



ABB NEMA Motors CA510 — PARTS AND KITS



2025

ENGINEERED
TO OUTFIT

Mission Statement

Our mission is to be the best
(as determined by our customers)
marketers, designers, and manufacturers
of industrial electric motors

$$V_p = \frac{Q_p \times S_p^{\text{®}}}{C \times T}$$

V = Value
C = Cost

Q = Quality
T = Time

S = Service
P = Perceived

A complete line of low voltage motors

1–800Hp



		Severe Duty				
Features		SD100 & SD100 IEE841	Severe Duty 661	SD 200	SD200 841	DP200 Crush+
HP Range	3600 RPM	1–100Hp	-	125-600Hp	125-400Hp	-
	1800 RPM	1–100Hp	5–75Hp	125-800Hp	125-400Hp	125-600Hp
	1200 RPM	1–75Hp	7½–50Hp	100-600Hp	100-400Hp	125-600Hp
	900 RPM	1–60Hp	-	75-250Hp	75-250Hp	-
Frame Size	140T–500	140T–400T	180T–360T	444T-5013	444T-5013	44T-5811
Standard Voltage (3 phase)	230/460V	-	-	-	-	-
	460V, 60Hz	140T–400T	180T–360T	444T-5013	444T-5013	44T-5811
	575V, 60Hz	140T–400T	180T–360T	444T-5013	444T-5013	44T-5811
Efficiency	NEMA Premium® ⁽²⁾	140T–400T	180T–360T	444T-5013	444T-5013	44T-5811
Insulation	Non-Hygroscopic	Class F	Class F	Class H	Class H	Class H
Temperature Rise	Class B	@ 1.0sf	@ 1.0sf	@ 1.0sf	@ 1.0sf	@ 1.0sf
	Class F	@ 1.15sf	@ 1.15sf	@ 1.15 sf	@ 1.5sf	@ 1.15sf
Construction		Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
Fan		Polypropylene bi-directional	Polypropylene bi-directional	Polypropylene bi-directional	Polypropylene bi-directional	Polypropylene bi-directional
Ingress Protection		IP55	IP56	IP55	IP56	IP65
Hazardous classification	Gas ⁽²⁾	140T–400T CL I, Div. 2 GR. A, B, C or D	180T–360T CL I, Div. 2 GR. A, B, C or D	Division 2 Class I, GR. A, B, C or D	Division 2 Class I, GR. A, B, C or D	Division 2 Class I, GR. A, B, C or D
	Dust ⁽⁴⁾	360T–400T CL II, Div. 2 GR. F and G	360T–400T CL II, Div. 2 GR. F and G	Division 2 Class II, GR. F and G	Division 2 Class II GR. F and G	Division 2 Class II GR. F and G
Inverter Duty ⁽⁵⁾	Variable Torque	20:1	20:1	20:1	20:1	20:1
	Constant Torque	4:1	4:1	4:1 ⁽²⁾	4:1 ⁽²⁾	4:1
		-	-	2:1 ⁽³⁾	2:1 ⁽³⁾	2:1 ⁽⁴⁾

(1) Available on 208V*

(2) MG1 - Table 12-12

(3) FS440 <350HP & FS500 4 Pole ≤600 HP

(4) 35 - 60 HP; 2 Pole ≤700 HP



Severe Duty Pump Motors			Explosion Proof	General Purpose	
Horizontal Pump Systems (HPS)	P-Base VSS Pump LP100	P-Base VSS Pump HP100	XP100	GP100	GP100A
450–600Hp	3 - 100 HP	3–100 HP	1–300Hp	1–200Hp	1–20Hp
-	3 - 250 HP	3–250 HP	1–250Hp	1–200Hp	1–20Hp
-	3 - 250 HP	3–250 HP	1–200Hp	1–200Hp	1–20Hp
-	-	-	-	1–250Hp	-
500	180T - 440T	180T–440T	140T–400T	140T–400T	140T–250T
-	180T - 250T	180T–250T	140T–250T ⁽¹⁾	140T–250T ⁽¹⁾	140T–250T ⁽¹⁾
500	180T - 440T	180T–440T	140T–400T	Up to 75HP	140T–250T
500	180T - 440T	180T–440T	140T–400T	140T–400T	140T–250T
500	180T - 440T	180T–440T	140T–400T	140T–400T	140T–250T
Class H	Class F	Class F	Class F	Class F	Class F
@ 1.0sf	@ 1.0SF	@ 1.0sf	@ 1.0sf	@ 1.0sf	@ 1.0sf
@ 1.15sf	@ 1.15SF	@ 1.15sf	@ 1.15sf	@ 1.15sf	@ 1.15sf
Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Aluminum
Metallic bi-directional	Polypropylene Bi-Directional	Polypropylene bi-directional	Polypropylene bi-directional	Polypropylene	Polypropylene bi-directional
IP55	IP55	IP55	IP65	IP54	IP55
500 CL I, Div. 2 GR. A, B, C	180T - 440T CL I, Div. 2 GR. A, B, C or D	180T–440T CL I, Div. 2 GR. A, B, C or D	140T–400T CL I, Div. 1 GR. C & D	-	-
			CL II, Div. 1 GR. F and G	-	-
20:1	20:1	20:1	20:1	-	-
4:1 ⁽³⁾	4:1 ⁽³⁾	4:1 ⁽³⁾	4:1	-	-
2:1 ⁽⁴⁾	-	-	-	-	-

Technical details

Part number structure

MLFB Structure	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	-Z
Motor Series	1	2	3					-						-					
Standard GP, SD Motors	1	L	E					-						-					
Division I Explosion Proof Motors	1	M	B																
Definite Purpose Motors	1	P	C					-						-					
Main Series				4				-						-					
NEMA Motors				2				-						-					
Motor Type/Enclosure/Efficiency					5	6	7	-						-					
GP100A NP	1	L	E	2	1	2	1	-						-					
GP100 NP	1	L	E	2	2	2	1	-						-					
SD100 NP	1	L	E	2	3	2	1	-						-					
SD100 NP (Low Maintenance)	1	L	E	2	4	2	3	-						-					
SD100 IEEE841 NP	1	L	E	2	4	2	1	-						-					
SD661	1	L	E	2	4	2	2	-						-					
SD10 MS	1	L	E	2	1	2	1	-						-					
XP100	1	M	B	2	1	2	1	-						-					
XP100 ID1	1	M	B	2	2	2	1	-						-					
HP100	1	P	C	2	8	2	2	-						-					
LP100	1	P	C	2	8	3	5	-						-					
Motor HP and Frame								-	8	9		11		-					
Number of Poles (Speed)								-			10			-					
2 Pole (3000/3600 RPM)								-			A			-					
4 Pole (1500/1800 RPM)								-			B			-					
6 Pole (1000/1200 RPM)								-			C			-					
8 Pole (750/900 RPM)								-			D			-					
Winding Design/Voltage/Frequency								-					12	-	13				
Mounting								-							-	14			
Winding Protection								-							-		15		
Terminal Box Position								-							-			16	
With Additional Options								-							-				-Z

Technical details

Part number structure – Option codes

MLFB Structure	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	-Z
Motor Series	1	2	3					-						-					
Standard GP, SD Motors	1	L	E					-						-					
Definite Purpose Motors	1	P	C					-						-					
Main Series				4				-						-					
Next Generation NEMA Motors				6				-						-					
Motor Type/Enclosure/Efficiency					5	6	7	-						-					
SD200	1	L	E	6	3	2	1	-						-					
SD200 841	1	L	E	6	3	2	2	-						-					
SD200HPS	1	P	C	6	5	2	1	-						-					
DP200 Crush+	1	P	C	6	5	2	5	-						-					
Motor HP and Frame								-	8	9		11		-					
Ball Bearing Long Shaft 444-445T									4	B		*							
Ball Bearing Long Shaft 447-449T									4	C		*							
Ball Bearing Long Shaft L449T									4	D		*							
Ball Bearing Long Shaft 509-511									5	A		*							
Ball Bearing Long Shaft L5011-5013									5	B		*							
Ball Bearing Short Shaft 444-445TS									4	F		*							
Ball Bearing Short Shaft 447-449T									4	G		*							
Ball Bearing Short Shaft L449T									4	H		*							
Ball Bearing Short Shaft 509-511S									5	E		*							
Ball Bearing Short Shaft L5011-5013S									5	F		*							
Roller Bearing Long Shaft R444-R445T									4	S		*							
Roller Bearing Long Shaft R447-R449T									4	T		*							
Roller Bearing Long Shaft RL449T									4	U		*							
Roller Bearing Long Shaft R509-R5011									5	R		*							
Roller Bearing Long Shaft RL5011-RS013									5	S		*							
Number of Poles (Speed)								-			10			-					
2 Pole (3000/3600 RPM)								-			A			-					
4 Pole (1500/1800 RPM)								-			B			-					
6 Pole (1000/1200 RPM)								-			C			-					
8 Pole (750/900 RPM)								-			D			-					
Winding Design/Voltage/Frequency								-					12	-	13				
Mounting								-							-	14			
Winding Protection								-							-		15		
Terminal Box Position								-							-			16	
With Additional Options								-							-				-Z

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C-Face kits for field conversion

Features

- Complete kits with all hardware necessary for converting foot mounted motors to “C-Face” foot mounting.

Applications

- ABB - NEMA Motors

C-Face kits for General Purpose motors



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
GP100			
J14FE1302A04PSP	140	200	8
J18FE1304A04PSP	180	220	10
J21FE1304A01PSP	210	240	14
J25FE1303A01PSP	250	360	18
J28FE1300A01SP	280	560	42
GP100A			
J14FE1302A03PSP	140	200	8
J18FE1304A03PSP	180	220	11
J21FE1304A03PSP	210	240	14
J25FE1303A03PSP	250	360	19

Red catalog number indicates **NEW** product

C-face kits for Severe Duty motors



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
SD100			
J14FE1302PA03SP	140	200	8
J18FE1304PA02SP	180	220	11
J21FE1304A02PSP	210	240	14
J25FE1305A01PSP	250	360	19
J28FE1300A02PSP	280	640	44
J32FE1300A02PSP	320	950	45
J36FE1300PA02SP	360	990	51
J40FE1300PA02SP	400	1,430	88
SD100 IEEE			
J14FE1302PA02SP	140	280	10
J18FE1304PA01SP	180	320	12
J21FE1304PA01SP	210	400	15
J25FE1303PA02SP	250	520	20
J28FE1300PA01SP	280	830	45
J32FE1300PA01SP	320	1,110	45
J36FE1300PA01SP	360	1,190	52
J40FE1300PA01SP	400	1,700	90
SD200			
J44FE1301A03PSP	444-445 - 6315 bearing	3,680	132
SD200 841			
J44FE1303PA01SP	444-445 - 320 bearing	4,000	135
J44FE1301PA01SP	447 - 6315 bearing	4,230	132
J44FE1303A01PSP	449 - 320 bearing	5,300	275
J44FE1301A02PSP	L449 - 6315 bearing	4,230	132

Red catalog number indicates **NEW** product

D-Flange kits for field conversion

Features

- Complete kits with all hardware necessary for converting foot mounted motors to “D-Flange” foot mounting.

Applications

- ABB - NEMA Motors

D-Flange kits for General Purpose motors



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
GP100			
J21FE1500A04PSP	210	360	16
J25FE1901A02PSP	250	400	31
GP100, GP100A			
J14FE1501A03PSP	140	280	14
J18FE1500A03PSP	180	320	16
GP100A			
J21FE1500A03PSP	210	360	17
J25FE1901A01PSP	250	400	30

Red catalog number indicates **NEW** product

D-Flange kits for Severe Duty motors



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
SD100			
J14FE1501A01PSP	140	280	14
J18FE1500A01PSP	180	320	11
J21FE1500A02PSP	210	360	15
J25FE1906A02PSP	250	400	33
SD100 IEEE			
J14FE1501A02PSP	140	360	15
J18FE1500A02PSP	180	400	12
J21FE1500A01PSP	210	480	16
J25FE1906A01PSP	250	600	34

Red catalog number indicates **NEW** product

Conduit box kits

Features

- Complete replacement conduit box

Applications

- ABB - NEMA Motors

Conduit box kits for General Purpose motors



Catalog Number	NEMA Frame	Additional Details	List Price	Aprx. Wt. (lb)
GP100				
J18CB3000A01PSP	140-180	Aluminum	120	2
J21CB3000A01PSP	210	Aluminum	125	2
J25CB3000A01PSP	250	Aluminum	130	2
J32CB4000A01PSP	280	Stamped steel	240	20
J36CB4000A01PSP	360	Stamped steel	240	58
J44CB1004A01PSP	360	Cast iron	520	58
J44CB1003A01PSP	449	Cast iron	990	40
GP100A				
J18CB3000A02PSP	140-180	Aluminum	120	2
J21CB3000A02PSP	210	Aluminum	125	2
J25CB3000A02PSP	250	Aluminum	130	2

Red catalog number indicates **NEW** product

Conduit box kits for Severe Duty motors



Catalog Number	NEMA Frame	Additional Details	List Price	Aprx. Wt. (lb)
SD100, SD100 IEEE				
J18CB1001A01PSP	140-180		160	6
J21CB1000A01PSP	210		180	11
J25CB1000A01PSP	250		200	11
J28CB1001A01PSP	280		360	22
J32CB1002A01PSP	320		480	29
SD200, SD200 841, DP200 Crush+				
J44CB1009A03PSP	440	2 - 3" NPT	1,110	90
J44CB1509A01PSP	440	1 - 4" NPT	1,030	68
J44CB1509A05PSP	440	2 - 2.5" NPT	1,270	68
J44CB4001A01PSP	440	Steel, 18.5"X22"X7.5", blank entry	3,170	73
J50CB4801PA00SP	440	Steel, 28.5"X24.4"X20", blank entry	4,940	410
J44CB1008A01SP	444-447	1 - 3" NPT	670	58
J44CB1009A02PSP	449-L449	2 - 4" NPT	1,070	74
J50CB1000A01PSP	500	2 - 4" NPT	2,450	257
J50CB1000A02PSP	500-580	2 - 3" NPT	2,260	257

Red catalog number indicates **NEW** product

Fan covers

Features

- Includes fan cover and mounting hardware

Applications

- ABB - NEMA motors

Fan covers - standard



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
GP100			
J14FH3001A01PSP	140	80	1
J28FH4503A01PSP	280	400	9
J32FH4501A01PSP	320	440	10
J36FH4504PA01PSP	360	670	44
J40FH1001PA01PSP	400	690	59
J44FH1500PA01PSP	440	870	79
GP100, GP100A			
J18FH3000A01PSP	180	100	2
J21FH3000A01PSP	210	200	2
J25FH3000A01PSP	250	220	2
GP100A			
J14FH3000A01PSP	140	80	1
SD100, SD100 IEEE			
J14FH1001A01PSP	140	120	6
J18FH1002A01PSP	180	140	6
J21FH1003A01PSP	210-250	280	12
J28FH1007A01PSP	280	400	32
J32FH1005A02PSP	320	440	39
J36FH1500A01SP	360	670	50
J40FH1001A01PSP	400	690	59
SD200, SD200 841			
J44FH1503A01PSP	440	870	75
XP100, XP100 ID1			
J14FH1000A01PSP	140	160	1
J18FH1000A01PSP	180	180	7
J21FH1000A01PSP	210	320	11
J25FH1000A01PSP	250	360	20
J28FH1003A01PSP	280	520	33
J32FH1002A01PSP	320	710	38
J36FH4504A01PSP	360	750	44
J40FH1000A01PSP	400	790	47

Red catalog number indicates **NEW** product

Fan covers - standard

Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
XP100, XP100 ID1			
J44FH1002A01PSP	440T	1,030	77

Red catalog number indicates **NEW** product

Fan covers - drip cover ready



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
GP100			
J14FH4500A02PSP	140	120	4
J18FH4501A02PSP	180	200	11
J21FH4501A03PSP	210	200	11
J25FH4501A01PSP	250	240	11
J28FH4504A02PSP	280	240	29
J44FH5001A01PSP	440	950	55
GP100A			
J14FH4500A03PSP	140	120	4
J18FH4501A03PSP	180	160	11
J21FH4501A04PSP	210	160	11
J25FH4501A02PSP	250	200	11
SD100, SD100 IEEE			
J14FH4500A01PSP	140	240	7
J18FH4501A01PSP	180	280	12
J21FH4501A02PSP	210	400	13
J25FH4501A00PSP	250	640	18
J32FH4504A01PSP	280	640	32
J32FH4503A01PSP	320	670	37
J36FH5001A01PSP	360	910	52
J40FH5001A01PSP	400	910	55
XP100, XP100 ID1			
J14FH4500A04PSP	140	240	11
J18FH4501A04PSP	180	280	11
J21FH4501A05PSP	210	320	11
J25FH4501A03PSP	250	400	18
J28FH4504A03PSP	280	670	29
J32FH4503A02PSP	320	1,190	37
J36FH5001A02PSP	360	1,190	52
J40FH5001A02PSP	400	1,190	55
J44FH5001A02PSP	440	1,190	55

Red catalog number indicates **NEW** product

Drip covers

Features

- Painted steel drip cover
- Includes mounting hardware
- May required replacement fan cover

Applications

- ABB - NEMA Motors

Drip covers for General Purpose



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
GP100			
J14FH4500A06PSP	140	280	1
J18FH4501A06PSP	180	280	1
J21FH4501A07PSP	210	280	1
J25FH4501A05PSP	250	280	1
J28FH4504A06PSP	280	290	1
J32FH4503A05PSP	320	290	1
J36FH4502A03PSP	360	290	1
J40FH4500A01PSP	400	290	2
J44FH4500A01PSP	440	290	2
GP100A			
J14FH4500A05PSP	140	280	1
J18FH4501A05PSP	180	280	1
J21FH4501A06PSP	210	280	1
J25FH4501A04PSP	250	280	1

Red catalog number indicates **NEW** product

Drip covers for Severe Duty



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
SD100, SD100 IEEE			
J14FH4500A07PSP	140	280	1
J18FH4501A07PSP	180	280	1
J21FH4501A08PSP	210	280	1
J25FH4501A06PSP	250	280	1
J28FH4504A04PSP	280	300	2
J32FH4503A03PSP	320	300	2
J36FH4502A01PSP	360	300	2
J40FH4500A02PSP	400	290	2
SD200, SD200 841			
J44FH4500A05PSP	440	290	2
J44FH4500A06PSP	L449	290	2
SD200, SD200 841, DP200			
J50FH4500A01PSP	500	290	2

Red catalog number indicates **NEW** product

Drip covers for Explosion Proof



Catalog Number	NEMA Frame	List Price	Aprx. Wt. (lb)
XP100, XP100 ID1			
J14FH4500A08PSP	140	280	1
J18FH4501A08PSP	180	280	1
J21FH4501A09PSP	210	280	1
J25FH4501A07PSP	250	280	1
J28FH4504A05PSP	280	290	1
J32FH4503A04PSP	320	290	2
J36FH4502A02PSP	360	290	2
J40FH4500A03PSP	400	290	2
J44FH4500A03PSP	440	290	2

Red catalog number indicates **NEW** product



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