



Manufacturer's Statement for F510 Enhanced series

F510 Enhanced efficiency according to IEC/EN 61800-9-2

Drive models: F510 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, Sensorless vector,
PM sensorless vector

Nominal current: Please refer to the tabel below

Nominal apparent power: Please refer to the
tabel below

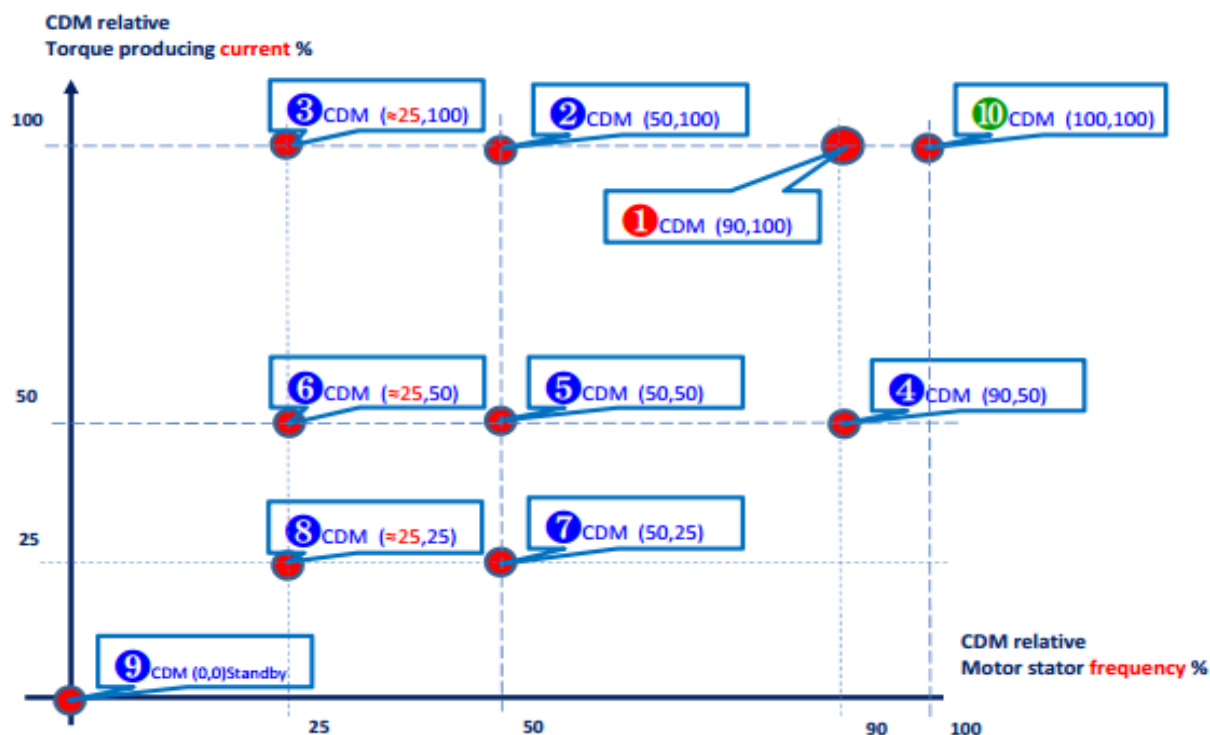
Maximum operating temperature:

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	F510-4001-□3(F)	380	3.4	0.75	2.6
1	F510-4002-□3(F)	380	4.1	1.5	3.1
1	F510-4003-□3(F)	380	5.4	2.2	4.1
2	F510-4005-□3(F)	380	9.2	3.7	7
2	F510-4008-□3(F)	380	12.1	5.5	8.4
3	F510-4010-□3(F)	380	17.5	7.5	13
3	F510-4015-□3(F)	380	23	11	18
4	F510-4020-□3(F)	380	31	15	24
4	F510-4025-□3(F)	380	38	18.5	28.9
4	F510-4030-□3(F)	380	44	22	34
5	F510-4040-□3(F)	380	58	30	41
5	F510-4050-□3(F)	380	73	37	55
5	F510-4060-□3(F)	380	88	45	67
5	F510-4075-□3(F)	380	103	55	78
5	F510-4100-□3	380	145	75	110
6	F510-4125-□3	380	168	90	125
6	F510-4150-□3	380	208	110	158
7	F510-4175-□3	380	250	132	190
7	F510-4215-□3	380	296	160	225
7	F510-4250-□3	380	328	185	250
8	F510-4300-□3	380	435	220	331
8	F510-4375-□3	380	515	280	392
8	F510-4425-□3	380	585	315	445
9	F510-4535-□3	380	700	400	525
9	F510-4670-□3	380	875	500	640
9	F510-4800-□3	380	960	600	731
220V Class					
1	F510-2001-□	220	5	0.75	1.9
1	F510-2002-□	220	7.5	1.5	2.9
1	F510-2003-□	220	10.6	2.2	4
2	F510-2005-□3	220	14.5	3.7	5.5
2	F510-2008-□3	220	22	5.5	8
2	F510-2010-□3	220	30	7.5	11.4
3	F510-2015-□3	220	42	11	15.2
4	F510-2020-□3	220	56	15	21.3
4	F510-2025-□3	220	69	18.5	26.2
4	F510-2030-□3	220	80	22	30
5	F510-2040-□3	220	110	30	41.9
5	F510-2050-□3	220	138	37	52.5
6	F510-2060-□3	220	169	45	64.3
6	F510-2075-□3	220	200	55	76.2
7	F510-2100-□3	220	250	75	95.2
7	F510-2125-□3	220	312	90	119
8	F510-2150-□3	220	400	110	152
8	F510-2175-□3	220	450	130	171

⑨	⑧		⑥		③		⑦		⑤		②		①		①		⑩	
CDM STANDBY LOSS	CDM (25,25 or (*12Hz,25)		CDM(25;50 or (*12Hz,50)		CDM(25; 100 or (*12Hz,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	21	88.0	22	91.0	35	91.7	23	93.1	30	93.8	40	94.1	30	95.5	44.00	95.6	45	95.9
14	24	88.1	27	91.1	42	91.7	27	93.2	34	93.9	46	94.1	35	95.7	53.00	95.8	55	96.0
20	43	88.3	44	91.3	66	92.0	47	93.4	57	94.1	72	94.4	60	95.9	77.00	95.9	78	96.2
23	72	88.5	72	91.6	109	92.2	77	94.1	92	94.8	160	95.1	117	96.1	170	96.2	190	96.4
23	74	88.6	80	91.7	144	92.3	85	93.8	101	95.0	180	95.3	128	96.3	190.00	96.4	210	96.5
23	103	89.5	107	92.7	189	93.2	111	94.7	125	95.8	230	96.1	159	96.9	250.00	97.0	250	97.5
33	134	89.7	137	92.9	241	93.4	142	94.8	159	96.0	260	96.2	174	97.4	280.00	97.5	280	97.7
33	162	89.9	167	93.1	294	93.7	154	94.8	176	96.0	331	96.3	194	97.5	377.50	97.6	434	98.0
35	213	89.9	217	93.1	379	93.7	221	94.9	249	96.0	400	96.3	250	97.6	480.00	97.7	500	98.0
35	251	90.0	254	93.2	443	93.7	254	95.1	273	96.3	490	96.5	278	97.8	540.00	97.9	550	98.0
35	319	90.6	347	93.1	602	93.7	354	94.6	364	96.0	660	96.1	375	97.9	720.00	97.9	720	98.0
40	398	90.1	402	93.3	702	93.9	413	95.0	440	96.2	790	96.5	453	97.8	830.00	97.8	850	98.2
40	466	90.2	537	92.7	972	93.3	488	94.9	638	95.6	1320	95.9	774	96.9	1430.00	96.9	1430	97.6
40	573	90.3	651	92.8	1170	93.4	594	95.0	869	95.2	1530	95.3	844	97.3	1580.00	97.3	1580	97.7
40	682	90.6	793	93.0	1444	93.5	753	95.6	1026	95.6	1750	95.9	1008	97.4	1800.00	97.5	1810	97.9
42	762	88.8	1058	91.6	1884	92.4	787	94.1	1108	95.6	1995	96.0	1196	97.3	2206	97.5	2267	97.7
42	937	88.8	1313	91.6	2383	92.2	966	94.1	1373	95.6	2520	95.9	1483	97.3	2789	97.4	2868	97.6
46	1193	88.3	1660	91.2	2966	92.0	1229	93.8	1734	95.4	3131	95.8	1866	97.2	3445	97.4	3535	97.6
46	1407	88.3	1974	91.2	3575	91.8	1451	93.8	2062	95.4	3770	95.7	2218	97.2	4142	97.3	4248	97.5
46	1280	90.2	1812	92.6	3349	93.0	1329	94.9	1909	96.1	3565	96.3	2082	97.6	2725	98.4	4095	97.8
56	1922	89.0	2695	91.7	4903	92.3	1985	94.2	2823	95.7	5190	96.0	3052	97.4	4621	98.0	5893	97.7
56	2424	88.4	3391	91.3	6097	92.0	2500	93.9	3544	95.4	6437	95.8	3815	97.2	5494	98.0	7268	97.6
56	2253	90.3	3182	92.7	5839	93.2	2339	94.9	3355	96.2	6225	96.4	3663	97.6	6410	97.9	7170	97.9
240	2637	90.5	3675	92.9	6626	93.5	2740	95.0	3882	96.3	7087	96.6	4251	97.7	7966	97.8	8218	98.0
240	3343	90.4	4670	92.8	8388	93.4	3472	95.0	4929	96.2	8965	96.5	5390	97.7	10007	97.8	10378	98.0
240	3660	90.4	5136	92.8	9296	93.4	3801	95.0	5420	96.2	9929	96.5	5925	97.7	11134	97.8	11480	97.9
13	22	88.0	24	90.9	37	91.5	23	93.8	26	94.9	42	95.2	36	95.5	46	95.5	47	95.7
13	36	88.1	37	91.1	57	91.8	40	93.4	49	94.1	54	94.3	53	95.8	58	95.8	60	96.0
19	57	88.3	58	91.3	86	92.0	61	94.0	72	94.6	88	94.9	82	96.0	89	96.0	90	96.2
19	76	88.6	75	91.7	111	92.3	77	94.4	81	95.5	105	95.8	104	96.2	112	96.2	113	96.5
20	81	88.8	87	91.9	155	92.5	82	93.9	98	95.0	125	95.3	110	96.3	132	96.3	143	96.7
30	112	88.9	119	92.1	211	92.6	105	94.3	122	95.5	168	95.8	147	96.7	201	96.8	202	96.9
30	160	89.2	168	92.4	294	92.9	199	93.6	225	94.8	375	95.1	231	96.9	391	97.0	410	97.2
30	204	89.2	215	92.3	380	92.9	227	93.6	273	94.7	415	95.0	311	96.8	485	96.8	515	97.1
31	247	89.2	260	92.4	460	92.9	270	93.8	322	94.9	495	95.2	359	96.9	555	97.0	565	97.2
32	307	88.9	327	92.0	577	92.6	386	93.2	464	94.3	762	94.6	494	96.4	828	96.5	828	96.9
35	415	89.3	441	92.5	772	93.1	427	94.6	607	94.8	955	94.9	631	96.8	965	96.9	975	97.3
35	455	89.2	562	92.4	985	93.0	485	95.1	686	95.3	1135	95.4	736	97.0	1195	97.1	1225	97.2
36	470	88.2	649	91.2	1159	92.0	495	93.7	700	95.2	1271	95.6	788	97.0	1278	97.5	1544	97.3
36	550	88.3	769	91.2	1400	91.8	579	93.7	828	95.2	1532	95.5	933	97.0	1966	96.8	1855	97.3
46	662	88.7	925	91.5	1685	92.1	699	93.9	999	95.4	1850	95.7	1130	97.1	1617	97.9	2254	97.3
46	820	88.8	1165	91.4	2184	91.8	866	94.0	1257	95.4	2390	95.5	1421	97.0	2070	97.8	2894	97.3
56	1116	88.1	1555	91.1	2818	91.8	1175	93.6	1673	95.2	3082	95.5	1883	96.9	3584	97.1	3728	97.2
56	1171	88.9	1634	91.6	2962	92.3	1237	94.0	1767	95.5	3259	95.8	2004	97.0	3824	97.2	3985	97.4