



Manufacturer's Statement for F510 IP55 series

F510 IP55 efficiency according to IEC/EN 61800-9-2

Drive models: F510 IP55 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

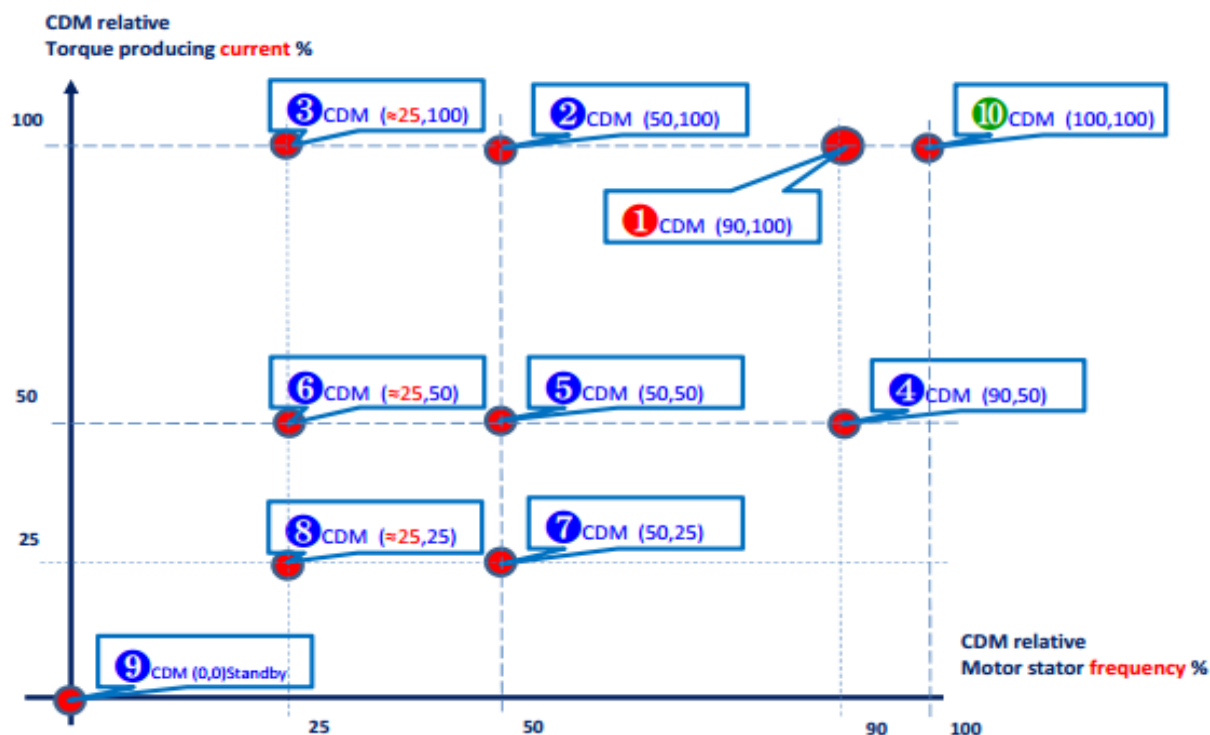
Motor control: V/f, Sensorless vector,
PM sensorless vector

Nominal current: Please refer to the tabel below

Nominal apparent power: Please refer to the tabel below

Maximum operating temperature: 40°C

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-C3(F)N4	380	3.4	0.75	2.6
1	F510-4002-C3(F)N4	380	4.1	1.5	3.1
1	F510-4003-C3(F)N4	380	5.4	2.2	4.1
2	F510-4005-C3(F)N4	380	9.2	3.7	7
2	F510-4008-C3(F)N4	380	12.1	5.5	8.4
3	F510-4010-C3(F)N4	380	17.5	7.5	13
3	F510-4015-C3(F)N4	380	23	11	18
4	F510-4020-C3(F)N4	380	31	15	24
4	F510-4025-C3(F)N4	380	38	18.5	28.9
4	F510-4030-C3(F)N4	380	44	22	34
5	F510-4040-C3(F)N4	380	58	30	41
5	F510-4050-C3(F)N4	380	73	37	55
5	F510-4060-C3(F)N4	380	88	45	67
5	F510-4075-C3N4	380	103	55	78
5	F510-4100-C3N4	380	145	75	110

9	8		6		3		7		5		2		4		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	23.68	90.98	27.27	92.47	40.27	93.03	21.62	95.69	28.08	95.88	45.00	95.98	44.38	96.37	49.00	96.41	50.00	97.31
14	28.44	90.91	32.86	92.39	48.64	92.95	22.49	95.92	29.41	96.11	50.00	96.21	49.32	96.43	61.00	96.47	61.00	97.23
14	31.28	91.33	36.33	92.82	54.21	93.38	28.09	95.96	36.88	96.15	66.00	96.25	60.00	96.61	69.00	96.65	72.00	97.68
20	37.61	94.07	51.40	94.26	81.66	94.36	59.71	95.63	77.54	95.82	147.00	95.92	95.81	97.05	154.00	97.09	155.00	97.88
20	40.73	94.07	60.16	94.26	112.35	94.36	63.06	95.69	88.72	95.88	163.00	95.98	115.57	96.92	203.00	96.96	203.00	97.88
23	57.61	94.28	84.83	94.46	158.08	94.56	73.24	96.53	101.76	96.72	177.00	96.82	143.02	97.37	214.00	97.41	217.00	98.09
23	77.24	93.90	114.67	94.09	215.05	94.18	112.76	95.79	159.01	95.98	280.00	96.08	211.44	96.95	324.00	96.99	330.00	97.70
33	99.15	94.36	146.14	94.55	272.63	94.65	142.40	96.16	199.25	96.35	330.00	96.45	249.57	97.39	340.00	97.43	340.00	98.18
33	111.14	94.63	164.31	94.82	307.49	94.92	157.84	96.37	221.07	96.56	350.00	96.66	260.12	97.70	380.00	97.74	400.00	98.46
35	143.33	94.21	212.11	94.40	396.93	94.49	183.41	96.40	256.58	96.59	440.00	96.69	277.83	97.88	460.00	97.92	470.00	98.02
35	183.45	94.43	270.68	94.62	505.49	94.71	213.84	96.87	295.88	97.06	500.00	97.16	335.62	98.09	550.00	98.13	640.00	98.25
35	230.88	94.57	339.13	94.76	631.12	94.86	291.35	96.67	404.16	96.86	700.00	96.96	415.79	98.14	720.00	98.18	730.00	98.40
40	249.35	94.54	381.70	94.73	738.60	94.83	303.58	96.78	437.02	96.97	755.00	97.07	465.45	98.16	785.00	98.20	800.00	98.37
40	277.82	94.85	423.64	95.04	817.72	95.14	340.85	96.98	487.35	97.17	775.00	97.27	539.19	98.20	815.00	98.24	815.00	98.69
40	437.49	94.48	665.74	94.67	1281.65	94.76	513.74	96.84	735.30	97.03	1330.00	97.13	920.50	97.86	1530.00	97.90	1720.00	98.30