3SR 3" submersible pumps

Clean water

Domestic use

Civil use

PERFORMANCE RANGE

- Flow rate up to **140 l/min** (8.4 m³/h)
- Head up to **246 m**

INSTALLATION AND USE

3-inch submersible pumps are designed to transfer clean water, making them perfect for household use, irrigation, and small community water systems.

KEY FEATURES

The increased efficiency of 3SR pumps not only saves electricity but also offers economic advantages. Their small size and light build allow for easy installation in wells 3 inches wide or more.
With a blend of hydraulic parts and a high-efficiency motor, 3SR pumps excel in the 3-inch category, capable of handling water with up to **150 g/m³** of sand.

ELECTRIC MOTOR

- **Rewindable** motor in oil bath (non-toxic food-safe oil) 2-pole, 60 Hz
- Voltage:
  - single-phase 220 V
  - three-phase 220 V or 380 V
- Continuous running duty **S1**
- Insulation: Class F
- Protection rating: IP 68
- Shaft and sleeve: **AISI 304** stainless steel
- Flange coupling dimensions to NEMA standard
- Connector with power cable from:
  - **1.5 m** for power up to 0.75 kW
  - **2.0 m** for power ratings from 1.1 kW

APPLICATION LIMITS

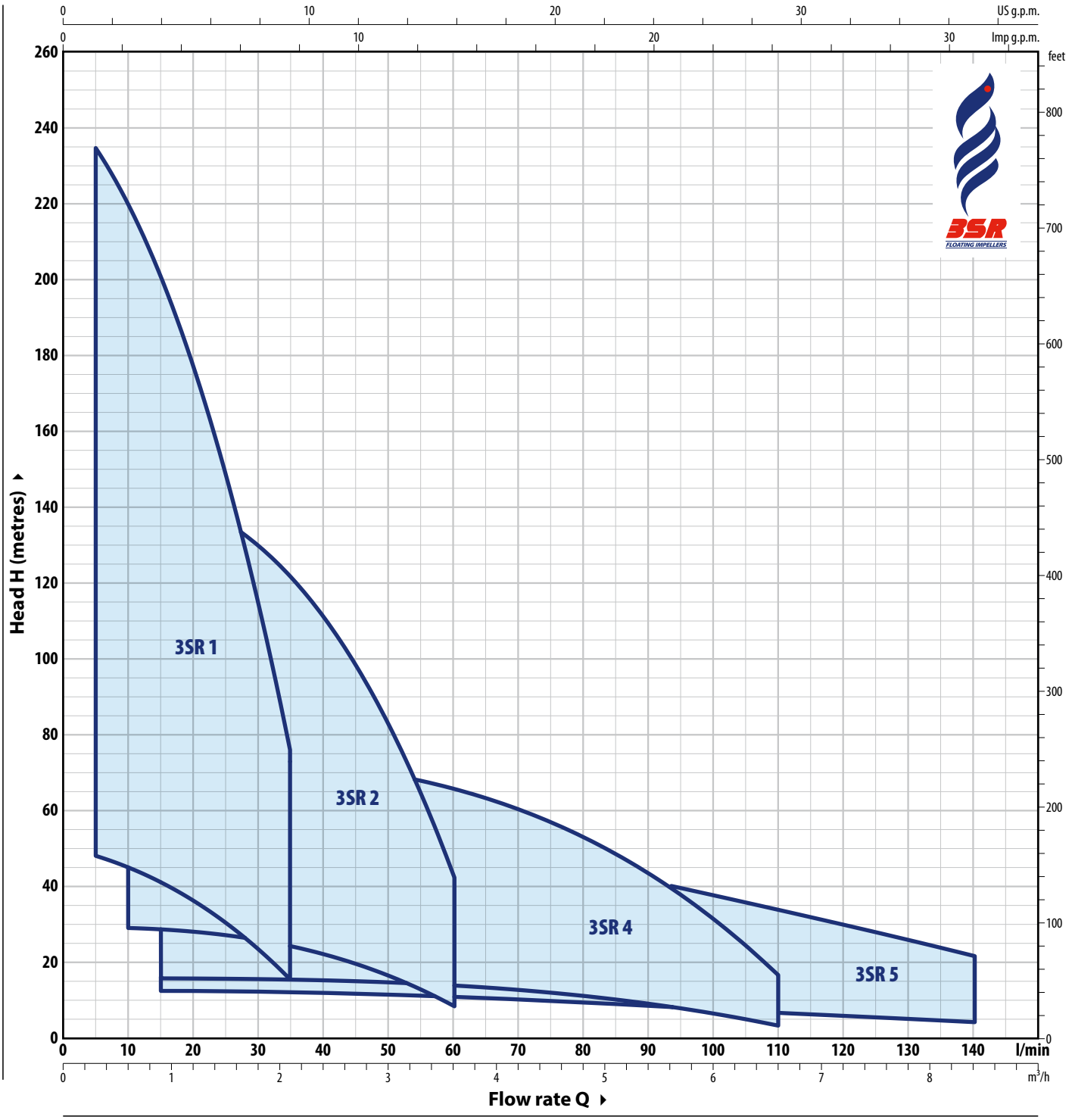
- Liquid temperature up to **+40 °C**
- Maximum sand content **150 g/m³**
- Capable of operating at depths of up to **100 metres** below water level (with an appropriately sized power cable)
- Vertical operation
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**

AVAILABLE UPON REQUEST

※ **10, 20, 30 or 40 metres** long power cable
※ Different voltage or frequency

PERFORMANCE RANGE

60 Hz



PATENTS:

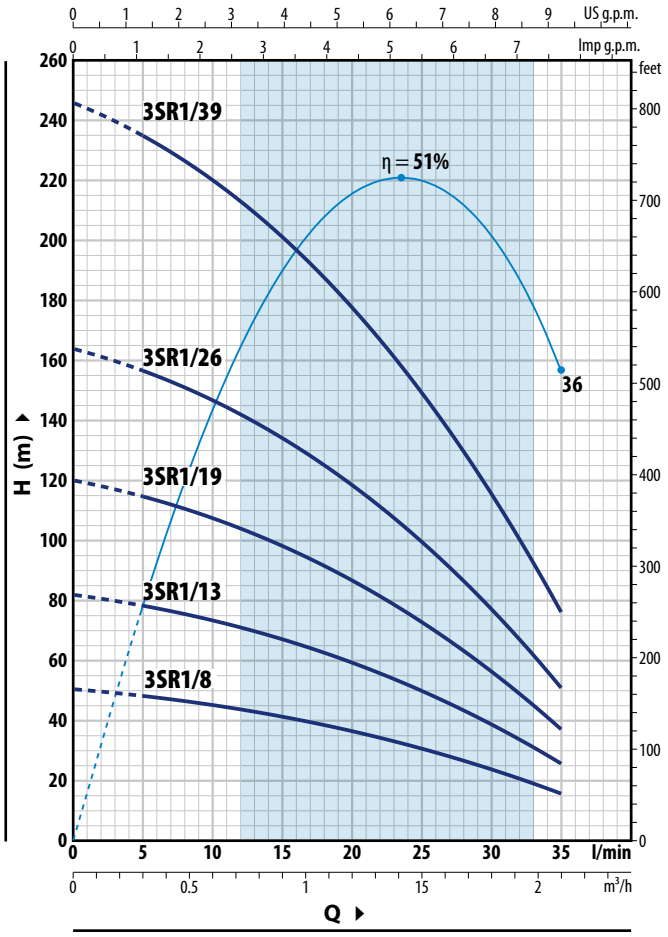
- Patent No. EP3123031, EP2419642

ECO FRIENDLY · ErP ready · RoHS 2 COMPLIANT · REACH COMPLIANT · EMC COMPLIANT

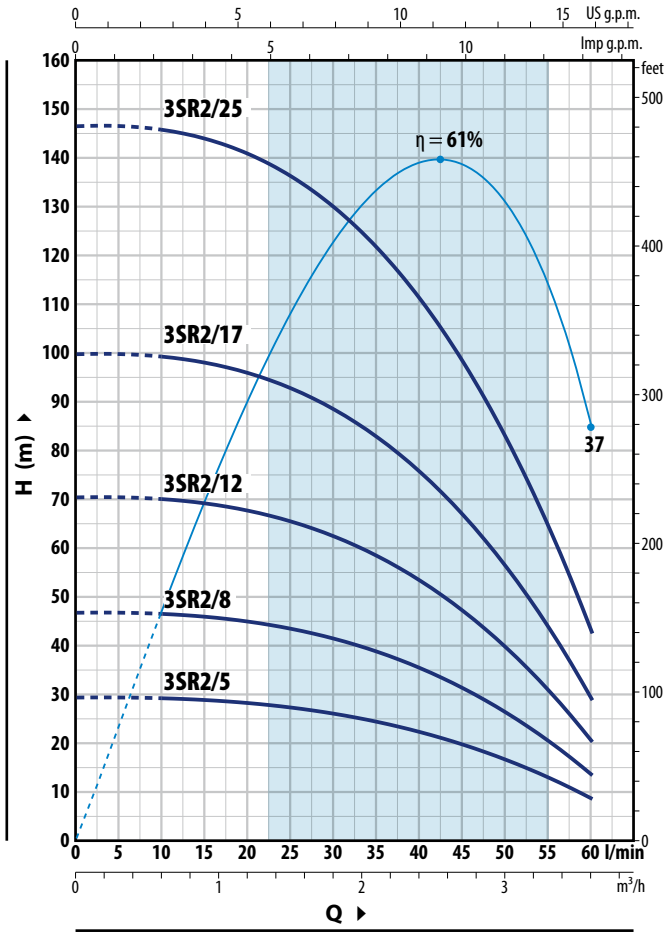
CURVES AND PERFORMANCE DATA

60 Hz

3SR 1



3SR 2



3SR 1

TYPE		POWER (P2)		Q m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1
Single-phase	Three-phase	kW	HP	Q l/min	0	5	10	15	20	25	30	35
3SRm 1/8	3SR 1/8	0.25	0.33		50.5	48	45	41.5	36.5	30.5	23.7	15.5
3SRm 1/13	3SR 1/13	0.37	0.50		82	78	73	67	59	49.5	38.5	25.5
3SRm 1/19	3SR1/19	0.55	0.75	H metres	120	114	107	98	87	73	56.5	37
3SRm 1/26	3SR 1/26	0.75	1		164	157	147	134	118	99	77	51
3SRm 1/39	3SR 1/39	1.1	1.5		246	235	220	201	178	149	116	76

3SR 2

TYPE		POWER (P2)		Q m³/h	0	0.6	0.9	1.2	1.8	2.4	3	3.6
Single-phase	Three-phase	kW	HP	Q l/min	0	10	15	20	30	40	50	60
3SRm 2/5	3SR 2/5	0.25	0.33		29.5	29	29	28	26	22.2	16.5	8.5
3SRm 2/8	3SR 2/8	0.37	0.50		47	46.5	46	45	41.5	35.5	26.4	13.5
3SRm 2/12	3SR 2/12	0.55	0.75	H metres	70	70	69	67.5	62.5	53.5	39.5	20.5
3SRm 2/17	3SR 2/17	0.75	1		100	99	98	96	88	76	56	29
3SRm 2/25	3SR 2/25	1.1	1.5		147	146	144	141	130	111	83	42.5

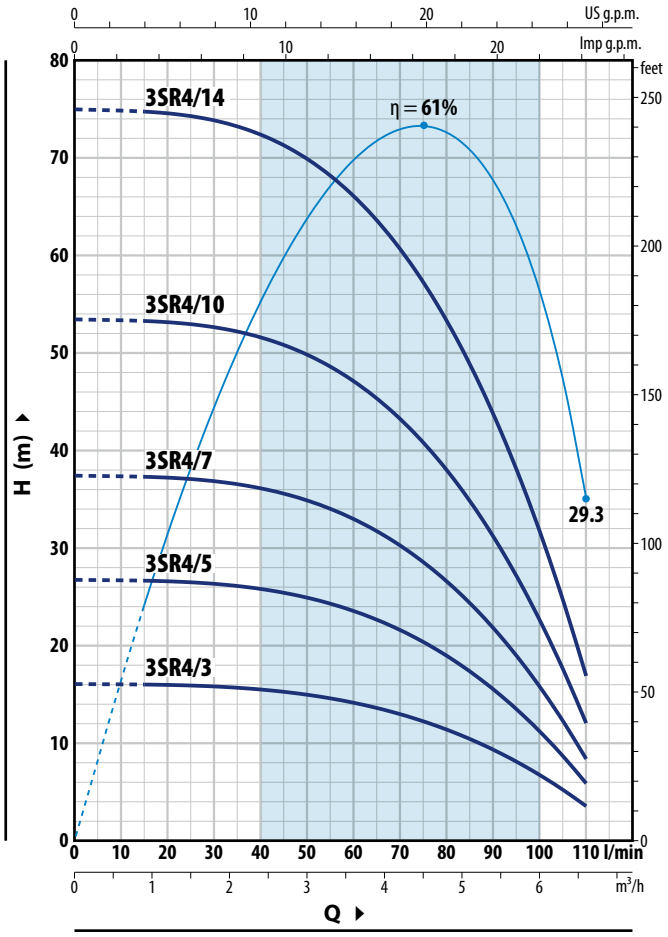
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

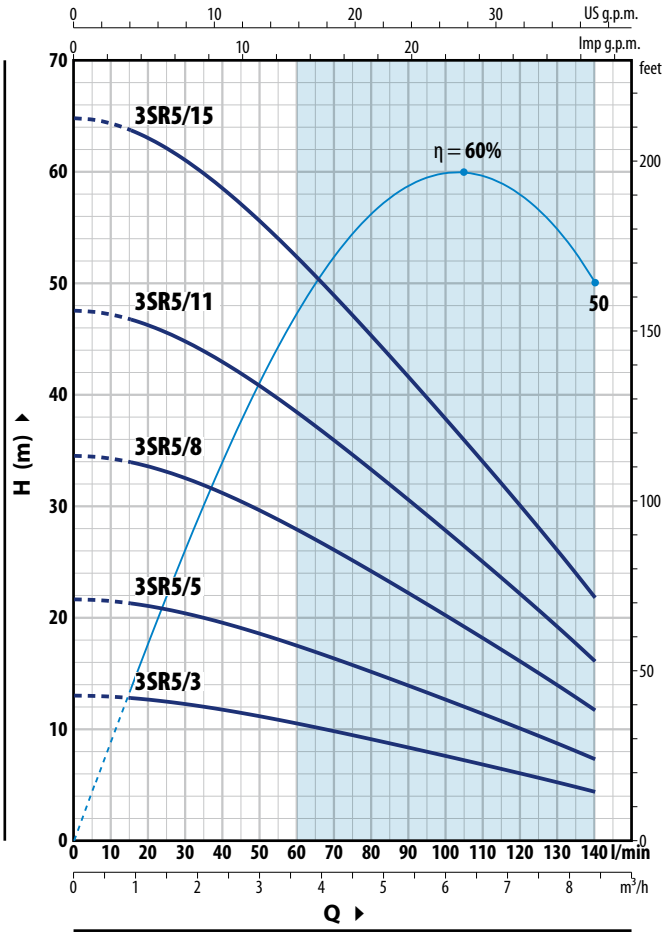
CURVES AND PERFORMANCE DATA

60 Hz

3SR 4



3SR 5



3SR 4

TYPE		POWER (P2)		Q m³/h	0	0.9	1.8	2.4	3	4.2	5.4	6.6
Single-phase	**Three-phase**	**kW**	**HP**	Q l/min	**0**	**15**	**30**	**40**	**50**	**70**	**90**	**110**
3SRm 4/3	**3SR 4/3**	0.25	0.33		16	16	15.8	15.5	14.9	13	9.4	3.5
3SRm 4/5	**3SR 4/5**	0.37	0.50		26.5	26.5	26.3	25.8	24.9	21.6	15.6	6
3SRm 4/7	**3SR 4/7**	0.55	0.75	**H** metres	37.5	37.5	37	36	35	30.5	21.8	8.5
3SRm 4/10	**3SR 4/10**	0.75	1		53.5	53.5	52.5	51.5	50	43	31	12
3SRm 4/14	**3SR 4/14**	1.1	1.5		75	75	74	72	70	60.5	43.5	17

3SR5

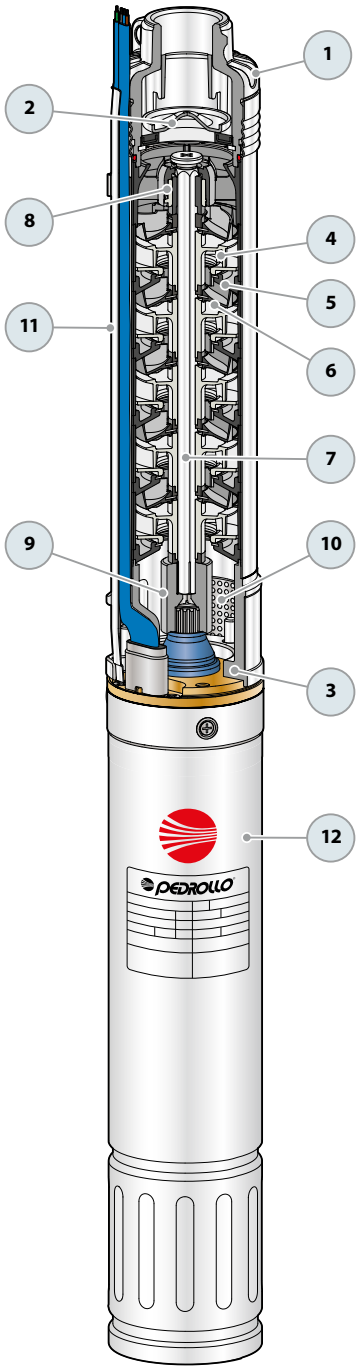
TYPE		POWER (P2)		Q m³/h	0	0.9	1.8	2.4	3	3.6	4.2	4.8	6	8.4
Single-phase	**Three-phase**	**kW**	**HP**	Q l/min	**0**	**15**	**30**	**40**	**50**	**60**	**70**	**80**	**100**	**140**
3SRm 5/3	**3SR 5/3**	0.25	0.33		13	13	12.2	11.7	11.1	10.5	9.8	9.1	7.6	4.5
3SRm 5/5	**3SR 5/5**	0.37	0.50		21.5	21.5	20.3	19.5	18.5	17.4	16.3	15.1	12.6	7.5
3SRm 5/8	**3SR 5/8**	0.55	0.75	**H** metres	34.5	34	32.5	31	29.5	28	26.1	24.1	20.2	11.5
3SRm 5/11	**3SR 5/11**	0.75	1		47.5	47	45	43	41	38.5	36	33	27.5	16
3SRm 5/15	**3SR 5/15**	1.1	1.5		65	64	61	58.5	55.5	52.5	49	45.5	38	22

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ANSI/ASME B1.20.1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	**AISI 304** micro-cast stainless steel, sized to NEMA standards
4	**Impellers**	Delrin® for 3SR 1-2-4 Noryl™ for 3SR 5
5	**Diffusers**	Noryl™ - **AISI 304** stainless steel
6	**Diffuser cover**	Noryl™ - **AISI 304** stainless steel for 3SR 1-2-4 Noryl™ for 3SR 5
7	**Pump shaft**	Stainless steel **AISI 304**
8	**Pump bearings**	Made of **AISI 316L** stainless steel coated with chromium oxide, for greater durability even in the presence of sand.
9	**Tow coupling**	Stainless steel **AISI 316L**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 3"**	Rewindable oil-submerged motor



ABSORPTION

Single-phase versions - 220 V - 60 Hz

TYPE	Power nominal P2		Axial Load	Capacitor (VL=450V)	Absorption
	kW	HP	N	µF	
3SRm 1/8	0.25	0.33		12.5	2.9 A
3SRm 1/13	0.37	0.50		12.5	3.4 A
3SRm 1/19	0.55	0.75	800	16	4.4 A
3SRm 1/26	0.75	1		20	6.0 A
3SRm 1/39	1.1	1.5		30	8.0 A
3SRm 2/5	0.25	0.33		12.5	2.9 A
3SRm 2/8	0.37	0.50		12.5	3.4 A
3SRm 2/12	0.55	0.75	800	16	4.4 A
3SRm 2/17	0.75	1		20	6.0 A
3SRm 2/25	1.1	1.5		30	8.0 A
3SRm 4/3	0.25	0.33		12.5	2.9 A
3SRm 4/5	0.37	0.50		12.5	3.4 A
3SRm 4/7	0.55	0.75	800	16	4.4 A
3SRm 4/10	0.75	1		20	6.0 A
3SRm 4/14	1.1	1.5		30	8.0 A
3SRm 5/3	0.25	0.33		12.5	2.9 A
3SRm 5/5	0.37	0.5		12.5	3.4 A
3SRm 5/8	0.55	0.75	800	16	4.4 A
3SRm 5/11	0.75	1		20	6.0 A
3SRm 5/15	1.1	1.5		30	8.0 A

Three-phase versions 220 V or 380 V - 60Hz

TYPE	Power nominal P2		Axial Load	Absorption	
	kW	HP	N	**220 V**	**380 V**
3SR 1/8	0.25	0.33		2.6 A	1.5 A
3SR 1/13	0.37	0.50		2.6 A	1.5 A
3SR 1/19	0.55	0.75	800	3.3 A	1.9 A
3SR 1/26	0.75	1		5.2 A	3.0 A
3SR 1/39	1.1	1.5		5.9 A	3.4 A
3SR 2/5	0.25	0.33		2.6 A	1.5 A
3SR 2/8	0.37	0.50		2.6 A	1.5 A
3SR 2/12	0.55	0.75	800	3.3 A	1.9 A
3SR 2/17	0.75	1		5.2 A	3.0 A
3SR 2/25	1.1	1.5		5.9 A	3.4 A
3SR 4/3	0.25	0.33		2.6 A	1.5 A
3SR 4/5	0.37	0.50		2.6 A	1.5 A
3SR 4/7	0.55	0.75	800	3.3 A	1.9 A
3SR 4/10	0.75	1		5.2 A	3.0 A
3SR 4/14	1.1	1.5		5.9 A	3.4 A
3SR5/3	0.25	0.33		2.6 A	1.5 A
3SR5/5	0.37	0.5		2.6 A	1.5 A
3SR5/8	0.55	0.75	800	3.3 A	1.9 A
3SR5/11	0.75	1		5.2 A	3.0 A
3SR5/15	1.1	1.5		5.9 A	3.4 A

DIMENSIONS AND WEIGHT

TYPE	PORT	DIMENSIONS mm				kg
Single-ph.	**DN**	Ø	h1	h2	h3	1~
3SRm1/8			302	388	690	9.5
3SRm1/13			396	388	784	10.0
3SRm1/19			510	408	917	11.2
3SRm1/26			642	448	1089	13.1
3SRm1/39			916	488	1404	15.7
3SRm2/5			264	388	652	9.3
3SRm2/8			332	388	719	9.7
3SRm2/12			422	408	830	10.8
3SRm2/17			535	448	982	12.5
3SRm2/25	**1" NPT**	**76**	715	488	1203	14.6
3SRm4/3			247	388	634	9.2
3SRm4/5			311	388	698	9.5
3SRm4/7			374	408	782	10.4
3SRm4/10			470	448	918	12.0
3SRm4/14			598	488	1085	13.8
3SRm5/3			299	388	686	9.2
3SRm5/5			399	388	786	9.7
3SRm5/8			550	408	957	11.1
3SRm5/11			700	448	1148	13.1
3SRm5/15			901	488	1389	15.3

Three-ph.	DN	Ø	h1	h2	h3	3~
3SR1/8			302	368	670	9.1
3SR1/13			396	368	764	9.6
3SR1/19			510	388	897	10.6
3SR1/26			642	408	1049	12.0
3SR1/39			916	448	1364	14.6
3SR2/5			264	368	632	8.9
3SR2/8			332	368	699	9.2
3SR2/12			422	388	810	10.2
3SR2/17			535	408	942	11.5
3SR2/25	**1" NPT**	**76**	715	448	1163	13.5
3SR4/3			247	368	614	8.7
3SR4/5			311	368	678	9.0
3SR4/7			374	388	762	9.8
3SR4/10			470	408	878	11.0
3SR4/14			598	448	1045	12.7
3SR5/3			299	368	666	8.8
3SR5/5			399	368	766	9.2
3SR5/8			550	388	937	10.5
3SR5/11			700	408	1108	12.1
3SR5/15			901	448	1349	14.2