FPS

SRF SERIES 50 HZ

4"/6" SUBMERSIBLE PUMPS

Franklin Electric

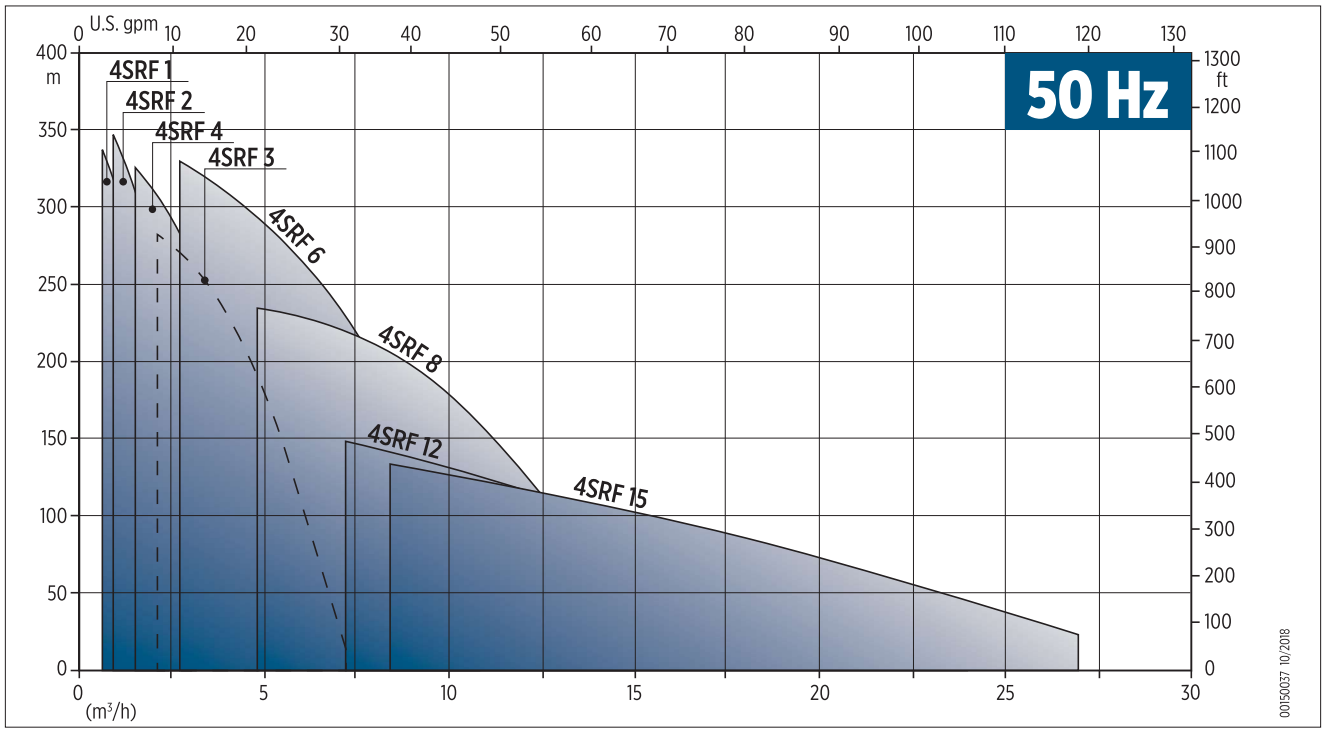
GENERAL FEATURES 6"

Model	6"					
	10	15	21	24	35	45
Nominal flow [m³/h]:	9	13,5	21	24	30	42
Liquid temperature range [°C]:	30 °C					
Max. ɲ hydraulic [%]:	65%	68%	68%	67%	68%	58%
Range [m³/h]:	3 - 17	6 - 21	9 - 33	12 - 36	18 - 48	24 - 63
Max. head [m]:	842	816	812	704	496	361
Discharge diameter:	3"					
Maximum allowable amount of sand:	60 g/m³					
Motor power [kW]:	2.2 - 26	3.0 - 37	1.5 - 45	3 - 45	3 - 45	7.5 - 45
Rotation:	Counter clockwise when looking into the discharge					
Operation:	Continuously in vertical or horizontal position					
Maximum pump diameter (including cable guard):	140 mm					
Motor support:	Supplied for connection to 4" motor (standard NEMA)					
Options (on request):	Check valve spring loaded for models with less than 19 stages Motor support 6" for models up to 5,5 kW Cooling shroud Double cable guard					

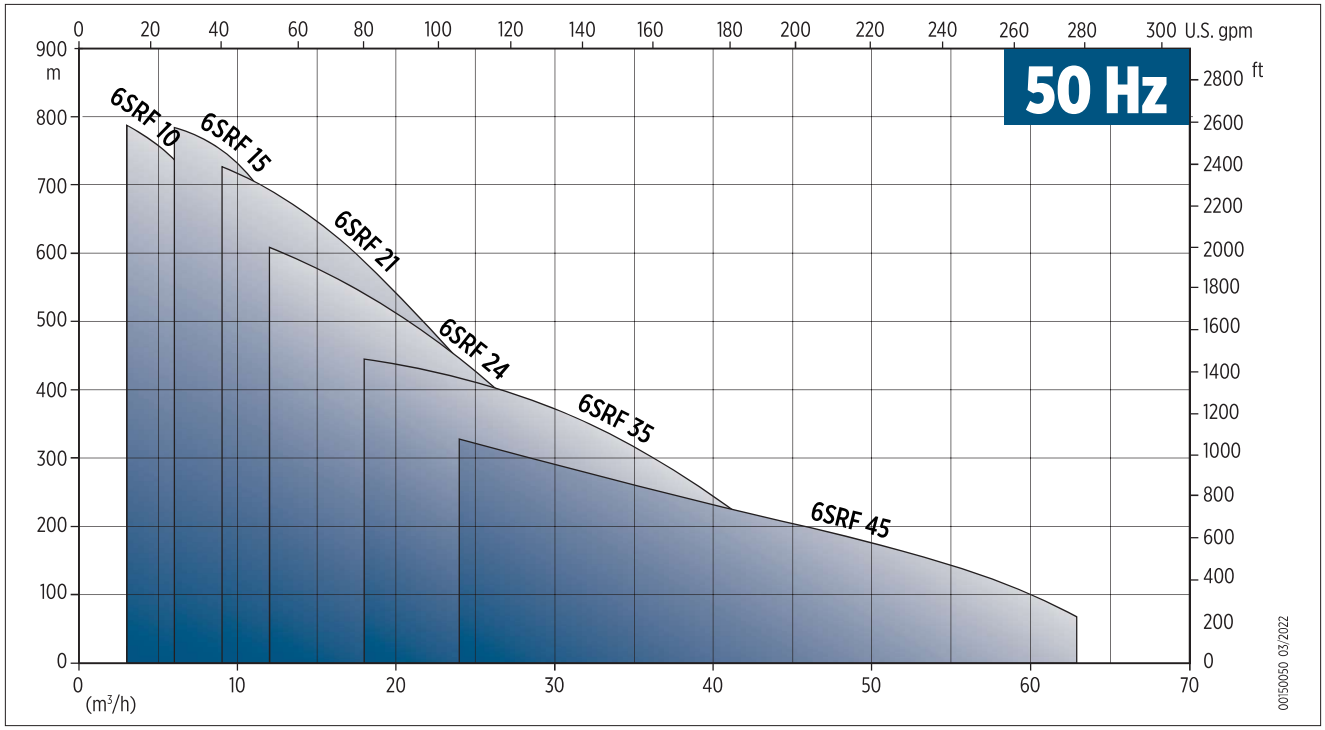
MOTOR SPECIFICATION

- Motor adapter in compliance with NEMA standard
- For more information consult the product catalog of Submersible motors

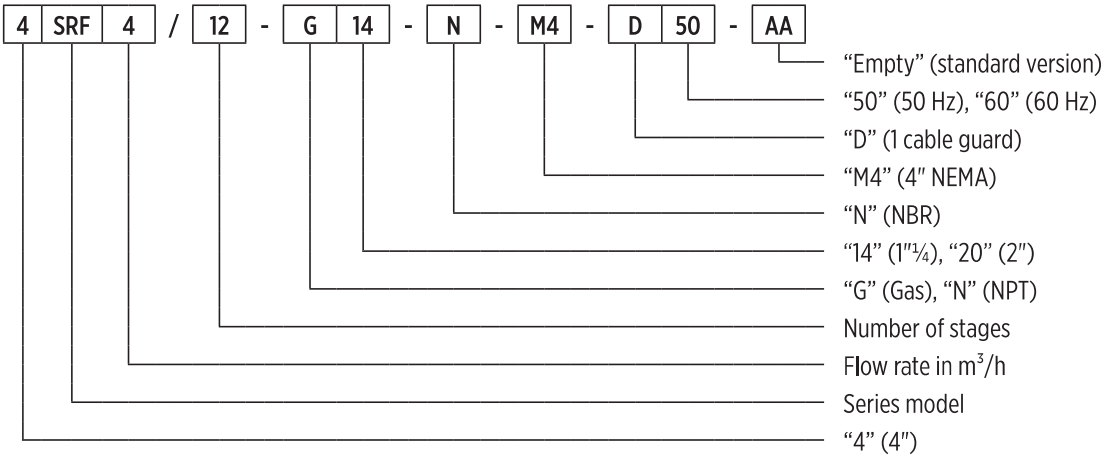
4SRF FAMILY CURVES



6SRF FAMILY CURVES

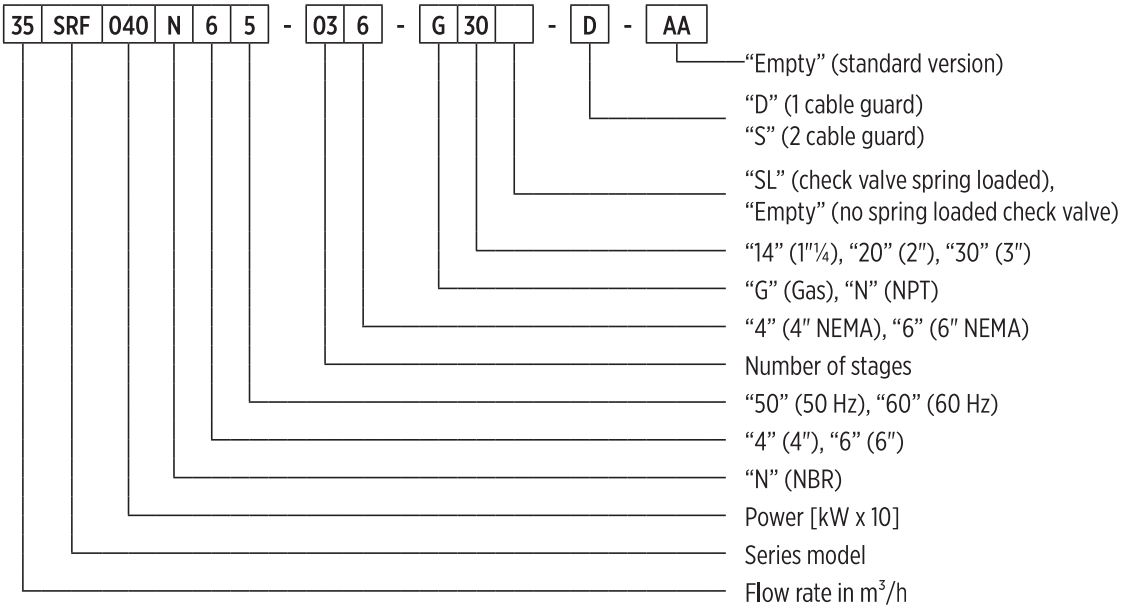


4SRF PUMP IDENTIFICATION CODE



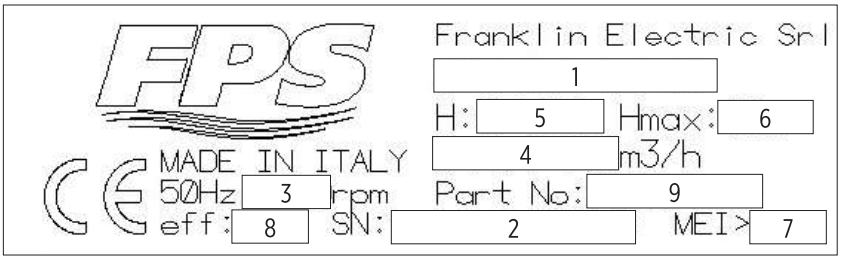
00140080 03/2021

6SRF PUMP IDENTIFICATION CODE



00140084 03/2022

PUMP RATING PLATE



1) Model
2) Serial number
3) Nominal Rpm
4) Delivery range
5) Head range
6) Maximum head
7) MEI index
8) Hydraulic efficiency
9) Code

6" HYDRAULIC PERFORMANCE AT 50 HZ - 2900rpm

6SRF 10-15-21

Pump model	No. stages	RATED POWER		Q = DELIVERY																			
				m³/h 0	1	3	5	6	8	9	11	12	13.5	15	17	18	21	24	27	30	33	36
				l/min 0	17	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600
		[kW]	[HP]	H = TOTAL M.HEAD OF WATER COLUMN [m]																			
6SRF 10	05	2.2	3	78		73	70	67	63	58	53	46	37	27	16								
	06	3.0	4	94		88	84	80	76	70	63	55	44	32	19								
	07	3.7	5	109		102	98	94	89	82	74	64	52	38	22								
	08	3.7	5	125		117	112	107	101	93	84	73	59	43	25								
	09	4.0	5.5	140		131	126	121	114	105	95	82	67	48	28								
	12	5.5	7.5	187		175	169	161	152	140	127	109	89	65	37								
	16	7.5	10	250		234	225	214	202	187	169	146	118	86	50								
	18	9.2	12.5	281		263	253	241	228	210	190	164	133	97	56								
	21	9.2	12.5	328		307	295	281	266	245	222	192	155	113	65								
	24	11.0	15	374		350	337	322	304	280	253	219	178	129	74								
	28	13.0	17.5	437		409	393	375	354	327	295	255	207	151	87								
	32	15.0	20	499		467	450	429	405	374	338	292	237	172	99								
	40	18.5	25	624		584	562	536	506	467	422	365	296	215	124								
	48	22.0	30	749		701	674	643	607	561	506	438	355	258	149								
	54	26.0	35	842		788	759	724	683	631	570	492	400	291	167								
	Efficiency			-		39%	47%	55%	61%	65%	65%	62%	54%	40%	-								
6SRF 15	05	3.0	4	79				75	74	71	68	64	58	52	45	37	15						
	06	4.0	5.5	94				90	88	86	81	76	70	63	54	44	17						
	07	5.5	7.5	110				106	103	100	95	89	82	73	63	51	20						
	08	5.5	7.5	126				121	118	114	109	102	93	83	72	58	23						
	09	5.5	7.5	141				136	133	128	122	115	105	94	81	66	26						
	12	7.5	10	188				181	177	171	163	153	140	125	108	88	35						
	15	9.2	12.5	236				226	221	214	204	191	175	156	135	110	44						
	18	11.0	15	283				271	265	257	244	229	210	188	162	131	52						
	21	13.0	17.5	330				317	309	299	285	267	245	219	189	153	61						
	24	15.0	20	377				362	354	342	326	306	280	250	216	175	70						
	30	18.5	25	471				452	442	428	407	382	350	313	269	219	87						
	35	22.0	30	550				528	516	499	475	446	408	365	314	256	102						
	40	26.0	35	628				603	589	570	543	509	466	417	359	292	116						
	45	30.0	40	707				679	663	641	611	573	524	469	404	329	131						
	52	37.0	50	816				784	766	741	706	662	606	542	467	380	151						
	Efficiency			-				54%	59%	64%	67%	68%	68%	64%	58%	46%	-						
6SRF 21	02	1.5	2	28						25	24	24	23	22	21	20	18	15	13	10	7		
	03	2.2	3	42						38	37	35	34	33	32	30	27	23	19	15	10		
	04	3.0	4	56						50	49	47	46	44	42	40	36	31	26	20	14		
	05	4.0	5.5	70						63	61	59	57	55	53	50	45	39	32	25	17		
	07	5.5	7.5	98						88	85	83	80	77	74	70	62	54	45	35	24		
	10	7.5	10	140						125	122	118	114	110	105	100	89	77	64	50	34		
	12	9.2	12.5	168						150	146	142	137	131	126	120	107	93	77	60	41		
	15	11.0	15	210						188	183	177	171	164	158	150	134	116	96	75	51		
	17	13.0	17.5	238						213	207	201	194	186	179	170	152	131	109	85	58		
	20	15.0	20	280						251	244	236	228	219	210	200	178	154	128	100	69		
	25	18.5	25	350						314	305	296	285	274	263	250	223	193	160	125	86		
	30	22.0	30	420						376	366	355	342	329	315	300	268	232	192	149	103		
	35	26.0	35	490						439	427	414	399	383	368	350	312	270	224	174	120		
	40	30.0	40	560						502	488	473	456	438	420	400	357	309	256	199	137		
	50	37.0	50	700						627	610	591	571	548	525	500	446	386	320	249	172		
	58	45.0	60	812						727	707	686	662	635	609	579	517	448	371	289	199		
	Efficiency			-						41%	46%	51%	56%	59%	63%	65%	68%	67%	62%	52%	39%		

Best efficiency point

The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B

6" TECHNICAL DATA AT 50 HZ

6SRF 10

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	Total
		Type	[Kw]	[HP]		3~	3~	1 cable	2 cable			3~	3~
6SRF 10	05	E4 HT	2.2	3	477	422.2	899.2	140	-	95.25	8.9	15	23.9
	06		3	4	515	477.2	992.2	140	-	95.25	9.6	17	26.6
	07		3.7	5	553	520.2	1073.2	140	-	95.25	10.2	19.1	29.3
	08		3.7	5	591	520.2	1111.2	140	-	95.25	10.8	19.1	29.9
	09		4	5.5	629	543.2	1172.2	140	-	95.25	11.4	20	31.4
	12		5.5	7.5	743	625.5	1368.5	140	-	95.25	13.3	26.6	39.9
	05	E6	4	5.5	477	581.2	1058.2	140	143	135.52	8.9	38	46.9
	06		4	5.5	515	581.2	1096.2	140	143	135.52	9.6	38	47.6
	07		4	5.5	553	581.2	1134.2	140	143	135.52	10.2	38	48.2
	08		4	5.5	591	581.2	1172.2	140	143	135.52	10.8	38	48.8
	09		4	5.5	629	581.2	1210.2	140	143	135.52	11.4	38	49.4
	12		5.5	7.5	743	614.4	1357.4	140	143	135.52	13.3	41	54.3
	16		7.5	10	895	646.2	1541.2	140	143	135.52	15.9	44	59.9
	18		9.2	12.5	971	678.7	1649.7	140	143	135.52	17.1	47.5	64.6
	21		**9.2**	**12.5**	**1100**	**678.7**	**1778.7**	**140**	**143**	**135.52**	**21**	**47.5**	**68.5**
	24		11	15	1214	711.2	1925.2	140	143	135.52	22.9	50	72.9
	28		15	20	1418	776.2	2194.2	140	143	135.52	26.3	56	82.3
	32		15	20	1718	776.2	2494.2	140	143	135.52	35.9	56	91.9
	40		18.5	25	2022	841.5	2863.5	140	143	135.52	41.7	63	104.7
	48		22	30	2326	906.5	3232.5	140	143	135.52	47.5	68.5	116
	54		30	40	2658	1036.6	3694.6	140	143	135.52	53.6	83	136.6
	05	RW6	4	5.5	477	679	1156	140	143	142	8.9	43	51.9
	06		4	5.5	515	679	1194	140	143	142	9.6	43	52.6
	07		**4**	**5.5**	**553**	**679**	**1232**	**140**	**143**	**142**	**10.2**	**43**	**53.2**
	08		4	5.5	591	679	1270	140	143	142	10.8	43	53.8
	09		4	5.5	629	679	1308	140	143	142	11.4	43	54.4
	12		5.5	7.5	743	679	1422	140	143	142	13.3	43	56.3
	16		7.5	10	895	699	1594	140	143	142	15.9	45	60.9
	18		9.2	12.5	971	729	1700	140	143	142	17.1	49	66.1
	21		9.2	12.5	1100	729	1829	140	143	142	21	49	70
	24		11	15	1214	759	1973	140	143	142	22.9	53	75.9
	28		13	17.5	1418	809	2227	140	143	142	26.3	57	83.3
	32		15	20	1718	854	2572	140	143	142	35.9	61	96.9
	40		18.5	25	2022	899	2921	140	143	142	41.7	66	107.7
	48		22	30	2326	989	3315	140	143	142	47.5	77	124.5
	54		26	35	2658	1094	3752	140	143	142	53.6	88	141.6