Unidrive SP Panel Mount Ratings and Specifications

200-240VAC +/- 10% Single Phase (kW@220V) (HP@230V)

		Normal Duty			Heavy Duty		
Frame Size	Modules	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)
0	SP0201	-	-	-	2.2	0.37	0.5
	SP0202	-	-	-	3.1	0.55	0.75
	SP0203	-	-	-	4	0.75	1
	SP0204	-	-	-	5.7	1.1	1.5
	SP0205	-	-	-	7.5	1.5	2

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Frame Size	Modules	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)
0	SP0201	-	-	-	2.2	0.37	0.5
	SP0202	-	-	-	3.1	0.55	0.75
	SP0203	-	-	-	4	0.75	1
	SP0204	-	-	-	5.7	1.1	1.5
	SP0205	-	-	-	7.5	1.5	2
1	SP1201	5.2	1.1	1.5	4.3	0.75	1
	SP1202	6.8	1.5	2	5.8	1.1	1.5
	SP1203	9.6	2.2	3	7.5	1.5	2
	SP1204	11	3	3	10.6	2.2	3
2	SP2201	15.5	4	5	12.6	3	3
	SP2202	22	5.5	7.5	17	4	5
	SP2203	28	7.5	10	25	5.5	7.5
3	SP3201	42	11	15	31	7.5	10
	SP3202	54	15	20	42	11	15
4	SP4201	68	18.5	25	56	15	20
	SP4202	80	22	30	68	18.5	25
	SP4203	104	30	40	80	22	30
5	SP5201	130	37	50	105	30	40
	SP5202	154	45	60	130	37	50

380-480VAC +/- 10% (kW@400V) (HP@460V)

		Normal Duty			Heavy Duty		
Frame Size	Modules	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)
0	SP0401	-	-	-	1.3	0.37	0.5
	SP0402	-	-	-	1.7	0.55	0.75
	SP0403	-	-	-	2.1	0.75	1
	SP0404	-	-	-	3	1.1	1.5
	SP0405	-	-	-	4.2	1.5	2
1	SP1401	2.8	1.1	1.5	2.1	0.75	1
	SP1402	3.8	1.5	2	3	1.1	1.5
	SP1403	5	2.2	3	4.2	1.5	3
	SP1404	6.9	3	5	5.8	2.2	3
	SP1405	8.8	4	5	7.6	3	5
	SP1406	11	5.5	7.5	9.5	4	5
2	SP2401	15.3	7.5	10	13	5.5	7.5
	SP2402	21	11	15	16.5	7.5	10
	SP2403	29	15	20	25	11	20
	SP2404	29	15	20	29	15	20
3	SP3401	35	18.5	25	32	15	25
	SP3402	43	22	30	40	18.5	30
	SP3403	56	30	40	46	22	40
4	SP4401	68	37	50	60	30	50
	SP4402	83	45	60	74	37	60
	SP4403	104	55	75	96	45	75
5	SP5401	138	75	100	124	55	100
	SP5402	168	90	125	156	75	125
6	SP6401	205	110	150	180	90	150
	SP6402	236	132	200	210	110	150

500-575VAC +/- 10% (kW@575V) (HP@575V)

		Normal Duty			Heavy Duty		
Frame Size	Modules	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)
3	SP3501	5.4	3	3	4.1	2.2	2
	SP3502	6.1	4	5	5.4	3	3
	SP3503	8.4	5.5	7.5	6.1	4	5
	SP3504	11	7.5	10	9.5	5.5	7.5
	SP3505	16	11	15	12	7.5	10
	SP3506	22	15	20	18	11	15
	SP3507	27	18.5	25	22	15	20
4	SP4603*	36	22	30	27	18.5	25
	SP4604*	43	30	40	36	22	30
	SP4605*	52	37	50	43	30	40
	SP4606*	62	45	60	52	37	50
5	SP5601*	84	55	75	63	45	60
	SP5602*	99	75	100	85	55	75
6	SP6601*	125	90	125	100	75	100
	SP6602*	144	110	150	125	90	125

500-690VAC +/- 10% (kW@690V) (HP@690V)

		Normal Duty			Heavy Duty		
Frame Size	Modules	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)	Max Cont Current (A)	Typical Motor Output Power (kW)	(HP)
4	SP4601	22	18.5	25	19	15	20
	SP4602	27	22	30	22	18.5	25
	SP4603	36	30	40	27	22	30
	SP4604	43	37	50	36	30	40
	SP4605	52	45	60	43	37	50
	SP4606	62	55	75	52	45	60
5	SP5601	84	75	100	63	55	75
	SP5602	99	90	125	85	75	100
6	SP6601	125	110	150	100	90	125
	SP6602	144	132	175	125	110	150

Notes: Select model on actual motor full load current. *The same model can be used on a 575V or a 690V supply, and has two different output ratings. For example: At Normal Duty, SP4603 is suitable for a 22kW output motor on a 575V supply and a 30kW output motor on a 690V supply. Can be used on IT supplies - all voltages, Grounded delta supplies - all voltages except 690V

Normal Duty Suitable for most applications, current overload of 110% for 165 seconds is available. Where motor rated current is less than the drive rated continuous current, higher overloads are achieved.

Heavy Duty Suitable for demanding applications, current overload of 175% for 40 seconds is available for frame size 0 - 5 in closed loop, 150% for 60 seconds in open loop. For frame size 6 current overload of 150% for 60 seconds is available in closed loop and 129% for 97 seconds in open loop. Where the motor rated current is less than the drive rated continuous current higher overloads (200% or greater) are achieved.

Environmental Safety and Electrical Conformance

- IP20/Nema 1 rating, IP54 (NEMA 12) through panel mount
- Ambient temperature -15 to +40°C, 50°C with derating
- Humidity 95% maximum (non condensing) at 40°C
- Altitude: 0 to 3000m, derate 1% per 100m between 1000m and 3000m
- Vibration: Tested in accordance with IEC 60068-2-34
- Mechanical Shock Tested in accordance with IEC 60068-2-27
- Storage temperature -40°C to 50°C
- Electromagnetic Immunity complies with EN 61800-3 and EN 61000-6-2
- With on board EMC filter, complies with EN 61800-3 (2nd environment)
- EN 61000-6-3 and EN 61000-6-4 with optional footprint EMC filter
- IEC 61000-3-4 Supply conditions
- IEC 60146-1-1 Supply conditions
- IEC 61800-5-1 (Power Drive Systems)
- IEC 61131-2 I/O
- EN 60529 Ingress protection
- EN 50178 / IEC 62103 Electrical safety
- Safe Torque Off (formally secure disable), independently assessed by BGIA to EN 954-1 cat 3
- EN 81-1 assessed by TÜV
- EN 61000-6-2, EN 61000-6-4 EMC, UL508C, UL840