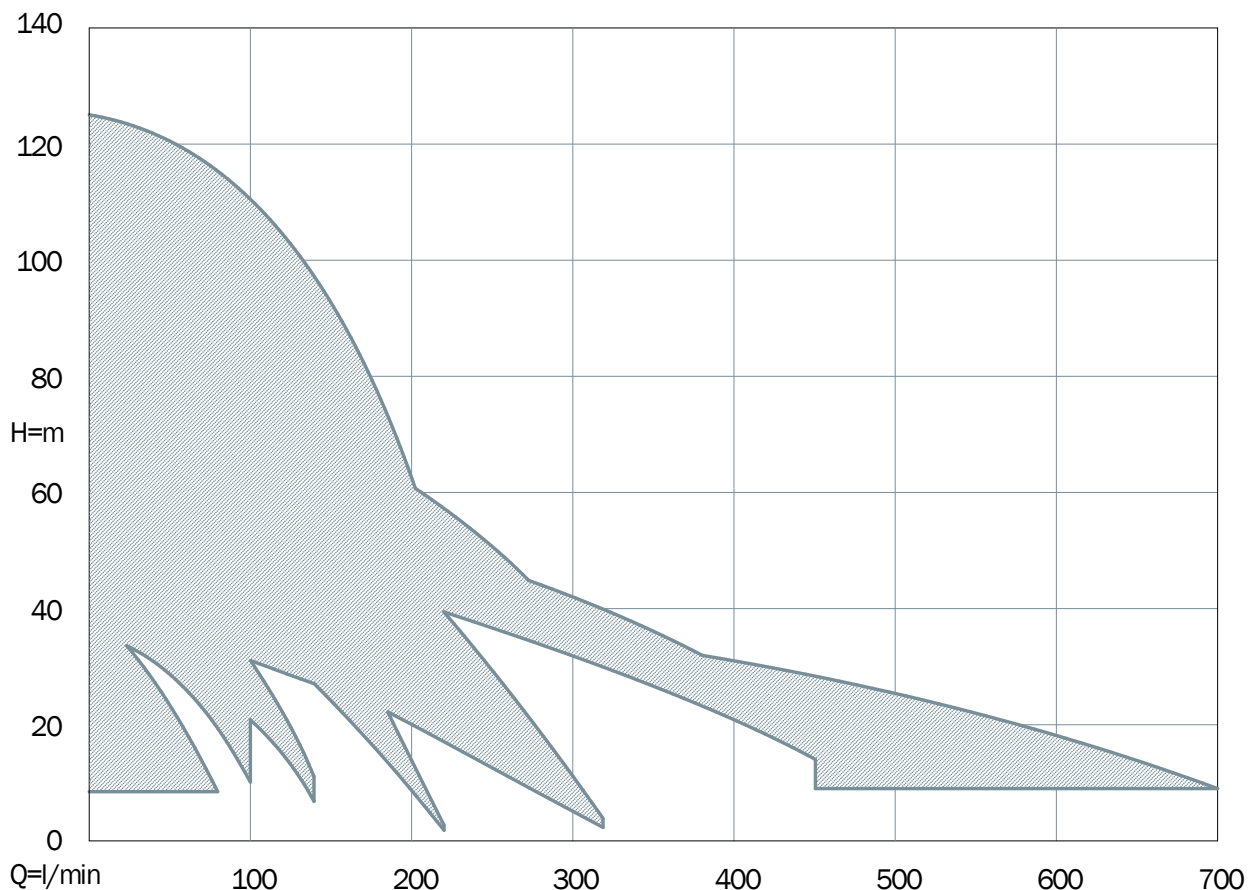
Series SR 200 - 300: AC asynchronous, rewindable electric dry motor with short circuit rotor with double mechanical seal and oil chamber in-between. Insulation Class F; lubrication chamber for the ball bearing on the pump side

Series SR 230 - 330 - 400 - 700: Coolant filled, asynchronous, rewindable electric AC motor with short circuit rotor Insulation Class F

Series SR 80: 24V DC with permanent magnets motor. Insulation Class F

Resin-insulated cable kit to prevent penetration of water inside the motor

APPLICATION RANGE



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This important certification, released by an Agency accredited by the French Ministry of Health, attests that the electric pumps series SR -/100 /140 /200 /300 can be used to pump drinkable water.



APPLICATION FEATURES

	SR		
	/100	/140	/80
IP rating	IP68		
Duty	Continuous S1		Limited use S2 (60 minutes)
Minimum level of the liquid to be pumped (mm)	100		
Maximum immersion depth (m)	30		
Max number of starts per hour	40		
Max temperature of the liquid pumped (°C)	50		45
PH of the liquid pumped	6 - 10		
Maximum sand content (g/m ³)	50		
Suitable for inverter drive	Three-phase versions only		
Not suitable to operate horizontally			

MATERIALS

	SR		
	/100	/140	/80
Discharge, motor cover and central body	Brass OT58		
External casing, handle, motor casing, bolts and nuts	Stainless Steel AISI304		
Shaft	Stainless Steel AISI420B		
Impellers and diffusers	Noryl® reinforced with fibre-glass certified for drinkable water and Stainless Steel AISI304 wear rings		
Foot	Stainless Steel AISI304		
Mechanical seal	Silicon carbide and alumina		
Elastomers	NBR rubber		
Cable	PVC ACS AD8 (for permanent immersion in drinking water)		Twin Batt

APPLICATION FEATURES

	SR					
	/200	/300	/230	/330	/400	/700
IP rating	IP68					
Duty	Continuous S1					
Minimum level of the liquid to be pumped (mm)	150		100			120
Maximum immersion depth (m)	20		30			
Max number of starts per hour	40		30			
Max temperature of the liquid pumped (°C)	40					
PH of the liquid pumped	6 - 10					
Maximum sand content (g/m ³)	50		200		300	
Suitable for inverter drive	Three-phase versions only					
Not suitable to operate horizontally						


MATERIALS

	SR					
	/200	/300	/230	/330	/400	/700
Discharge, motor cover and central body	Brass OT58		Mechanical cast iron EN GJL-250			
External casing, handle, motor casing, bolts and nuts	Stainless Steel AISI304					
Shaft	Stainless Steel AISI420B		Stainless Steel AISI420B - AISI303			
Impellers and diffusers	Noryl® reinforced with fibre-glass certified for drinkable water and Stainless Steel AISI304 wear rings					
Body of the diffusers					Mechanical cast iron EN GJL-200	
Bearing of the diffusers					Anti-sand rubber	
Bearing of the shaft support			Desmopan® with rotating element in chromium-plated brass			
Foot	ABS		Mechanical cast iron EN GJL-250			
Mechanical Seal	Graphite and Alumina					
Elastomers	NBR rubber					
Cable	PVC ACS AD8 (for permanent immersion in drinking water)					


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PERFORMANCE DATA - 24 V Direct current



Radial Impeller 	P2		24 V DC			DNM (GAS)	Q	Flow										
	hp	kW	A					m ³ /h	0	0,36	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8
							l/min	0	6	10	20	30	40	50	60	70	80	
SERIES 80																		
SR 4/80	0,75	0,55	28			1"¼	H (m)	40	38	37	34	30	26	21	17	11	7	

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	P2		1~230 V		3~400 V		DNM (GAS)	Q	Flow												
	hp	kW	A	µF	A	m ³ /h			0	1,2	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2	7,8	8,4
							l/min	0	20	40	50	60	70	80	90	100	110	120	130	140	
SERIES 100																					
SR 3/100	0,7	0,5	4,2	16		1"¼	H (m)	35	33	30	28	25	22	18	14	9					
SR 4/100	0,9	0,65	5	16	2	1"¼		46	44	39	36	32	28	23	18	11					
SR 5/100	1,1	0,8	6,6	20	2,5	1"¼		58	55	49	46	40	36	29	23	15					
SR 6/100	1,3	0,95	7,3	25	2,9	1"¼		69	64	58	54	49	42	35	26	17					
SR 7/100	1,6	1,2	8,7	31,5	3,2	1"¼		80	75	68	62	56	48	40	30	20					
SERIES 140																					
SR 4/140	1	0,75	5,7	16	2,2	1"¼	H (m)	41	38	35	33	31	29	26	23	20	17	14	10	6	
SR 5/140	1,3	0,95	7,4	20	2,8	1"¼		51	48	44	41	38	35	32	29	25	21	17	13	8	
SR 6/140	1,6	1,2	8,3	25	3,2	1"¼		62	57	52	49	46	42	38	34	30	25	20	15	10	



PERFORMANCE DATA - 2 poles 50 Hz


Radial Impeller 	P2		1~230 V		3~400 V		DNM (GAS)	Q		Flow												
	hp	kW	A	µF	A	2"		m ³ /h	0	1,2	3,6	6	8,4	11,4	13,2	14,4	15,6	16,8	18	19,2	24	27
								l/min	0	20	60	100	140	190	220	240	260	280	300	320	400	450
SERIES 200																						
SR 3/200	1,5	1,1	8	40	3	2"	H (m)	51	49	43	35	26	11	0,5								
SR 4/200	2	1,5	10	45	3,5	2"		68	65	57	47	35	15	1								
SR 5/200	3	2,2			5	2"		86	81	71	59	43	19	1,5								
SERIES 230																						
SR 11/230	4	3			8	2"	H (m)	103			91	79	55	39								
SR 13/230	5,5	4			10	2"		125			111	94	66	44								
SERIES 300																						
SR 2/300	1,5	1,1	8	40	3	2"	H (m)	36		33	30	26	19	16	13	10	7	4	1			
SR 3/300	2	1,5	10	45	3,5	2"		53		49	44	38	28,5	24	20	15	11	6,5	1,5			
SR 4/300	3	2,2			5	2"		71		64	58	51	38	32	26	20	15	8,5	2			
SR 5/300	4	3			7	2"		89		81	74	64	48	40	33	25	18	11	2,5			
SERIES 330																						
SR 9/330	5,5	4			10	2"	H (m)	89					67	58	53	47	41	34	27			
SERIES 400																						
SR 4/400	4	3			8	2"	H (m)	50					41	39	36	35	32	31	29	20	14	
SR 5/400	5,5	4			10	2"		64						52	50	48	46	43	42	39	29	20
Semi-axial impeller 																						
	P2		3~400 V			DNM (GAS)	Q		Flow													
	hp	kW	A				2"	m ³ /h	0	1,2	3,6	6	8,4	13,2	15,6	18	19,2	24	27	33	36	42
							l/min	0	20	60	100	140	220	260	300	320	400	450	550	600	700	
SERIES 700																						
SR 3/700	5,5	4	10			2"	H (m)	41							35	34,5	31	28	22	18	9	



Electric submersible pumps SR series 80

for tanks and reservoirs

PERFORMANCE DATA - 24 V Direct current

Radial Impeller 	Code	Version		P2		P1	A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW	kW		l/min	m		A	B	C	
SR 4/80	RF80/04/1	24 V	DC	0,75	0,55	0,67	28	6 - 30 - 80	38 - 30 - 7	1"¼	500	100	130	10,2

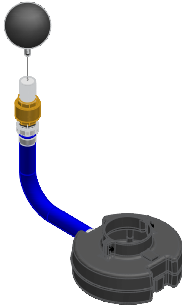

P1: Max. absorbed power - P2: Nominal power of the motor

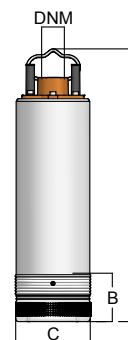
SUPPLIED WITH

5 meters power cable



ACCESSORIES

Code	Description
03710037	Suction adaptor baseplate supplied with hose, non-return valve, strainer and float switch 
02076100	Electromechanical direct starter Direct current QDC 



PERFORMANCE CURVES - 24 V Direct current

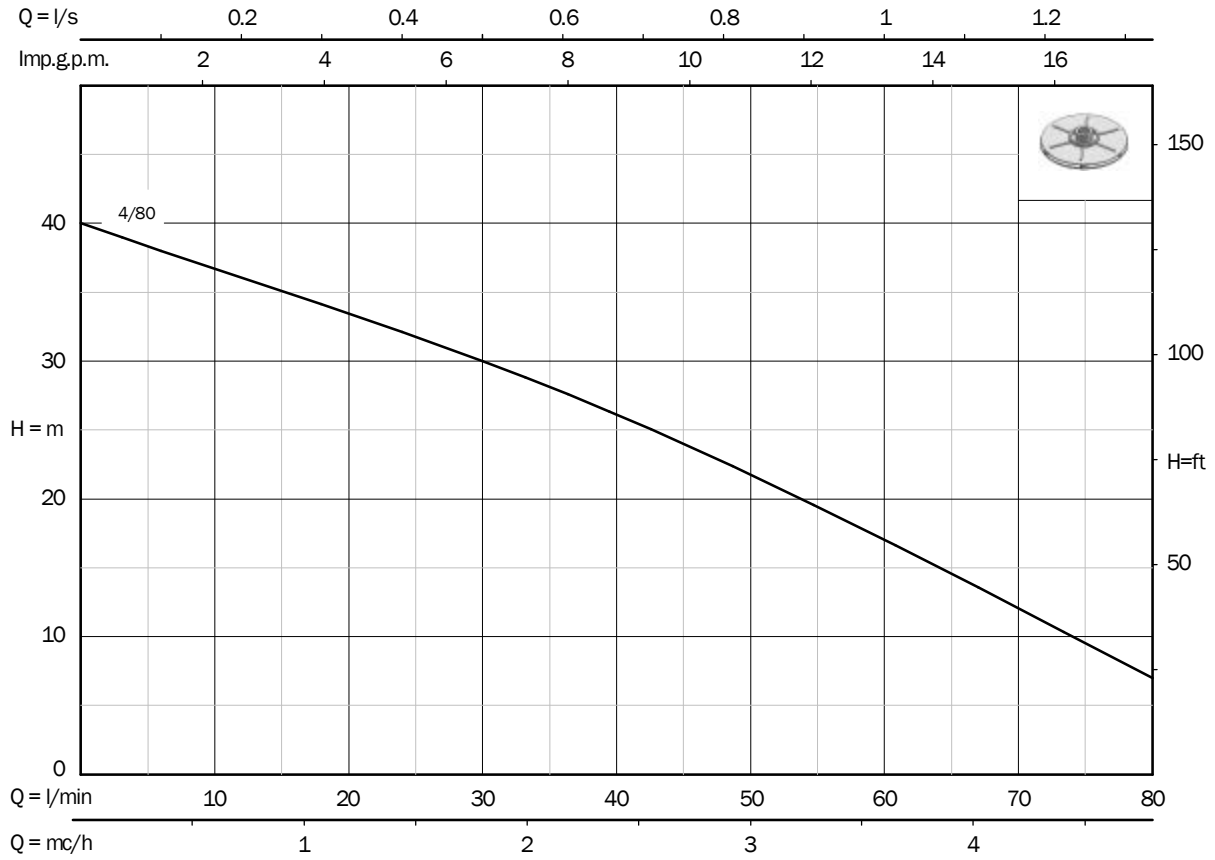
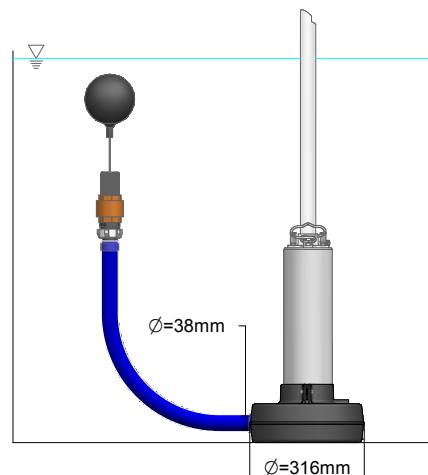



Illustration of how a suction adaptor baseplate can be installed



Electric submersible pumps SR series 100

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 3/100	RM100/03/2	230 V	1-phase	0,7	0,5	4,2	20 - 50 - 100	33 - 28 - 9	1"¼	437	100	130	11,3
	RM100/03+G/2	230 V	1-phase+float										11,5
SR 4/100	RM100/04/2	230 V	1-phase	0,9	0,65	5	20 - 50 - 100	44 - 36 - 11	1"¼	461	100	130	11,5
	RM100/04+G/2	230 V	1-phase+float										11,7
	RT100/04/1	400 V	3-phase			2							11,5
SR 5/100	RM100/05/2	230 V	1-phase	1,1	0,8	6,6	20 - 50 - 100	55 - 46 - 15	1"¼	500	100	130	12,8
	RM100/05+G/2	230 V	1-phase+float										13
	RT100/05/1	400 V	3-phase			2,5							12,8
SR 6/100	RM100/06/2	230 V	1-phase	1,3	0,95	7,3	20 - 50 - 100	64 - 54 - 17	1"¼	544	100	130	14,5
	RM100/06+G/2	230 V	1-phase+float										14,7
	RT100/06/1	400 V	3-phase			2,9							14,5
SR 7/100	RM100/07/2	230 V	1-phase	1,6	1,2	8,7	20 - 50 - 100	75 - 62 - 20	1"¼	588	100	130	16,5
	RM100/07+G/2	230 V	1-phase+float										16,7
	RT100/07/1	400 V	3-phase			3,2							16,5

SUPPLIED WITH

10 meters power cable



Capacitor (single-phase version)



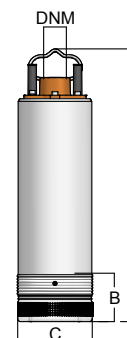
Built-in thermal protection with manual reset (single-phase versions)



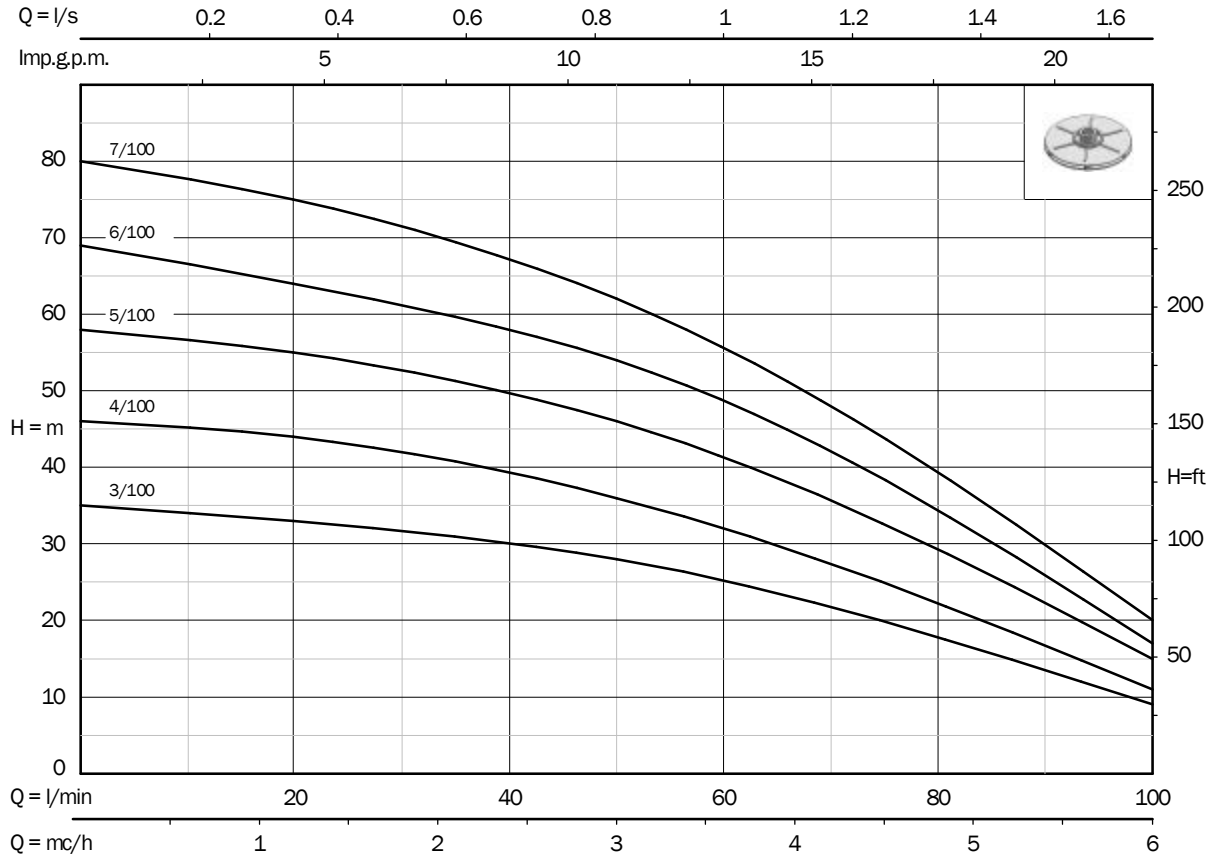
OPTIONS

20 meters power cable

30 meters power cable



PERFORMANCE CURVES - 2 poles 50 Hz

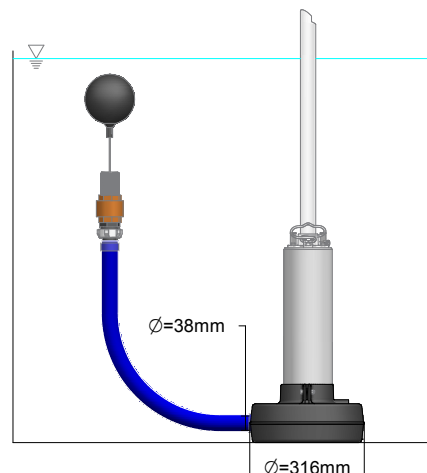


ACCESSORIES

Code	Description
03710037	Suction adaptor baseplate supplied with hose, non-return valve, strainer and float switch
020700..	Single-phase direct starter QM IT with bipolar, illuminated thermal protector switch with facility to wire the capacitor
020811..	Three-phase electromechanical direct starter QT MT




Illustration of how a suction adaptor baseplate can be installed



Electric submersible pumps SR series 140

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 4/140	RM140/04/2	230 V	1-phase	1	0,75	5,7	20 - 90 - 140	38 - 23 - 6	1"1/4	461	100	130	11,6
	RM140/04+G/2	230 V	1-phase+float										11,8
	RT140/04/1	400 V	3-phase										2,2
SR 5/140	RM140/05/2	230 V	1-phase	1,3	0,95	7,4	20 - 90 - 140	48 - 29 - 8	1"1/4	500	100	130	13,2
	RM140/05+G/2	230 V	1-phase+float										13,4
	RT140/05/1	400 V	3-phase										2,8
SR 6/140	RM140/06/2	230 V	1-phase	1,6	1,2	8,3	20 - 90 - 140	57 - 34 - 10	1"1/4	544	100	130	14,6
	RM140/06+G/2	230 V	1-phase+float										14,8
	RT140/06/1	400 V	3-phase										3,2



SUPPLIED WITH

10 meters power cable



Capacitor (single-phase version)



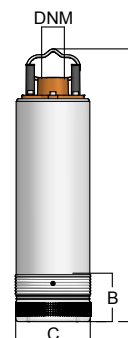
Built-in thermal protection with manual reset (single-phase versions)



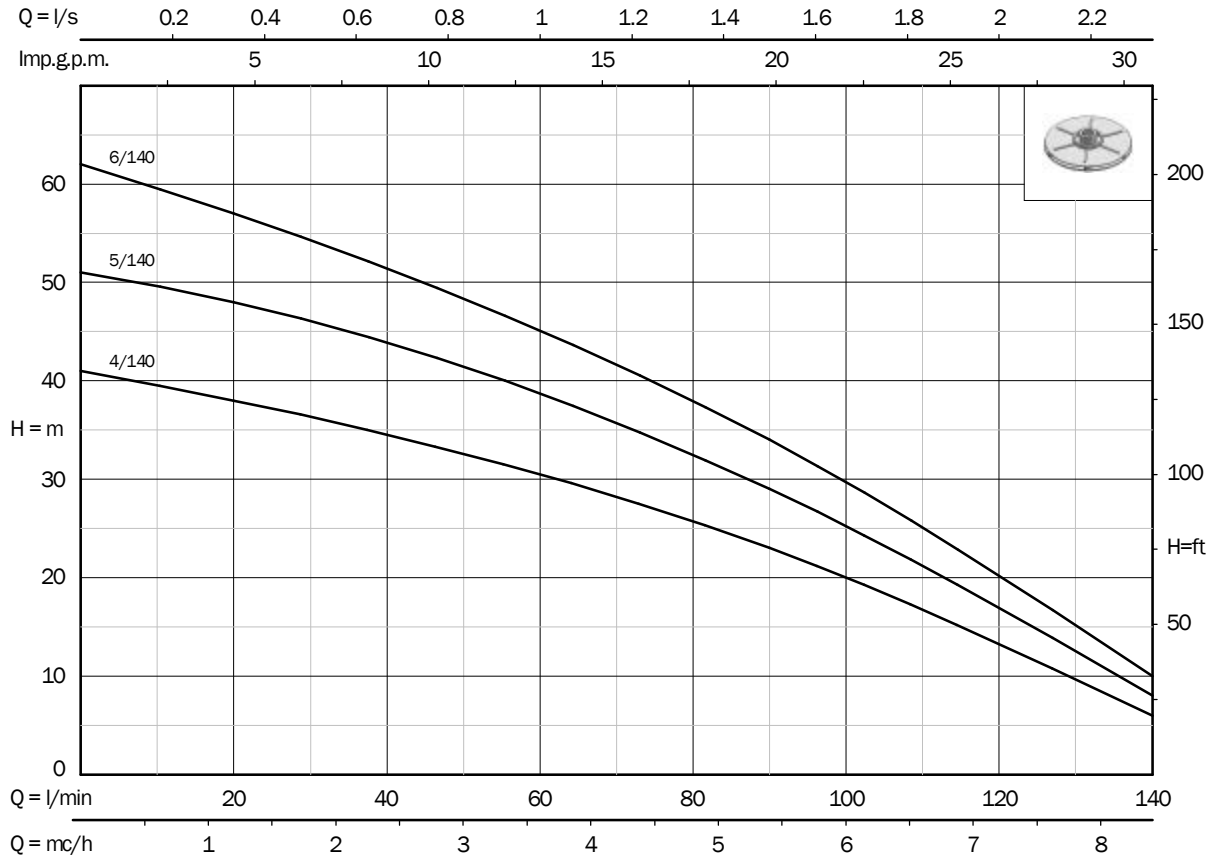
OPTIONS

20 meters power cable

30 meters power cable



PERFORMANCE CURVES - 2 poles 50 Hz

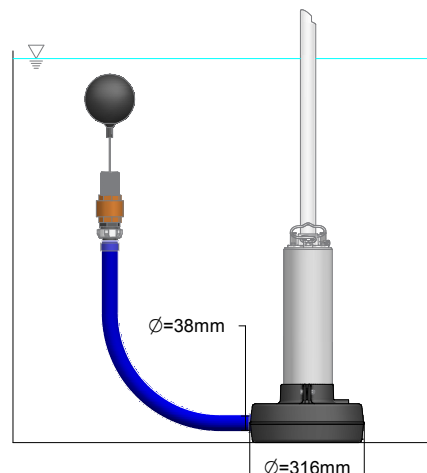


ACCESSORIES

Code	Description
03710037	Suction adaptor baseplate supplied with hose, non-return valve, strainer and float switch
020700..	Single-phase direct starter QM IT with bipolar, illuminated thermal protector switch with facility to wire the capacitor
020811..	Three-phase electromechanical direct starter QT MT




Illustration of how a suction adaptor baseplate can be installed



Electric submersible pumps SR series 200

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 3/200	RM200/03	230 V	1-phase	1,5	1,1	8	20 - 140 - 220	49 - 26 - 0,5	2"	639	150	145	21,2
	RT200/03	400 V	3-phase			3							20,4
SR 4/200	RM200/04	230 V	1-phase	2	1,5	10	20 - 140 - 220	65 - 35 - 1	2"	700	150	145	24
	RT200/04	400 V	3-phase			3,5				675			20,8
SR 5/200	RT200/05	400 V	3-phase	3	2,2	5	20 - 140 - 220	81 - 43 - 1,5	2"	736	150	145	23,7



SUPPLIED WITH



10 meters power cable

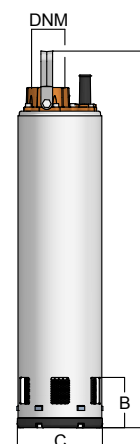


Capacitor (single-phase versions)

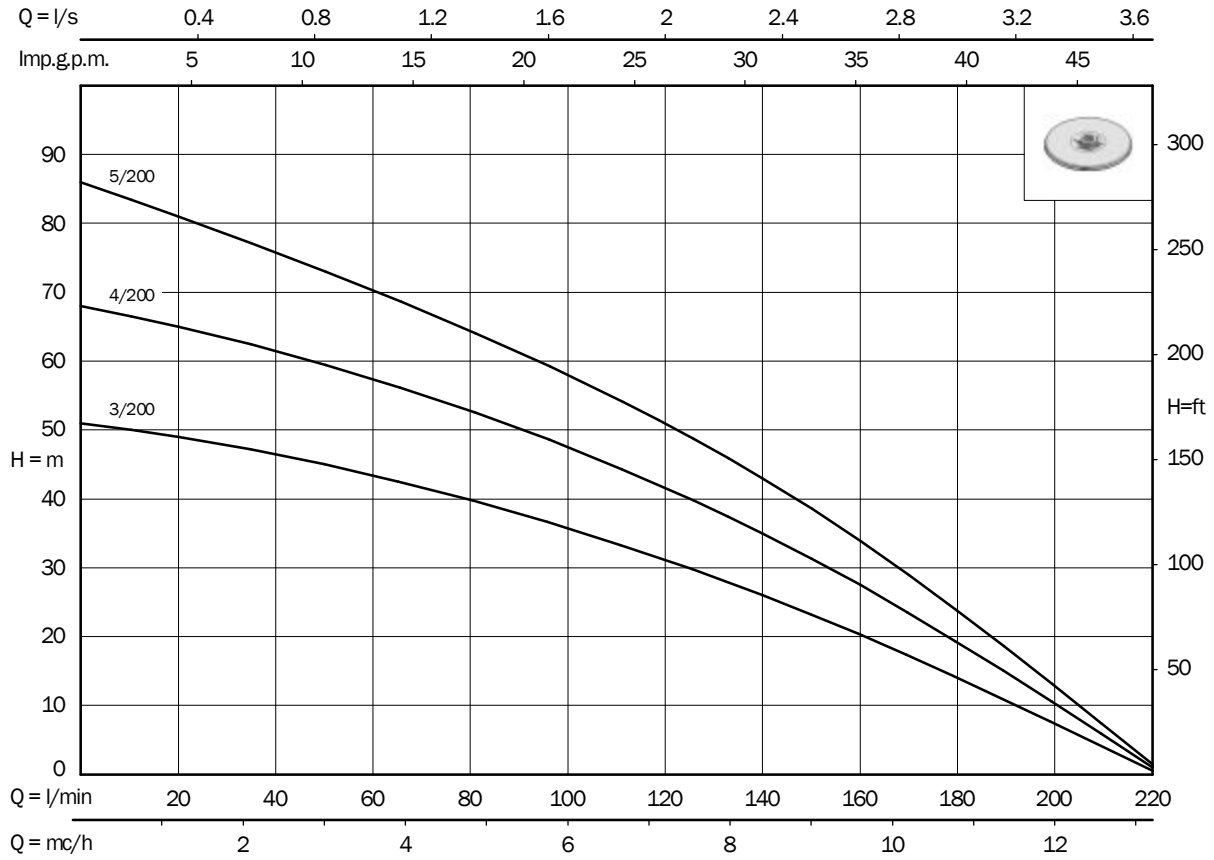


ACCESSORIES

Code	Description	
020700..	Single-phase direct starter QM IT with bipolar, illuminated thermal protector switch with facility to wire the capacitor	
020811..	Three-phase electromechanical direct starter QT MT	




PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps SR series 230

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 11/230	RT230/11	400 V	3-phase	4	3	8	100 - 180 - 220	91 - 61 - 39	2"	1375	100	142	37
SR 13/230	RT230/13	400 V	3-phase	5,5	4	10	100 - 180 - 220	111 - 72 - 44	2"	1496	100	142	42,4





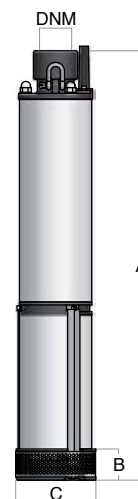
SUPPLIED WITH

3 meters power cable

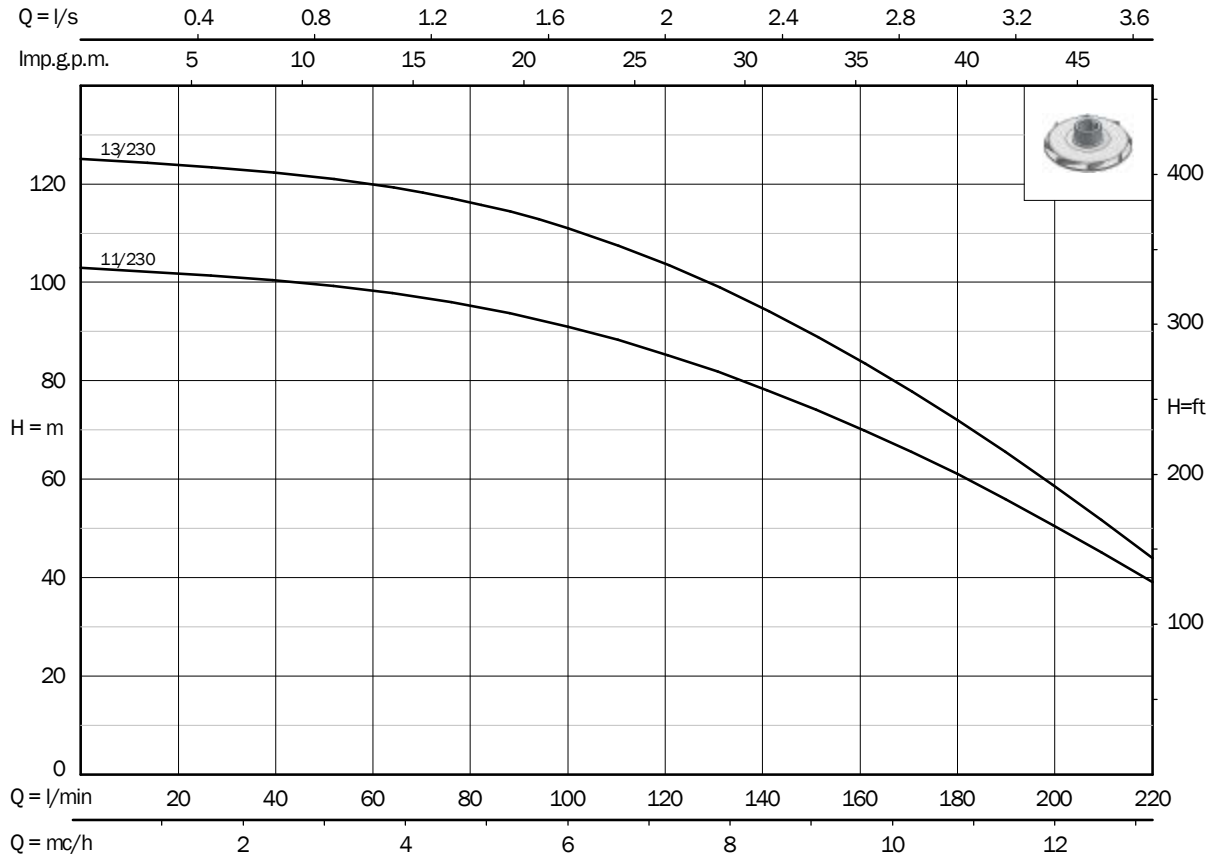


ACCESSORIES

Code	Description
02081140	Three-phase Electromechanical direct starter QT MT 10 4 hp 
02081030	Three-phase Electromechanical direct starter AT 55 CL 5,5 hp 




PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps SR series 300

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 2/300	RM300/02	230 V	1-phase	1,5	1,1	8	60 - 220 - 320	33 - 16 - 1	2"	603	150	145	20
	RT300/02	400 V	3-phase			3							19,8
SR 3/300	RM300/03	230 V	1-phase	2	1,5	10	60 - 220 - 320	49 - 24 - 1,5	2"	664	150	145	23,3
	RT300/03	400 V	3-phase			3,5							20,3
SR 4/300	RT300/04	400 V	3-phase	3	2,2	5	60 - 220 - 320	64 - 32 - 2	2"	700	150	145	23,5
SR 5/300	RT300/05	400 V	3-phase	4	3	7	60 - 220 - 320	81 - 40 - 2,5	2"	776	150	145	27



SUPPLIED WITH



10 meters power cable

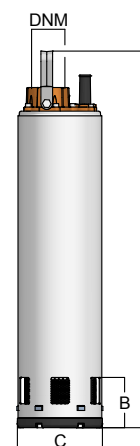


Capacitor (single-phase versions)

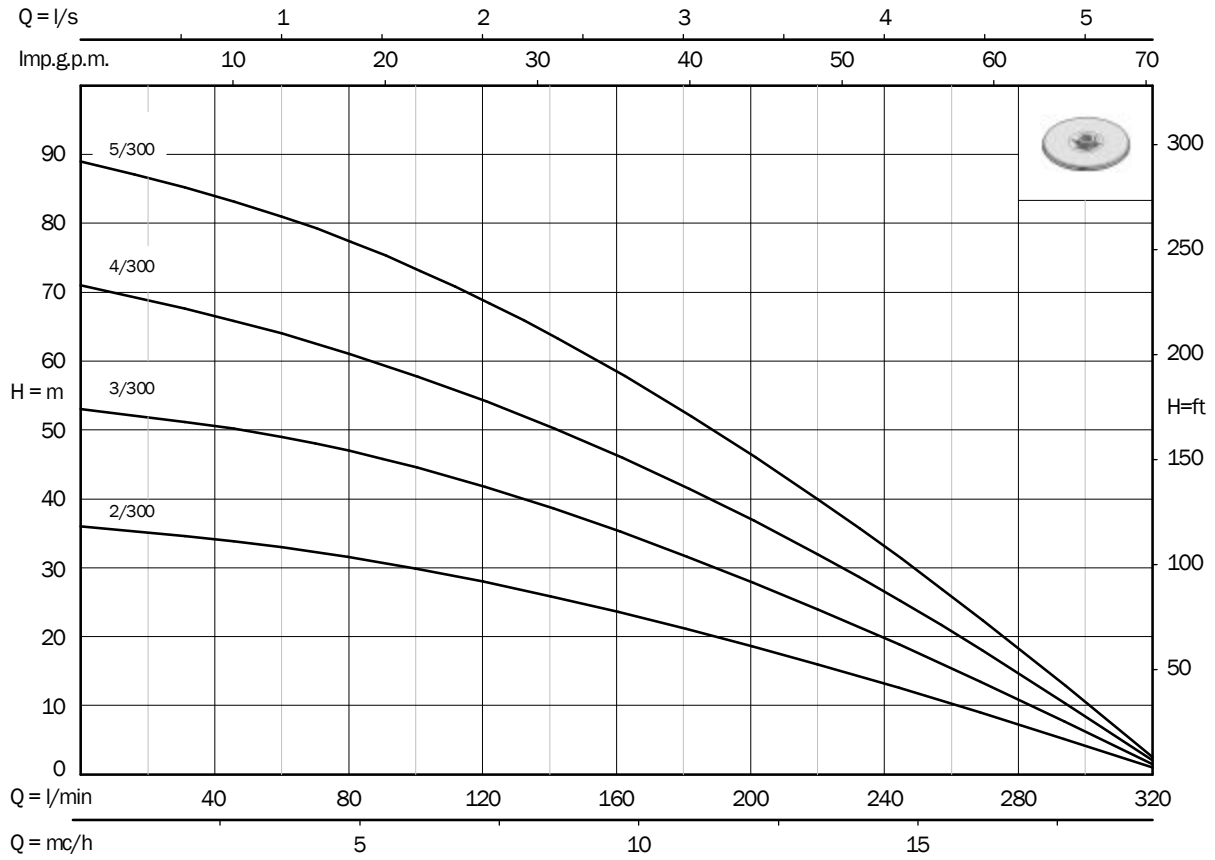


ACCESSORIES

Code	Description	
020700..	Single-phase direct starter QM IT with bipolar, illuminated thermal protector switch with facility to wire the capacitor	
020811..	Three-phase electromechanical direct starter QT MT	




PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps SR series 330

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 9/330	RT330/09	400 V	3-phase	5,5	4	10	180 - 260 - 320	68 - 47 - 27	2"	1352	100	142	39,4



SUPPLIED WITH

3 meters power cable

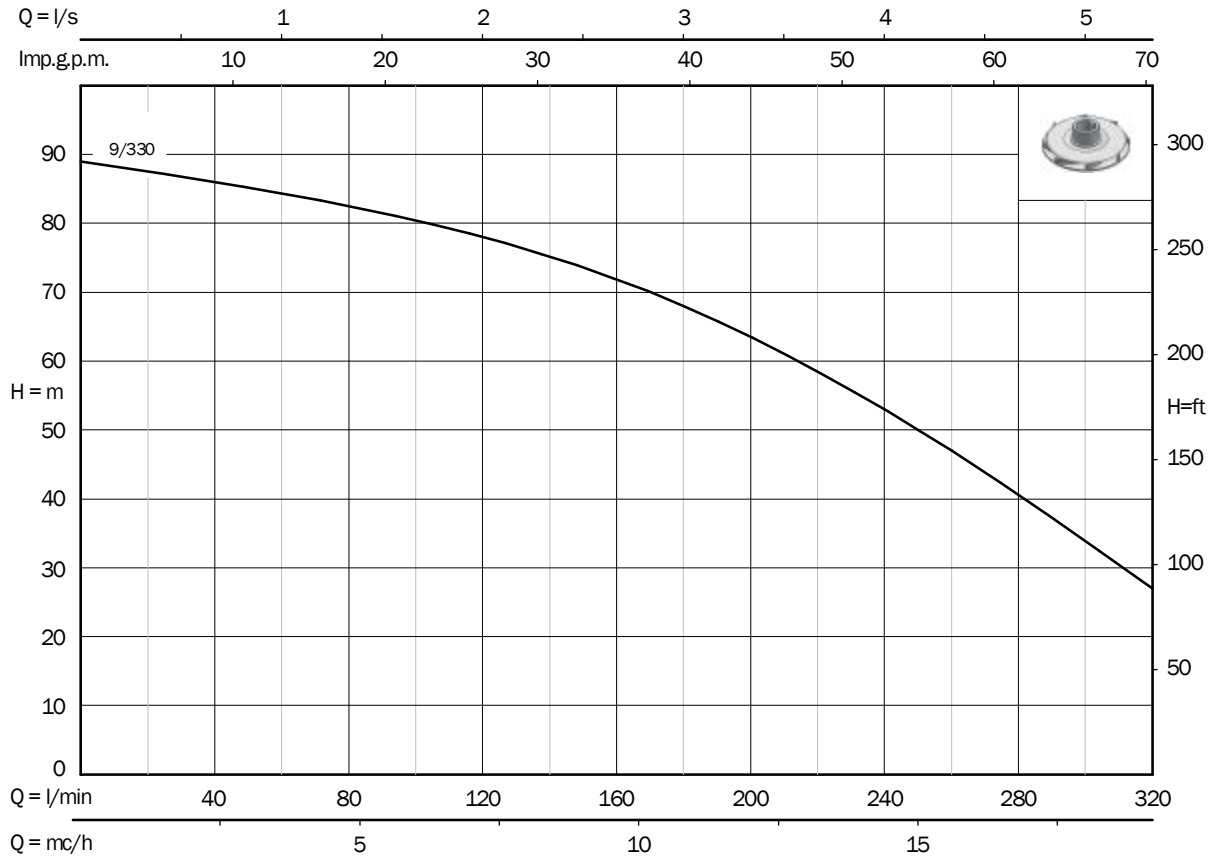


ACCESSORIES

Code	Description
02081030	Three-phase Electromechanical direct starter AT 55 CL 5,5 hp




PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps SR series 400

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Radial Impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 4/400	RT400/04	400 V	3-phase	4	3	8	190 - 300 - 450	41 - 31 - 14	2"	1185	100	142	39,5
SR 5/400	RT400/05	400 V	3-phase	5,5	4	10	190 - 300 - 450	52 - 42 - 20	2"	1284	100	142	44,4





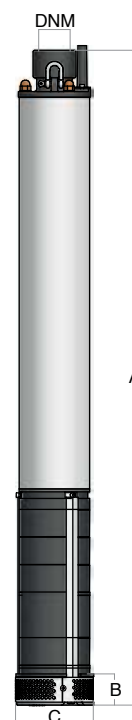
SUPPLIED WITH

3 meters power cable

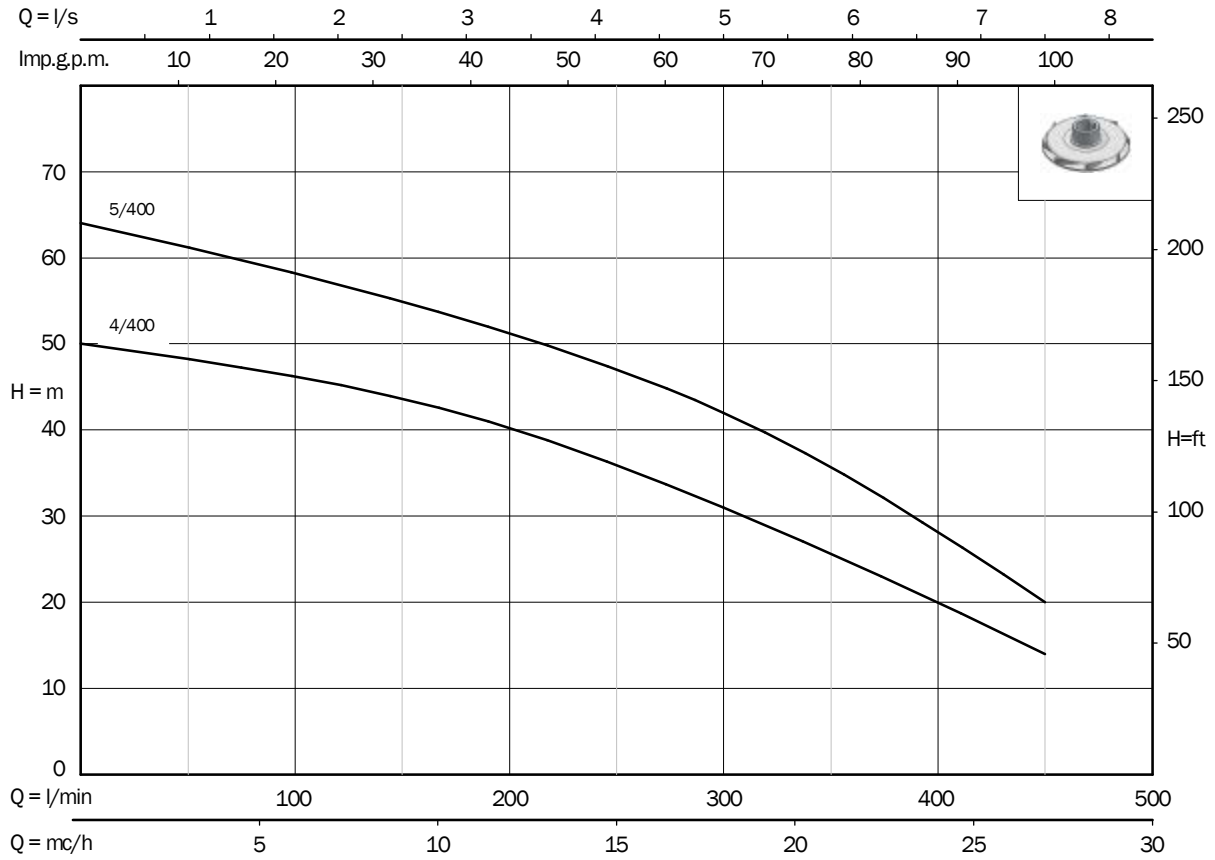


ACCESSORIES

Code	Description	
02081140	Three-phase Electromechanical direct starter QT MT 10 4 hp	
02081030	Three-phase Electromechanical direct starter AT 55 CL 5,5 hp	




PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps SR series 700

for tanks and reservoirs

PERFORMANCE DATA - 2 poles 50 Hz

Semi-axial impeller 	Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Weight kg
				hp	kW		l/min	m		A	B	C	
SR 3/700	RT700/03	400 V	3-phase	5,5	4	10	300 - 500 - 700	35 - 25 - 9	2"	1262	120	142	38,9




SUPPLIED WITH

3 meters power cable



ACCESSORIES

Code	Description
02081030	Three-phase Electromechanical direct starter AT 55 CL 5,5 hp 



PERFORMANCE CURVES - 2 poles 50 Hz

