



Manufacturer's Statement for A510s Enhanced series

A510s Enhanced efficiency according to IEC/EN 61800-9-2

Drive models: A510s Enhanced series, please refer to the table below for the model list

Efficiency class: IE2

Nominal voltage: Please refer to the tabel below

Nominal frequency: 50Hz

Nominal power: Please refer to the tabel below

Motor control: V/f, V/f+PG, SLV, SLV2, SV, PMSV,
PMSLV

Nominal current: Please refer to the tabel below

Nominal apparent power: Please refer to the
tabel below

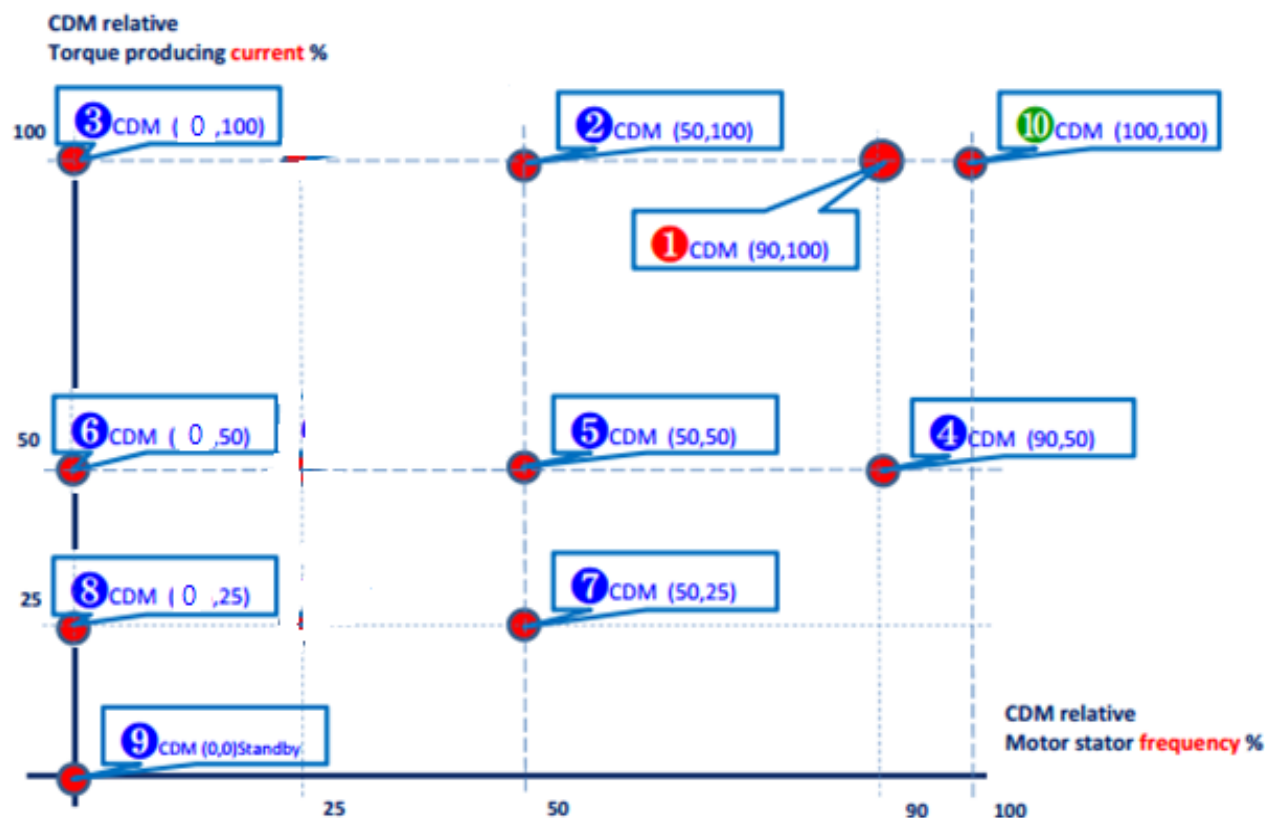
Maximum operating temperature:

40°C for IP20

50°C for IP00 or top anti-dust cover removed

Frame 5 is 50°C, which is IP20 level

CDM losses and efficiency (calculated with
default settings) point: As the picture right



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EU contact: MOTOVARIO S.p.A — Via Quattro Passi 1/3 — 41043 — Formigine (MO) — ITALY. MOTOVARIO EORI number: IT02569681204

CDM losses and efficiency table

Frame	Model Name	Nominal voltage (V)	Nominal current (A)	Nominal power (kW)	Nominal apparent power (KVA)
380V Class					
1	A510-4001-S□3(F)	380	3.4	0.75	2.6
1	A510-4002-S□3(F)	380	4.2	1.5	3.2
1	A510-4003-S□3(F)	380	5.5	2.2	4.2
2	A510-4005-S□3(F)	380	9.2	3.7	7
2	A510-4008-S□3(F)	380	14.8	5.5	11.3
3	A510-4010-S□3(F)	380	18	7.5	13.7
3	A510-4015-S□3(F)	380	24	11	18.3
4	A510-4020-S□3(F)	380	31	15	23.6
4	A510-4025-S□3(F)	380	39	18.5	29.7
4	A510-4030-S□3(F)	380	45	22	34.3
5	A510-4040-S□3(F)	380	60	30	45.7
5	A510-4040-S□3(F)-B	380	60	30	45.7
5	A510-4050-S□3(F)	380	75	37	57.2
5	A510-4060-S□3(F)	380	91	45	69.3
5	A510-4075-S□3	380	118	55	89.9
6	A510-4100-S□3	380	150	75	114
6	A510-4125-S□3	380	180	90	137
7	A510-4150-S□3	380	216	110	165
7	A510-4175-S□3	380	260	132	198
7	A510-4215-S□3	380	295	160	225
8	A510-4215-S□3H	380	330	160	251
8	A510-4270-S□3	380	380	200	290
8	A510-4300-S□3	380	450	220	343
8	A510-4375-S□3	380	523	280	400
8	A510-4425-S□3	380	585	315	461
220V Class					
1	A510-2001-S□	220	5	0.75	1.9
1	A510-2002-S□	220	8	1.5	3
2	A510-2003-S□	220	11	2.2	4.2
2	A510-2005-S□3	220	17.5	3.7	6.7
2	A510-2008-S□3	220	25	5.5	9.5
3	A510-2010-S□3	220	33	7.5	12.6
4	A510-2015-S□3	220	47	11	17.9
4	A510-2020-S□3	220	60	15	22.9
4	A510-2025-S□3	220	73	18.5	27.8
5	A510-2030-S□3	220	85	22	32.4
5	A510-2040-S□3	220	115	30	43.8
6	A510-2050-S□3	220	145	37	55.3
6	A510-2060-S□3	220	180	45	68.6
7	A510-2075-S□3	220	215	55	81.9
7	A510-2100-S□3	220	283	75	108
8	A510-2125-S□3	220	346	90	132
8	A510-2150-S□3	220	415	110	158

⑨	⑧		⑥		③		⑦		⑤		②		①		①		⑩	
CDM STANDBY LOSS	CDM (0,25)		CDM (0,50)		CDM (0,100)		CDM (50,25)		CDM (50,50)		CDM (50,100)		CDM (90,50)		CDM (90,100)		CDM (100,100)	
p Loss(W)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)	p Loss(W)	η(%)
14	2	0.0	2	0.0	95	0.0	23	93.1	30	93.8	40	94.1	30	95.5	44	95.6	45	95.9
14	2	0.0	2	0.0	95	0.0	28	93.2	35	93.9	46	94.1	35	95.7	53	95.8	55	96.0
20	2	0.0	2	0.0	95	0.0	47	93.4	57	94.1	72	94.4	60	95.9	77	95.9	78	96.2
23	2	0.0	2	0.0	96	0.0	77	94.1	92	94.8	160	95.1	117	96.1	170	96.2	190	96.4
23	2	0.0	2	0.0	97	0.0	93	94.6	119	95.2	220	95.5	140	96.7	230	96.8	240	97.3
33	2	0.0	2	0.0	97	0.0	109	94.9	137	95.6	240	95.8	147	97.2	260	97.3	260	97.5
33	10	0.0	10	0.0	105	0.0	129	94.8	164	95.5	301	95.8	168	97.3	348	97.4	404	97.6
35	10	0.0	10	0.0	105	0.0	174	95.0	216	95.7	370	96.1	220	97.4	420	97.5	430	97.7
35	10	0.0	10	0.0	105	0.0	239	94.9	264	96.0	450	96.3	282	97.5	510	97.6	520	97.7
35	10	0.0	10	0.0	105	0.0	279	94.8	313	96.0	555	96.3	338	97.5	605	97.5	605	97.8
40	10	0.0	10	0.0	105	0.0	343	94.8	388	96.0	690	96.3	396	97.6	740	97.6	740	97.9
40	10	0.0	10	0.0	105	0.0	343	94.8	388	96.0	690	96.3	396	97.6	740	97.6	740	97.9
40	10	0.0	10	0.0	104	0.0	511	93.6	630	94.8	1190	95.1	622	97.0	1350	97.0	1350	97.4
40	10	0.0	10	0.0	104	0.0	678	93.7	826	94.8	1380	95.1	786	97.1	1480	97.1	1480	97.5
40	10	0.0	10	0.0	105	0.0	725	94.6	954	95.3	1630	95.6	985	97.2	1650	97.3	1660	97.7
42	50	0.0	50	0.0	96	0.0	758	93.7	1060	95.3	1888	95.7	1139	97.1	2076	97.4	2130	97.6
42	50	0.0	50	0.0	144	0.0	900	93.7	1269	95.3	2293	95.7	1364	97.1	2526	97.3	2594	97.5
46	50	0.0	50	0.0	143	0.0	1160	93.3	1624	95.0	2894	95.5	1738	97.0	3165	97.2	3243	97.4
46	50	0.0	50	0.0	143	0.0	1388	93.3	1958	95.0	3531	95.4	3778	96.8	3858	97.2	3951	97.4
46	50	0.0	50	0.0	144	0.0	1321	94.3	1881	95.7	3457	96.0	2037	97.4	3827	97.5	3934	97.7
56	50	0.0	50	0.0	144	0.0	1474	94.4	2085	95.8	3780	96.1	2259	97.4	4194	97.6	4313	97.7
56	100	0.0	100	0.0	194	0.0	1740	94.2	2458	95.7	4464	96.0	2658	97.4	4267	97.9	5078	97.7
56	100	0.0	100	0.0	194	0.0	2191	93.9	3089	95.4	5559	95.8	3326	97.2	4946	97.9	6285	97.6
56	100	0.0	100	0.0	194	0.0	2538	93.9	3600	95.4	6546	95.8	3875	97.2	5961	97.8	7391	97.6
56	100	0.0	100	0.0	195	0.0	2339	94.9	3355	96.2	6225	96.4	3663	97.6	6410	97.9	7170	97.9
13	2	0.0	2	0.0	96	0.0	23	93.8	26	94.9	42	95.2	36	95.5	46	95.5	47	95.7
19	2	0.0	2	0.0	95	0.0	40	93.4	49	94.1	54	94.3	53	95.8	58	95.8	60	96.0
19	2	0.0	2	0.0	96	0.0	61	94.0	72	94.6	88	94.9	82	96.0	89	96.0	90	96.2
20	2	0.0	2	0.0	96	0.0	95	94.1	112	94.8	115	95.1	133	96.3	120	96.4	122	96.5
30	2	0.0	2	0.0	96	0.0	135	94.1	159	94.8	162	95.1	180	96.5	169	96.6	185	96.6
30	2	0.0	2	0.0	96	0.0	144	93.9	186	94.6	285	94.9	189	96.7	291	96.8	310	97.0
30	10	0.0	10	0.0	104	0.0	170	93.9	223	94.6	385	94.8	259	96.6	425	96.6	435	96.9
31	10	0.0	10	0.0	104	0.0	215	94.1	281	94.7	465	95.0	313	96.7	495	96.8	525	97.0
32	10	0.0	10	0.0	104	0.0	284	94.1	408	94.3	692	94.4	465	96.2	758	96.3	758	96.7
35	10	0.0	10	0.0	104	0.0	335	94.4	478	94.6	855	94.7	504	96.6	865	96.7	875	97.1
35	10	0.0	10	0.0	105	0.0	422	94.9	598	95.1	1035	95.2	656	96.8	1095	96.9	1125	97.0
36	50	0.0	50	0.0	143	0.0	469	93.0	655	94.8	1167	95.3	732	96.7	1164	97.4	1401	97.1
36	50	0.0	50	0.0	143	0.0	571	93.2	809	94.9	1473	95.2	904	96.7	1453	97.4	1764	97.1
46	50	0.0	50	0.0	143	0.0	663	93.0	935	95.0	1695	95.4	1048	96.8	1567	97.6	2042	97.2
46	50	0.0	50	0.0	143	0.0	859	93.4	1234	95.0	2304	95.3	1383	96.8	2031	97.6	2761	97.1
56	100	0.0	100	0.0	193	0.0	1089	93.2	1532	94.9	2768	95.4	1714	96.8	3202	97.0	3326	97.2
56	100	0.0	100	0.0	193	0.0	1253	93.5	1776	95.1	3231	95.5	1995	96.9	3752	97.0	3901	97.2