



3" submersible pumps



Clean water
(Maximum
sand content 150 g/m³)



Domestic use



Civil use

PERFORMANCE RANGE

- Flow rate up to **110 l/min (6.6 m³/h)**
- Head up to **251 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m³**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Installation::
 - vertical
 - horizontal up to 0.37 kW
- Starts/hour: **20** at regular intervals
- Minimum flow rate for motor cooling **8 cm/s**
- Continuous service **S1**

INSTALLATION AND USE

3" submersible pumps suitable for pumping clean water for many applications such as domestic supply, irrigation and water systems for small communities.

ELECTRIC MOTOR

- Oil filled rewindable motors (food grade, non-toxic oil)
- Voltage:
 - Single phase **220 V - 60 Hz**
 - Three phase **380 V - 60 Hz**
- Insulation:: **class F**
- Protection: **IP 68**
- Shaft and jacket: **AISI 304** stainless steel
- Dimensions of the flange connection in compliance with **NEMA** standard
- 1.5 m long power cable

PATENTS

- Patent n° EP3123031, EP2419642

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



OPTIONS AVAILABLE ON REQUEST

- Pump body with ISO 228/1 threaded ports
- Other voltages

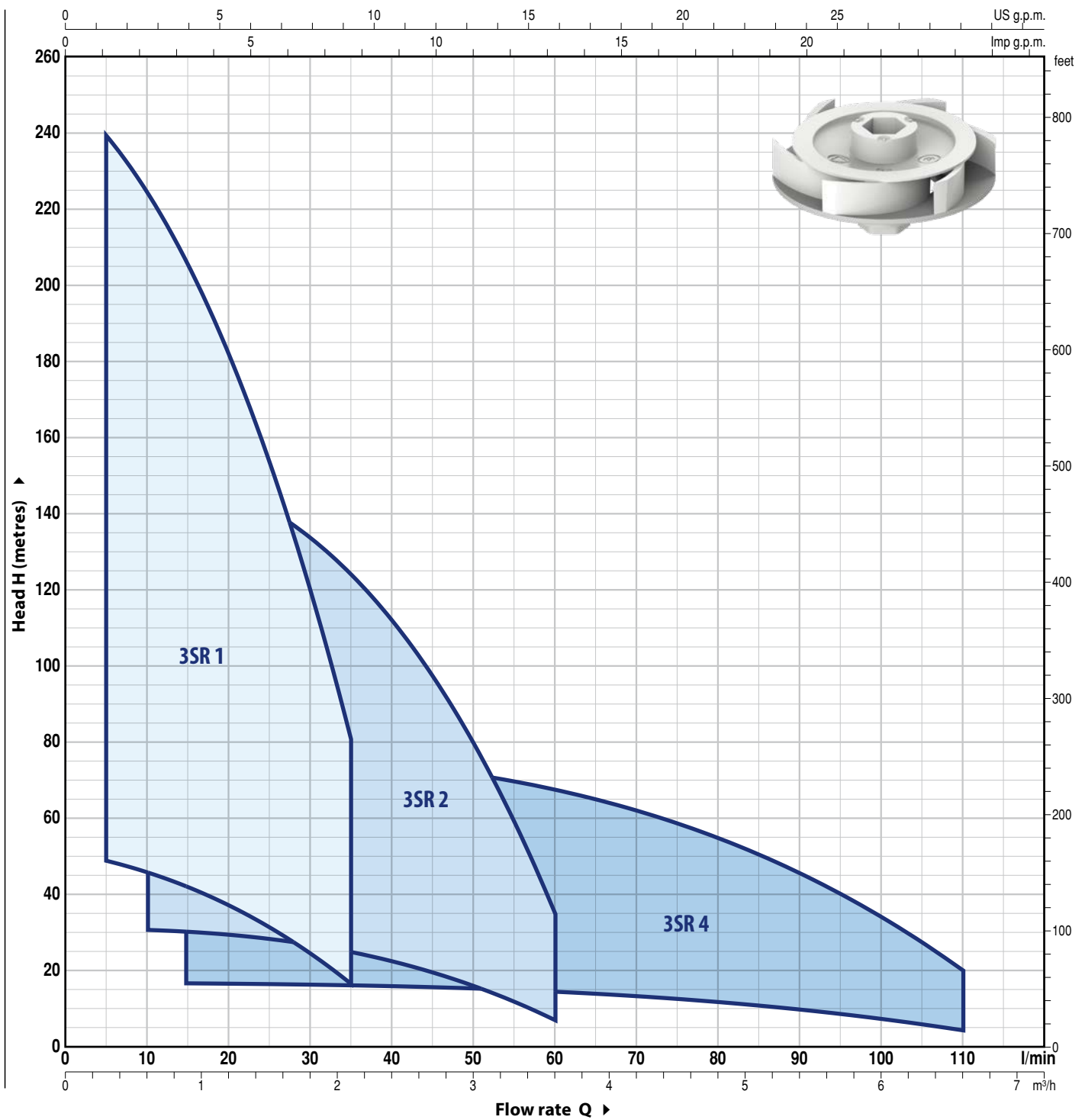
GUARANTEE

2 years subject to terms and conditions



PERFORMANCE RANGE

60 Hz n= 3450 min⁻¹



THE ADVANTAGES FOR THE USER

Economic savings on the use of water thanks to the high efficiency and the consequent reduced electricity consumption. With a diameter of only 3 inches, the costs of drilling a new well and the installation are greatly reduced.

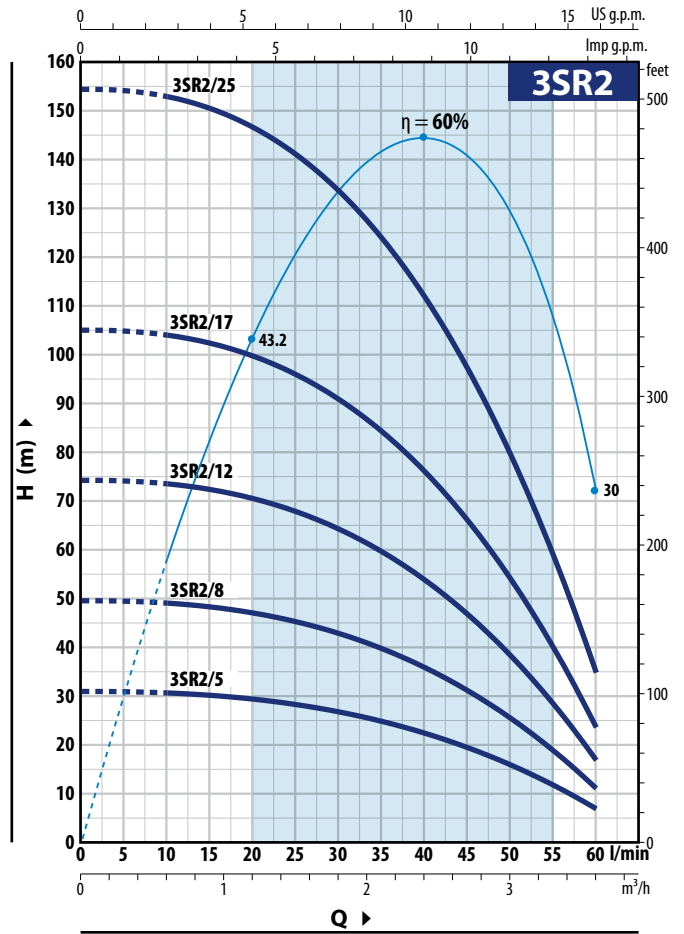
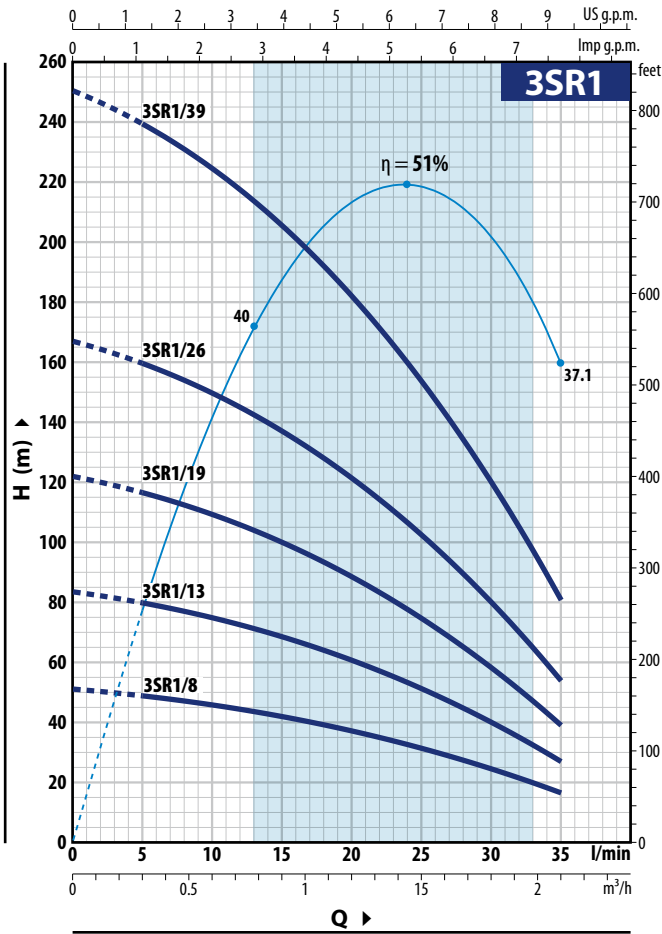
In the case of pre-existing drilling the 3SR pump is the ideal replacement solution, especially in the presence of old and encrusted wells. The construction with floating impellers allows the pumping of water with sand content of up to **150 g/m³**.

HIGH PERFORMANCE

The hydraulic components, coupled to a high performance electric motor, make the 3SR pump extremely efficient in 3" category

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min⁻¹



3SR1

MODEL		POWER (P ₂)		Q	H metres								
Single-phase	Three-phase	kW	HP		m ³ /h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1
				l/min	0	5	10	15	20	25	30	35	
3SRm 1/8	3SR 1/8	0.25	0.33		51.5	49	46	42	37.5	31.5	24.7	16.5	
3SRm 1/13	3SR 1/13	0.37	0.50		84	80	75	68.5	61	51.5	40	27	
3SRm 1/19	3SR1/19	0.55	0.75		122	117	110	100	89	75	58.5	39.5	
3SRm 1/26	3SR 1/26	0.75	1		167	160	150	137	122	103	80	54	
3SRm 1/39	3SR 1/39	1.1	1.5		251	240	225	206	182	154	120	81	

3SR2

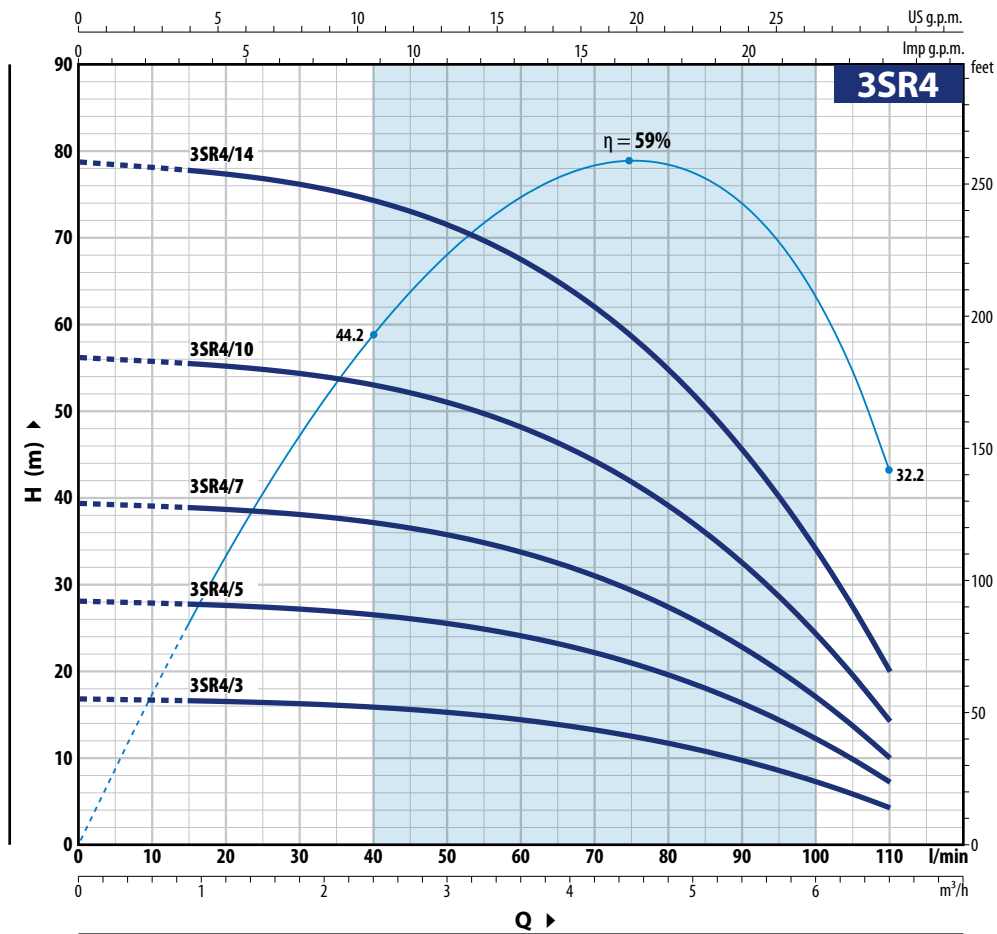
MODEL		POWER (P ₂)		Q	H metres								
Single-phase	Three-phase	kW	HP		m ³ /h	0	0.6	0.9	1.2	1.8	2.4	3	3.6
				l/min	0	10	15	20	30	40	50	60	
3SRm 2/5	3SR 2/5	0.25	0.33		31	30.5	30	29.5	26.7	22.4	15.9	7	
3SRm 2/8	3SR 2/8	0.37	0.50		49.5	49	48	47	42.5	36	25.4	11	
3SRm 2/12	3SR 2/12	0.55	0.75		74	73	72	70	64	53.5	38	16.5	
3SRm 2/17	3SR 2/17	0.75	1		105	104	102	100	91	76	54	23.5	
3SRm 2/25	3SR 2/25	1.1	1.5		154	153	150	147	134	112	80	34.5	

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 min⁻¹



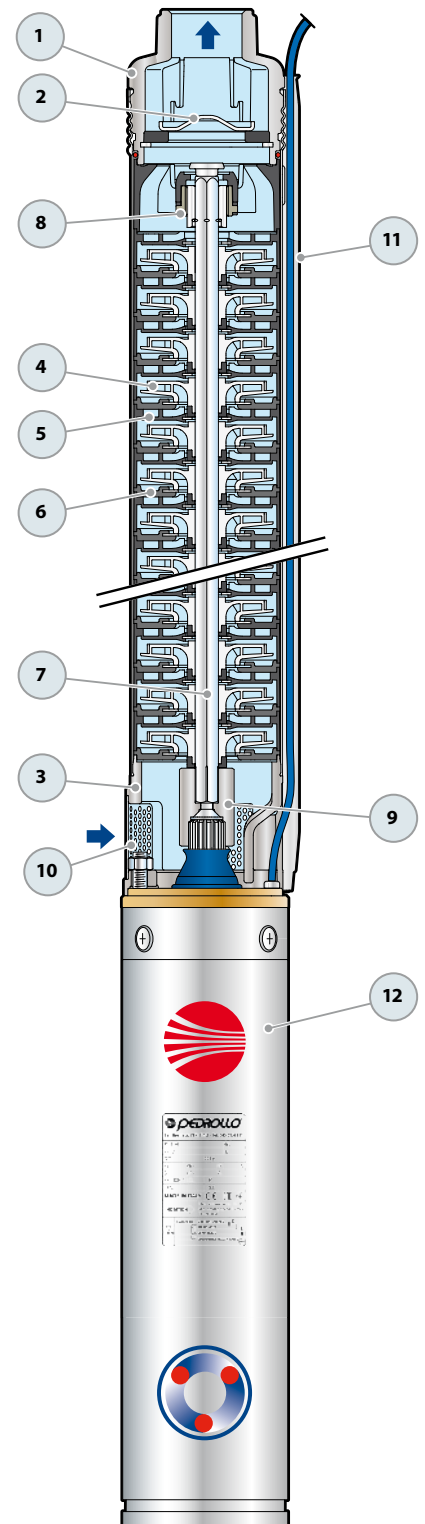
3SR4

MODEL		POWER (P ₂)		Q	H metres							
Single-phase	Three-phase	kW	HP		0	0.9	1.8	2.4	3	4.2	5.4	6.6
				0	0	15	30	40	50	70	90	110
3SRm 4/3	3SR 4/3	0.25	0.33	17	16.5	16.3	15.9	15.3	13.3	9.7	4.5	
3SRm 4/5	3SR 4/5	0.37	0.50	28	28	27	26.5	25.5	22.1	16.2	7	
3SRm 4/7	3SR 4/7	0.55	0.75	39.5	39	38	37	35.5	31	22.7	10	
3SRm 4/10	3SR 4/10	0.75	1	56.5	55.5	54.5	53	51	44.5	32.5	14	
3SRm 4/14	3SR 4/14	1.1	1.5	79	78	76	74	71	62	45.5	20	

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

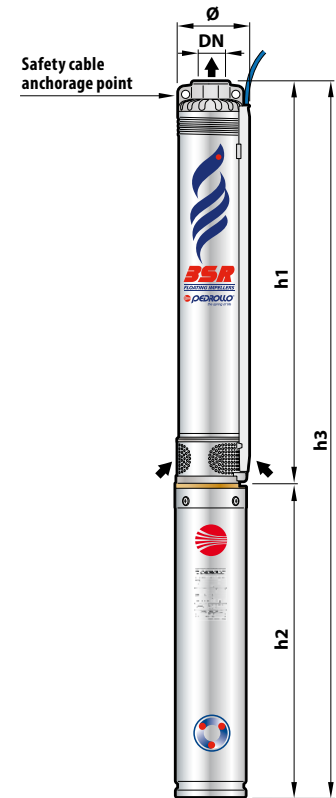
POS. COMPONENT	CONSTRUCTION CHARACTERISTICS
1 DELIVERY BODY	Precision cast stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1
2 NON-RETURN VALVE	Stainless steel AISI 304
3 MOTOR BRACKET	Precision cast stainless steel AISI 304, compliance with NEMA standards
4 IMPELLERS	Delrin
5 DIFFUSER	Noryl - Stainless steel AISI 304
6 DIFFUSER PLATE	Noryl - Stainless steel AISI 304
7 PUMP SHAFT	Stainless steel AISI 304
8 PUMP BEARINGS	Fixed part in special technopolymer. Rotating part in AISI 316L stainless steel coated with chromium oxide, for a longer life even in presence of sand.
9 DRIVE COUPLING	Stainless steel AISI 316L
10 FILTER	Stainless steel AISI 304
11 CABLE COVER	Stainless steel AISI 304
12 MOTOR 3"	<ul style="list-style-type: none"> - Oil filled rewindable motors (non-toxic oil for use with food) - 2 pole, 60 Hz ($n \sim 3450 \text{ min}^{-1}$) - Voltage: <ul style="list-style-type: none"> single-phase 220 V three-phase 380 V or 220 V - Insulation: classe F - Protection: IP 68 - Shaft and jacket: AISI 304 stainless steel - Dimensions of the flange connection in compliance with NEMA standards - 1.5 m long power cable



DIMENSIONS AND WEIGHT

MODEL	PORT	DIMENSIONS mm				kg
		Ø	h1	h2	h3	
Single-phase	DN					1~
3SRm 1/8	1" NPT	76	303	378	681	9.5
3SRm 1/13			397	378	775	10.0
3SRm 1/19			510	398	908	11.2
3SRm 1/26			642	438	1080	13.1
3SRm 1/39			917	478	1395	15.7
3SRm 2/5		76	264	378	642	9.3
3SRm 2/8			332	378	710	9.7
3SRm 2/12			422	398	820	10.8
3SRm 2/17			534	438	972	12.5
3SRm 2/25			714	478	1192	14.6
3SRm 4/3		76	248	378	626	9.2
3SRm 4/5			311	378	689	9.5
3SRm 4/7			375	398	773	10.4
3SRm 4/10			471	438	909	12.0
3SRm 4/14			598	478	1076	13.8

Three-phase	DN	Ø	DIMENSIONS mm			3~
			h1	h2	h3	
3SR 1/8	1" NPT	76	303	378	681	9.6
3SR 1/13			397	378	775	10.1
3SR1/19			510	398	908	11.4
3SR 1/26			642	438	1080	13.2
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3SR 2/25			714	438	1152	13.9
3SR 4/3		76	248	378	626	9.3
3SR 4/5			311	378	689	9.5
3SR 4/7			375	398	773	10.6
3SR 4/10			471	438	909	12.1
3SR 4/14			598	438	1036	13.1



ABSORPTION

Single-phase versions 220 V - 60Hz

MODEL	Rated power P ₂		Axial load N	Capacitor (VL=450V) µF	ABSORPTION	
	kW	HP			220V	
3SRm 1/8	0.25	0.33	800	12.5	2.4 A	
3SRm 1/13	0.37	0.50		12.5	3.1 A	
3SRm 1/19	0.55	0.75		16	4.2 A	
3SRm 1/26	0.75	1		20	5.5 A	
3SRm 1/39	1.1	1.5		30	8.0 A	
3SRm 2/5	0.25	0.33	800	12.5	2.4 A	
3SRm 2/8	0.37	0.50		12.5	3.1 A	
3SRm 2/12	0.55	0.75		16	4.2 A	
3SRm 2/17	0.75	1		20	5.5 A	
3SRm 2/25	1.1	1.5		30	8.0 A	
3SRm 4/3	0.25	0.33	800	12.5	2.4 A	
3SRm 4/5	0.37	0.50		12.5	3.1 A	
3SRm 4/7	0.55	0.75		16	4.2 A	
3SRm 4/10	0.75	1		20	5.5 A	
3SRm 4/14	1.1	1.5		30	8.0 A	

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

MODEL	Rated power P ₂		Axial load N	ABSORPTION	
	kW	HP		220 V	380 V
3SR 1/8	0.25	0.33	800	2.6 A	1.5 A
3SR 1/13	0.37	0.50		2.9 A	1.7 A
3SR1/19	0.55	0.75		3.6 A	2.1 A
3SR 1/26	0.75	1		4.5 A	2.6 A
3SR 1/39	1.1	1.5		6.1 A	3.5 A
3SR 2/5	0.25	0.33	800	2.6 A	1.5 A
3SR 2/8	0.37	0.50		2.9 A	1.7 A
3SR 2/12	0.55	0.75		3.6 A	2.1 A
3SR 2/17	0.75	1		4.5 A	2.6 A
3SR 2/25	1.1	1.5		6.1 A	3.5 A
3SR 4/3	0.25	0.33	800	2.6 A	1.5 A
3SR 4/5	0.37	0.50		2.9 A	1.7 A
3SR 4/7	0.55	0.75		3.6 A	2.1 A
3SR 4/10	0.75	1		4.5 A	2.6 A
3SR 4/14	1.1	1.5		6.1 A	3.5 A