

NOCCHI SCM 4 PLUS

ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

MAXIMUM STRENGTH AND RESISTANCE TO WATER HAMMER EFFECT, HIGH RESISTANCE TO ABRASION BY SAND, OPTIMAL HYDRAULIC PERFORMANCE

SCM 4 PLUS submersible pumps comprise a multi-stage pump unit coupled directly with a submersible motor. Ideal for lifting water from deep wells, with \varnothing 4" (100 mm).

APPLICATIONS

- Lifting from bore hole wells.
- Automatic garden irrigation systems.
- Gravity irrigation for agricultural use.
- Drinking water aqueducts.
- Lifting and supply of storage deposits or pressure autoclaves, for civil and industrial systems.

APPLICATION DATA

- Type of liquid: clean, non aggressive, non explosive, free of solid bodies.
- Maximum liquid temperature: 35°C.
- Max. hourly start-ups: 30.
- Motor protection with thermal cut-out to be fitted by user.

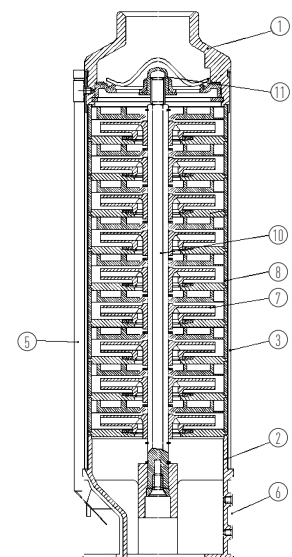
MOTOR

- Submerged motor of 4".
- Stator sealed and set in special resin.
- Thrust bearings and bushings, water-cooled.
- Removable power cable, approx. 1.75 m.
- Non-polluting water cooling.
- NEMA 4" flange.
- Protection rating IP 68.
- Insulation class B.
- Rotation speed 2850 rpm.
- Special mechanical gasket with sand-proof protection.



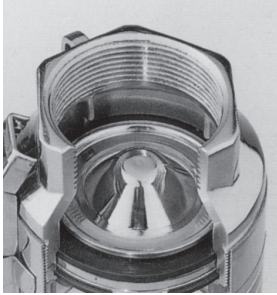
TABLE OF MATERIALS

Component		Material
1	Delivery port	Microcast stainless steel X5 CrNi1810 (AISI 304)
2	Suction flange	Microcast stainless steel X5 CrNi1810 (AISI 304)
3	Pump body	Stainless steel X5 CrNi 1810 (AISI 304)
4	Check valve	Stainless steel X5 CrNi 1810 (AISI 304)
5	Cable protection ducting	Stainless steel X5 CrNi 1810 (AISI 304)
6	Filter	Stainless steel X5 CrNi 1810 (AISI 304)
7	Impellers	Acetal resin
8	Diffuser	Polycarbonate with ceramic insert at point of wear
9	Diffuser cap	Polycarbonate with ceramic insert at point of wear
10	Motor shaft	Hexagonal in stainless steel X10 CrNiS1809 (AISI 303) with ceramic coating at point of wear
11	Self-lubricating delivery bearing	Molybdenum bisulphide filled polyamide
-	Thrust ring inserted in each stage	



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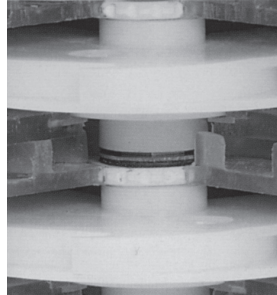
ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR



Delivery port in microcast AISI 304 stainless steel with a double internal tapered profile and stainless steel check valve and double slot for the safety cable.

ADVANTAGES:

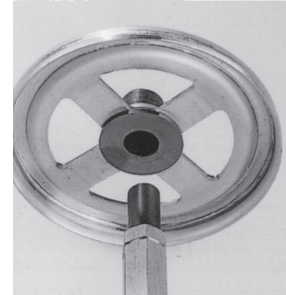
Eliminates pressure drops and offers maximum strength and resistance to water hammer effect to enhance pump protection.



Floating impeller with shim ring on suction port in stainless steel, comolded with a diffuser cover. Thrust bearing inserted between the impeller hub and diffuser formed by 1 ceramic ring comolded with the diffuser and one free graphite ring. "International Patent"

ADVANTAGES:

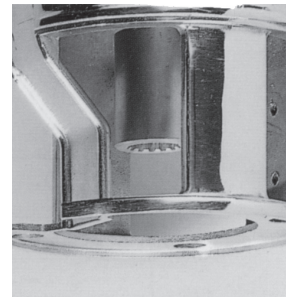
This remarkable technological innovation achieves a significant increase in performance, combined with optimal resistance to abrasion by sand and protection against dry running.



Shaft guide bearing with self-lubricating closed bushing in molybdenum bisulphide filled polyamide and stainless steel shaft with ceramic coating at the point of wear.

ADVANTAGES:

Increased pump lifetime - protection against dry running - optimal resistance to wear by sand.



Motor bracket and suction outlet in microcast AISI 304 stainless steel, rigidly welded to the external stainless steel jacket. Suction grille in stainless steel.

ADVANTAGES:

Eliminates pressure drops and offers maximum strength and resistance to water hammer effect to enhance pump protection.

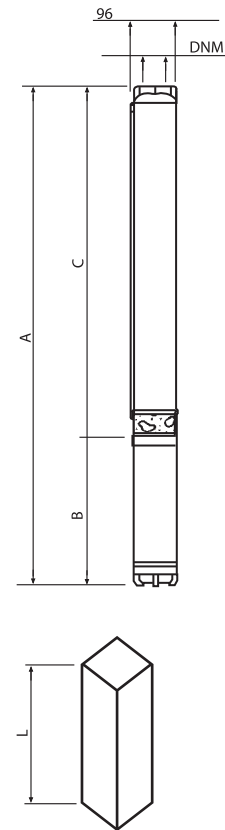


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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

PUMP LENGTH CALCULATION TABLE

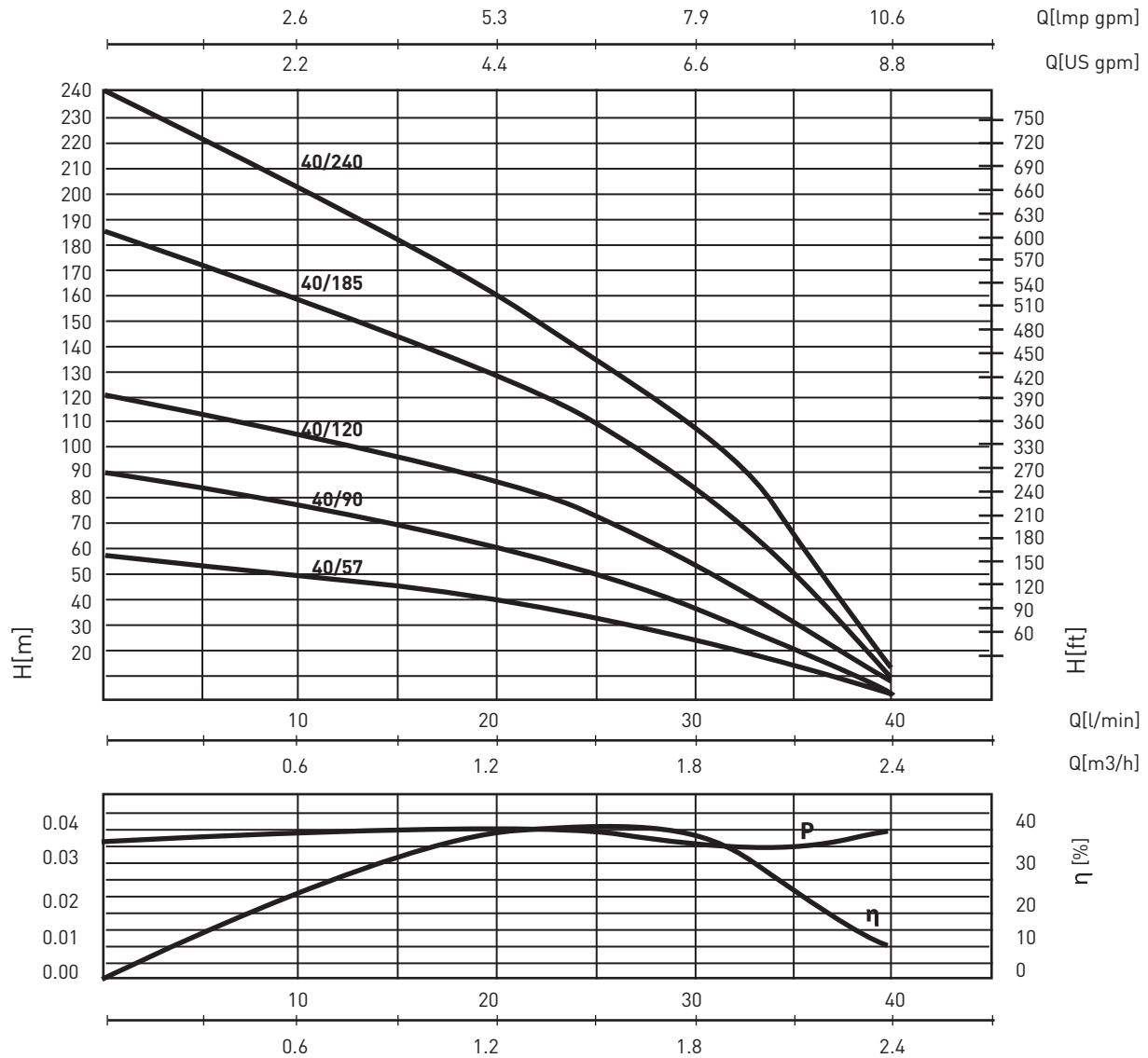
MODEL	A Total length mm	B Total length mm	C Total length mm	DNM	L Packaging length mm	Weight total kg	
SCM 4 PLUS 40/57 M	584	250	334		610	11.8	
SCM 4 PLUS 40/57 T	569	235	334		610	10.8	
SCM 4 PLUS 40/90 M	711	265	446		800	14	
SCM 4 PLUS 40/90 T	696	250	446		800	12.7	
SCM 4 PLUS 40/120 M	853	295	558		960	16.1	
SCM 4 PLUS 40/120 T	823	265	558		960	14.9	
SCM 4 PLUS 40/185 M	1122	340	782		1330	19.2	
SCM 4 PLUS 40/185 T	1077	295	782		1120	17.9	
SCM 4 PLUS 40/240 M	1358	375	983		1580	22.2	
SCM 4 PLUS 40/240 T	1323	340	983		1330	20.8	
SCM 4 PLUS 55/50 M	517	250	267		610	11.3	
SCM 4 PLUS 55/50 T	502	235	267		610	10.3	
SCM 4 PLUS 55/80 M	622	265	357		800	13.1	
SCM 4 PLUS 55/80 T	607	250	357		800	11.8	
SCM 4 PLUS 55/105 M	696	295	401		800	14.9	
SCM 4 PLUS 55/105 T	666	265	401		800	13.7	
SCM 4 PLUS 55/160 M	875	340	535		960	17.3	
SCM 4 PLUS 55/160 T	830	295	535		960	16	
SCM 4 PLUS 55/200 M	1045	375	670	1120	19.8		
SCM 4 PLUS 55/200 T	1010	340	670	1120	18.4		
SCM 4 PLUS 55/300 T	1336	375	961	1580	22.3		
SCM 4 PLUS 75/40 M	553	250	303	1 1/4"	610	11.2	
SCM 4 PLUS 75/40 T	538	235	303		610	10.2	
SCM 4 PLUS 75/56 M	625	265	360		800	12.9	
SCM 4 PLUS 75/56 T	610	250	360		800	11.6	
SCM 4 PLUS 75/75 M	740	295	445		800	14.8	
SCM 4 PLUS 75/75 T	710	265	445		800	13.6	
SCM 4 PLUS 75/110 M	928	340	588		960	17.1	
SCM 4 PLUS 75/110 T	883	295	588		960	15.8	
SCM 4 PLUS 75/140 M	1077	375	702		1120	19.4	
SCM 4 PLUS 75/140 T	1042	340	702		1120	18	
SCM 4 PLUS 75/210 T	1391	375	1016		1580	21.5	
SCM 4 PLUS 115/30 M	496	250	246			610	11
SCM 4 PLUS 115/30 T	481	235	246	610		10	
SCM 4 PLUS 115/50 M	596	265	331	610		12.8	
SCM 4 PLUS 115/50 T	581	250	331	610		11.5	
SCM 4 PLUS 115/65 M	683	295	388	800		14.4	
SCM 4 PLUS 115/65 T	653	265	388	800		13.2	
SCM 4 PLUS 115/95 M	842	340	502	960		16.6	
SCM 4 PLUS 115/95 T	797	295	502	960		15.3	
SCM 4 PLUS 115/122 M	992	375	617	1120		18.8	
SCM 4 PLUS 115/122 T	957	340	617	960		17.4	
SCM 4 PLUS 115/185 T	1221	375	846	1330		20.8	
SCM 4 PLUS 115/245 T	1582	480	1102	1870		25	
SCM 4 PLUS 150/42 M	648	295	353	2"	800	14	
SCM 4 PLUS 150/42 T	618	265	353		800	12.8	
SCM 4 PLUS 150/64 M	803	340	463		960	16.1	
SCM 4 PLUS 150/64 T	758	295	463		800	14.8	
SCM 4 PLUS 150/84 M	948	375	573		960	18.3	
SCM 4 PLUS 150/84 T	913	340	573		960	16.9	
SCM 4 PLUS 150/120 T	1161	375	786		1330	20.1	
SCM 4 PLUS 150/170 T	1523	480	1043		1580	24.2	
SCM 4 PLUS 150/200 T	1781	555	1226		1870	33.1	
SCM 4 PLUS 150/300 T	2378	675	1703		2590	42.3	
SCM 4 PLUS 250/53 M	970	375	595		2590	1120	18
SCM 4 PLUS 250/53 T	935	340	595			960	15.6
SCM 4 PLUS 250/78 T	1205	375	830	1330		18	
SCM 4 PLUS 250/100 T	1516	480	1036	1870		23.9	
SCM 4 PLUS 250/127 T	1798	555	1243	1870		29.6	
SCM 4 PLUS 250/185 T	2433	675	1758	2590		42.6	



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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. % η indicates the hydraulic performance of the pump

MEI \geq 0.1 - MEI reference \geq 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

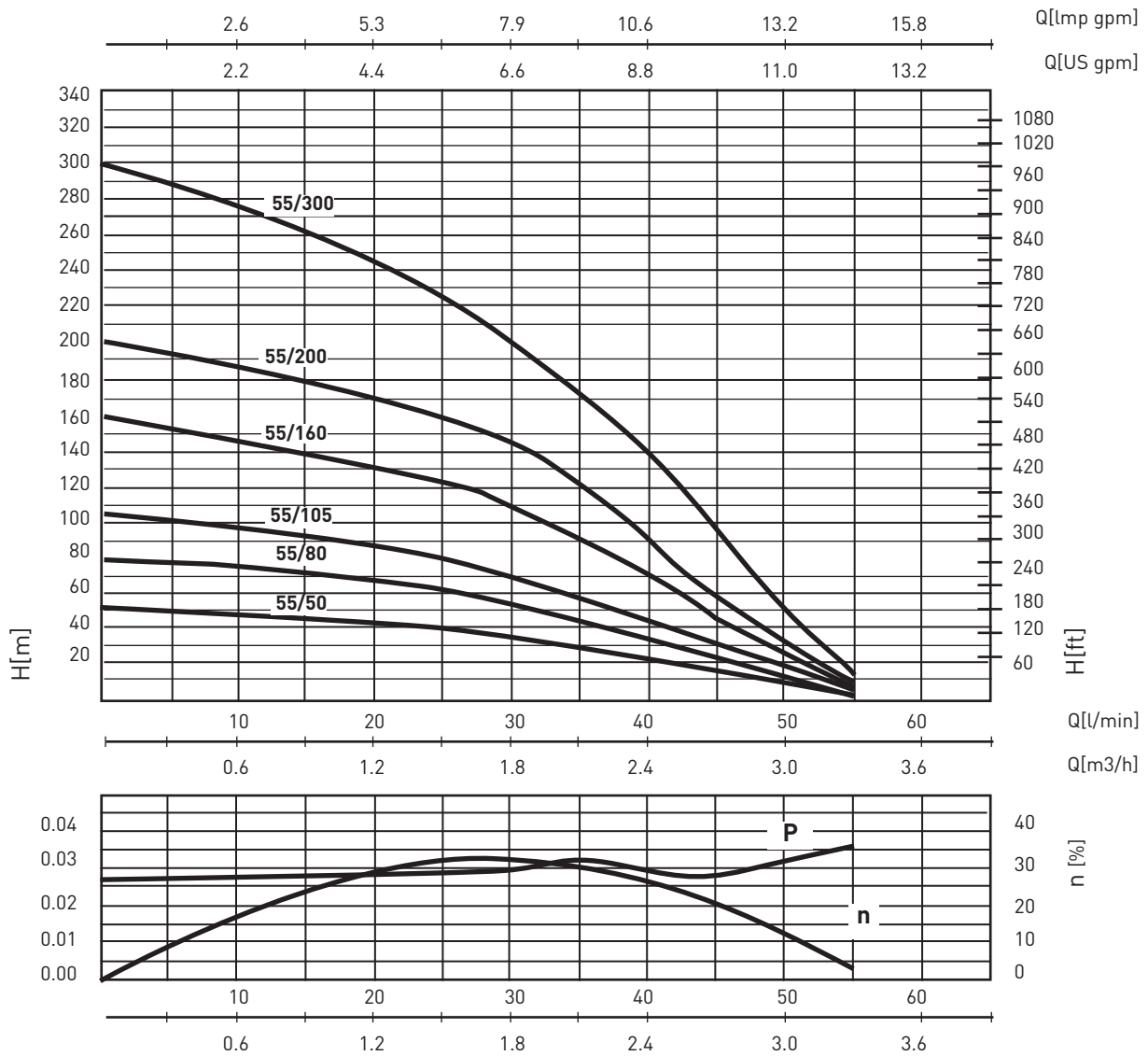
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F	Q	L/min	10	20	30	40	\emptyset DNM
		HP	kW					m³/h	0.6	1.2	1.8	2.4	
SCM 4 PLUS-40/57 M SCM 4 PLUS-40/57 T	9	0.5	0.37	1 ~ 230 V 3 ~ 400 V	3.4 1.2	16	m.c.a. / m.w.c.	49	41	26	3	1"1/4	
SCM 4 PLUS-40/90 M SCM 4 PLUS-40/90 T	14	0.75	0.55	1 ~ 230 V 3 ~ 400 V	4.4 1.7	20		76	64	40	4		
SCM 4 PLUS-40/120 M SCM 4 PLUS-40/120 T	19	1	0.75	1 ~ 230 V 3 ~ 400 V	5.9 2.2	30		104	86	55	7		
SCM 4 PLUS-40/185 M SCM 4 PLUS-40/185 T	29	1.5	1.1	1 ~ 230 V 3 ~ 400 V	7.8 3	40		158	130	85	10		
SCM 4 PLUS-40/240 M SCM 4 PLUS-40/240 T	38	2	1.5	1 ~ 230 V 3 ~ 400 V	10.2 4	50		205	160	110	12		

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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



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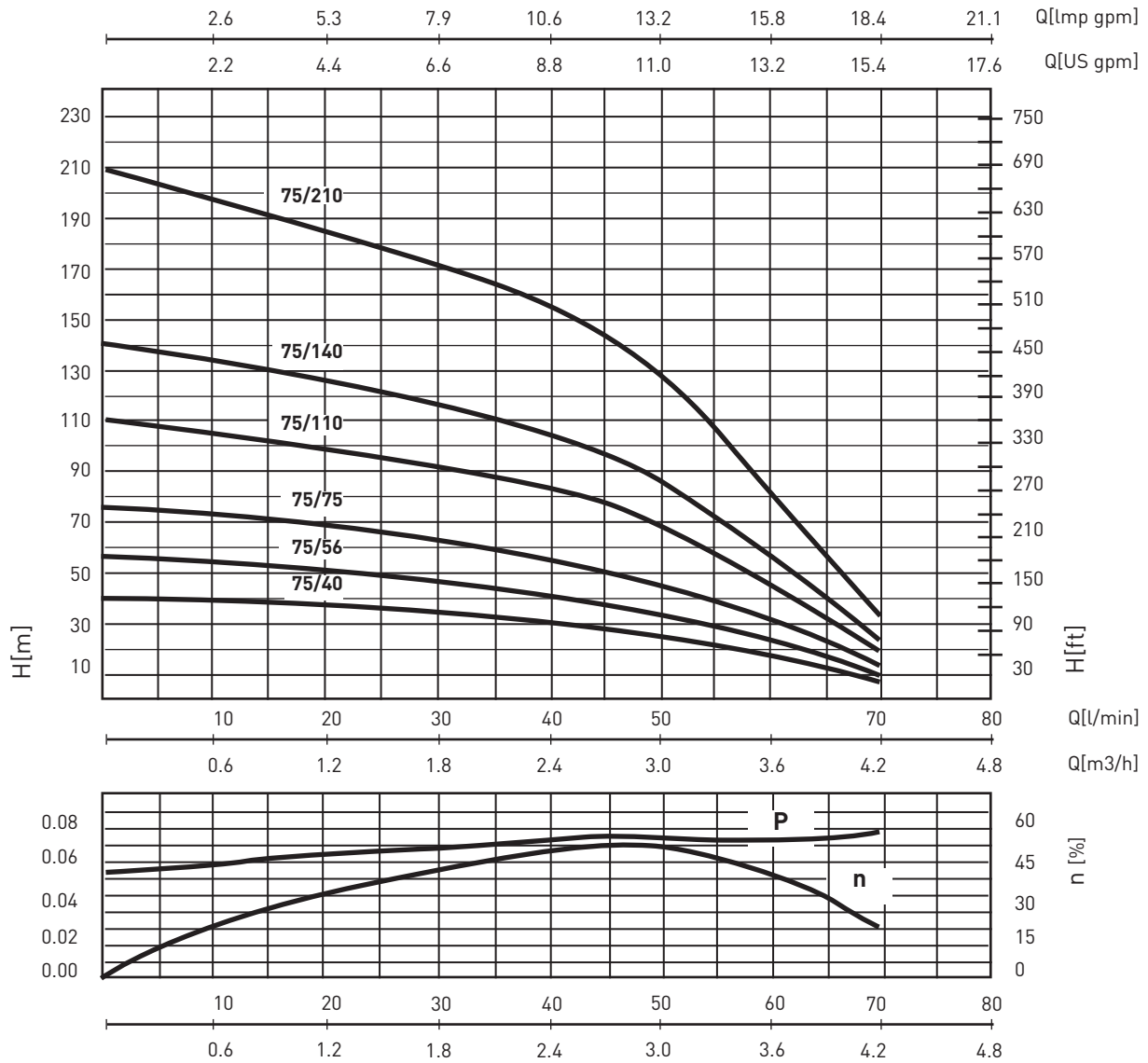
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F.	Q	L/min	10	20	30	40	50	\emptyset DNM
		HP	kW					m³/h	0.6	1.2	1.8	2.4	3	
SCM 4 PLUS-55/50 M SCM 4 PLUS-55/50 T	6	0.5	0.37	1 - 230 V 3 - 400 V	3.4 1.2	16	m.c.a. / m.w.c.	47	42	36	23	8	1"1/4	
SCM 4 PLUS-55/80 M SCM 4 PLUS-55/80 T	10	0.75	0.55	1 - 230 V 3 - 400 V	4.4 1.7	20		75	66	55	35	12		
SCM 4 PLUS-55/105 M SCM 4 PLUS-55/105 T	12	1	0.75	1 - 230 V 3 - 400 V	5.9 2.2	30		98	87	72	46	12		
SCM 4 PLUS-55/160 M SCM 4 PLUS-55/160 T	18	1.5	1.1	1 - 230 V 3 - 400 V	7.8 3	40		145	132	110	70	24		
SCM 4 PLUS-55/200 M SCM 4 PLUS-55/200 T	24	2	1.5	1 - 230 V 3 - 400 V	10.2 4	50		187	169	145	90	30		
SCM 4 PLUS-55/300 T	37	3	2.2	3 - 400 V	5.6			278	244	200	140	50		

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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



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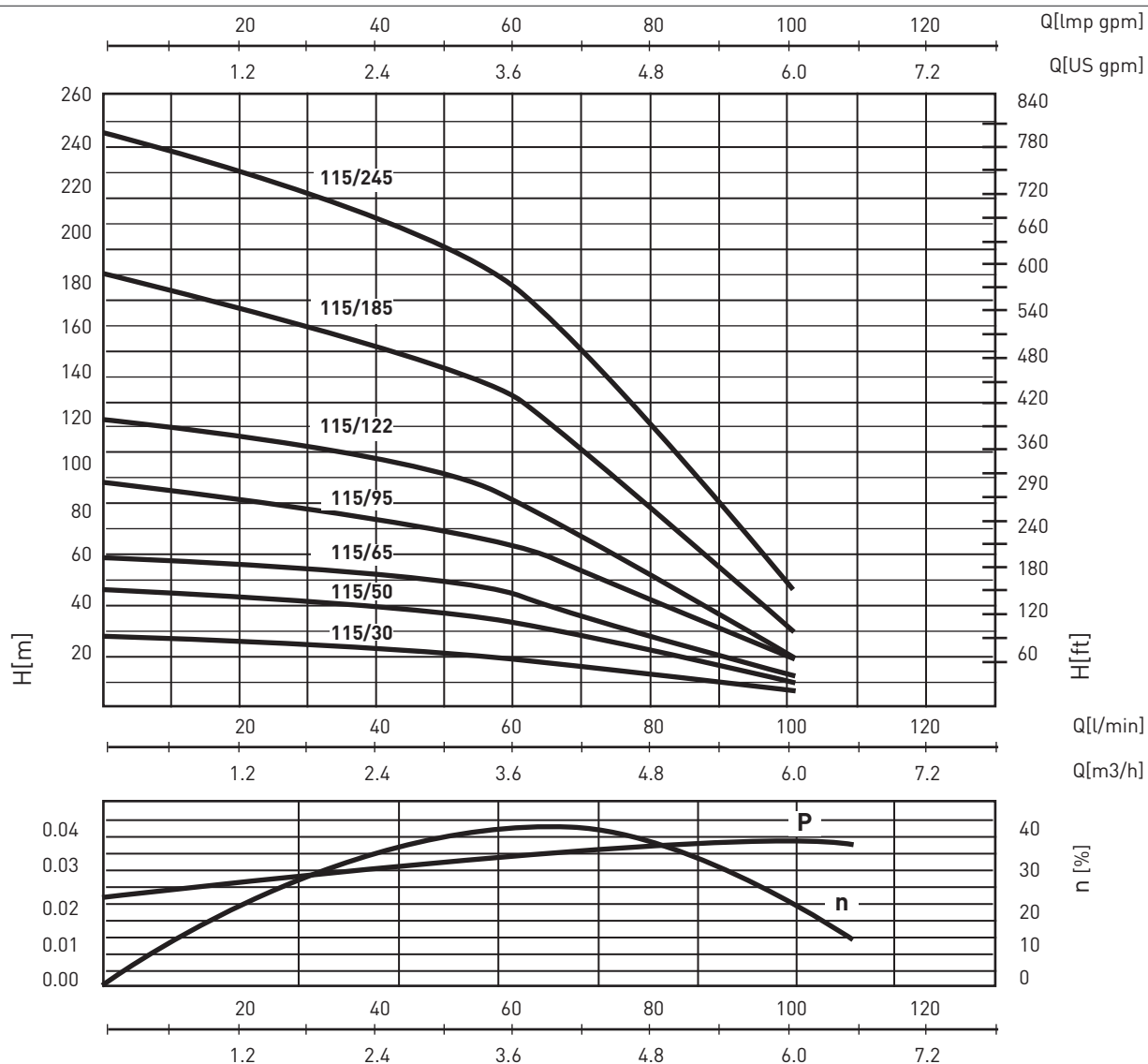
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	I _n (A)	μF.	Q	L/min	20	30	40	50	60	Ø DNM
		HP	kW					m³/h	1.2	1.8	2.4	3	3.6	
SCM 4 PLUS-75/40 M SCM 4 PLUS-75/40 T	6	0.5	0.37	1 - 230 V 3 - 400 V	3.4 1.2	16	n.c.a. / m.w.c.	36	33	28	23	15	1" 1/4	
SCM 4 PLUS-75/56 M SCM 4 PLUS-75/56 T	8	0.75	0.55	1 - 230 V 3 - 400 V	4.4 1.7	20		50	45	40	32	21		
SCM 4 PLUS-75/75 M SCM 4 PLUS-75/75 T SCM 4 PLUS-75/75 T	11	1	0.75	1 - 230 V 3 - 400 V 3 - 230 V	5.9 2.2 3.8	30		67	62	55	45	30		
SCM 4 PLUS-75/110 M SCM 4 PLUS-75/110 T	16	1.5	1.1	1 - 230 V 3 - 400 V	7.8 3	40		100	92	82	68	44		
SCM 4 PLUS-75/140 M SCM 4 PLUS-75/140 T	20	2	1.5	1 - 230 V 3 - 400 V	10.2 4	50		127	116	105	86	57		
SCM 4 PLUS-75/210 T	30	3	2.2	3 - 400 V	5.6			186	170	155	130	80		

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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump
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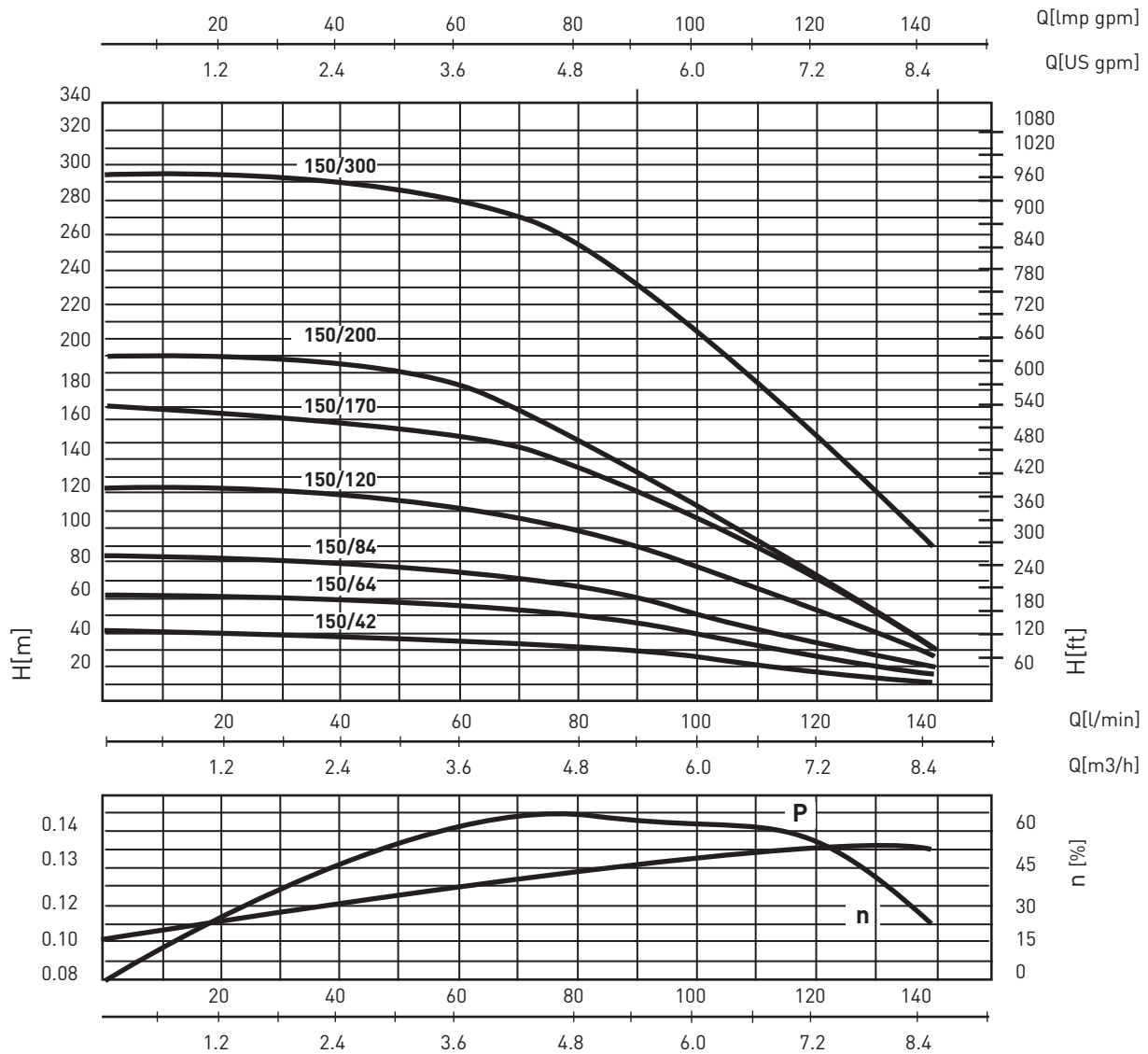
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F.	Q	L/min	30	40	50	60	80	90	100	\emptyset DNM
		HP	kW					m³/h	1.8	2.4	3	3.6	4.8	5.4	6	
SCM 4 PLUS-115/30 M SCM 4 PLUS-115/30 T	4	0.5	0.37	1 ~ 230 V 3 ~ 400 V	3.4 1.2	16	m.c.a. / m.w.c.	26	24	22	20	13	9	6.4	1 1/4	
SCM 4 PLUS-115/50 M SCM 4 PLUS-115/50 T	7	0.75	0.55	1 ~ 230 V 3 ~ 400 V	4.4 1.7	20		46	43	40	36	23	16	10		
SCM 4 PLUS-115/65 M SCM 4 PLUS-115/65 T SCM 4 PLUS-115/65 T	9	1	0.75	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	5.9 2.2 3.8	30		58	55	51	46	29	20	11		
SCM 4 PLUS-115/95 M SCM 4 PLUS-115/95 T SCM 4 PLUS-115/95 T	13	1.5	1.1	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	7.8 3 5.2	40		83	80	74	67	43	30	18		
SCM 4 PLUS-115/122 M SCM 4 PLUS-115/122 T	17	2	1.5	1 ~ 230 V 3 ~ 400 V	10.2 4	50		109	106	98	88	55	38	21		
SCM 4 PLUS-115/185 T	24	3	2.2	3 ~ 400 V	5.6			160	153	143	130	85	58	31		
SCM 4 PLUS-115/245 T	33	4	3	3 ~ 400 V	7.5			218	210	198	179	118	84	47		

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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p indicates the hydraulic performance of the pump

MEI \geq 0.1 - MEI reference \geq 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

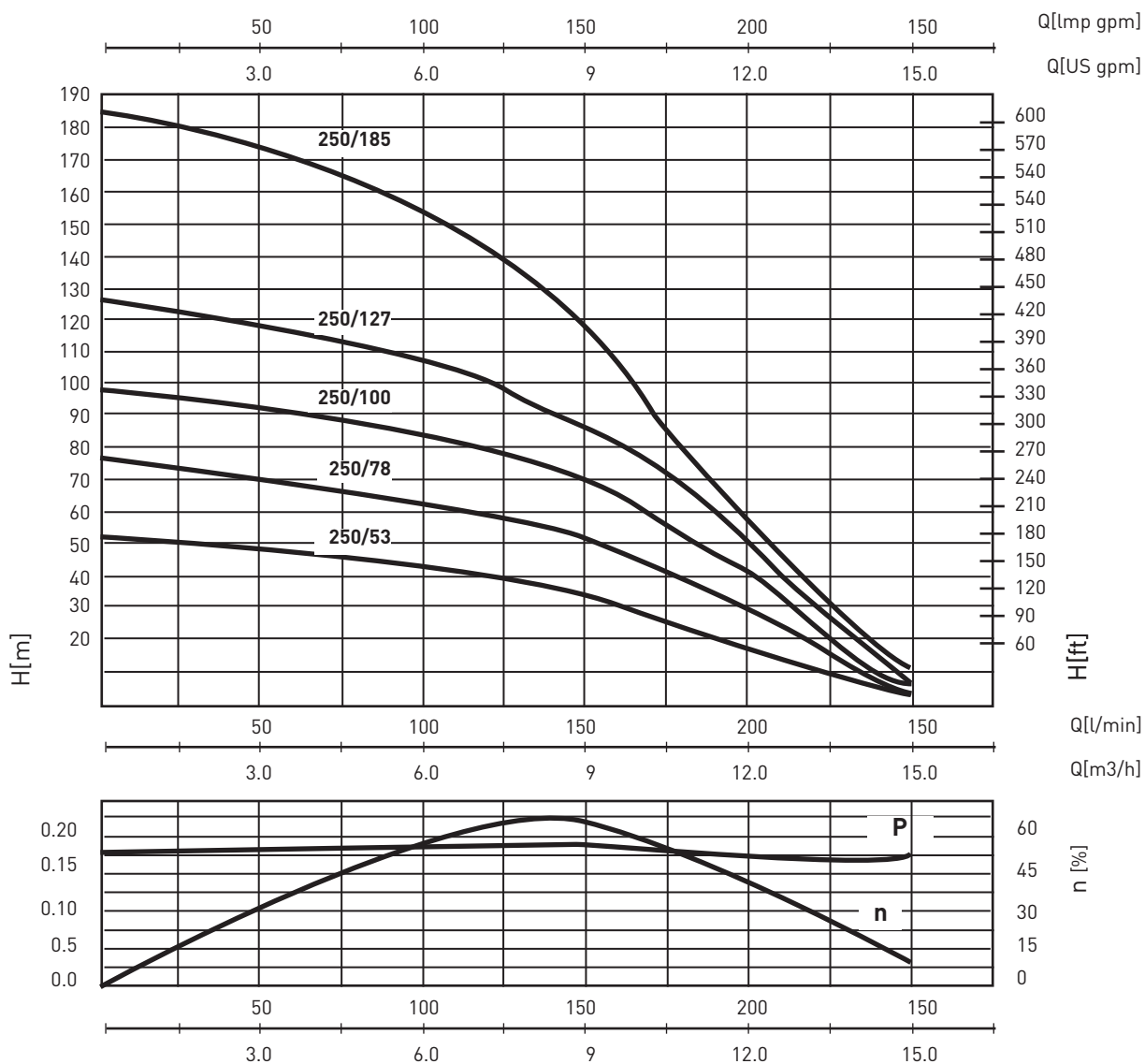
PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F.	Q	L/min							\emptyset DNM	
		HP	kW					40	50	60	80	100	120	140		
								m³/h	2.4	3	3.6	4.8	6	7.2	8.4	
SCM 4 PLUS-150/42 M SCM 4 PLUS-150/42 T SCM 4 PLUS-150/42 T	6	1	0.75	1 ~ 230V 3 ~ 400 V 3 ~ 230 V	5.9 2.2 3.8	30	m.c.a. / m.w.c.		38	37	36	33	26	17	10	2"
SCM 4 PLUS-150/64 M SCM 4 PLUS-150/64 T SCM 4 PLUS-150/64 T	9	1.5	1.1	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	7.8 3 5.2	40		59	58	57	50	39	27	15		
SCM 4 PLUS-150/84 M SCM 4 PLUS-150/84 T SCM 4 PLUS-150/84 T	12	2	1.5	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	10.2 4 5.2	50		80	78	75	64	50	34	20		
SCM 4 PLUS-150/120 T	17	3	2.2	3 ~ 400 V	5.6			116	113	108	96	77	53	26		
SCM 4 PLUS-150/170 T	24	4	3	3 ~ 400 V	7.5			160	157	152	134	106	69	30		
SCM 4 PLUS-150/200 T	29	5.5	4	3 ~ 400 V	10.1			191	188	179	152	112	71	32		
SCM 4 PLUS-150/300 T	42	7.5	5.5	3 ~ 400 V	13.6			292	290	285	252	210	155	82		

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ELECTRIC SUBMERSIBLE MULTI-STAGE CENTRIFUGAL PUMP - 4" COMPLETE WITH MOTOR

HYDRAULIC PERFORMANCE



The power curve refers to the power at the shaft per stage. η_p % indicates the hydraulic performance of the pump
 MEI \geq 0.1 - MEI reference \geq 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PERFORMANCE TABLE

MODEL	N° stages	Power motor		VOLT	In (A)	μ F.	Q	L/min							\emptyset DNM
		HP	kW					100	120	140	180	200	220	240	
SCM 4 PLUS-250/53 M	9	2	1.5	1 - 230V	10.2	50	m.c.a. / m.w.c.	6	7.2	8.4	10.8	12	13.2	14.4	2"
SCM 4 PLUS-250/53 T				3 - 400 V	4										
SCM 4 PLUS-250/53 T				3 - 230 V	6.9										
SCM 4 PLUS-250/78 T	13	3	2.2	3 - 400 V	5.6										
SCM 4 PLUS-250/100 T	17	4	3	3 - 400 V	7.5										
SCM 4 PLUS-250/127 T	21	5.5	4	3 - 400 V	10.1										
SCM 4 PLUS-250/185 T	31	7.5	5.5	3 - 400 V	13.6										