

**RPM AC,
Salient Pole
PM Rotor,
Three Phase,
TEBC**

10 thru 150 Hp

FL1831C thru FL2890

Applications: Extruders, conveyors, crane & hoist systems, converting, pumps, web processing, test stands, traction duty, winders, printing.

Features: Above premium efficient design utilizing salient pole PM rotor technology to achieve high efficiency, low FLA and optimized power factor. Synchronous speed performance in a compact square frame design FL180 aluminum and FL210-280 laminated steel frame design. Must be applied with VS1PM permanent magnet drive specifically designed for permanent magnet rotor performance. Speed feedback and rotor positioning provided via Tamagawa resolver (800123-5A). Continuous constant torque from base speed down to zero speed 1000:1 turn down. Premium class H insulation 40 C ambient, 1.0 S.F., ball bearings, three normally closed thermostats (one per phase). Surpasses the requirements of MG1, Part 31. Exclusive optimum pole Inverter Duty - not for across the line operation.



Hp	Base Speed RPM	C.H. Speed RPM	NEMA Frame	Catalog Number	List Price ^(c)	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency ^(b)	Voltage	Full Load Amps ^(b)	Rotor Inertia lb-ft ²	Notes ^(a)
10	1800	3000	FL1831C	ZDPM18010C-BV	7,233	E2	22.08	132	94.0	230/460	10.6	0.46	8, 77, 91
15	1800	3000	FL1838C	ZDPM18015C-BV	7,315	E2	22.71	158	94.6	460	16.0	0.63	8, 77, 92
20	1800	3000	FL1844C	ZDPM18020C-BV	8,892	E2	25.96	180	94.7	460	21.7	0.77	8, 77, 92
25	1800	3000	FL1852C	ZDPM18025C-BV	8,913	E2	27.96	209	95.1	460	26.6	0.96	8, 77, 92
30	1800	3000	FL1852C	ZDPM18030C-BV	8,913	E2	27.96	209	94.7	460	32.3	0.96	8, 77, 92
40	1800	3000	FL2162	ZDPM21040-BV	9,339	E2	28.55	290	94.5	460	43.2	2.14	8, 77, 93
50	1800	3000	FL2168	ZDPM21050-BV	9,674	E2	30.06	325	94.8	460	53.4	2.60	8, 77, 93
60	1800	3000	FL2173	ZDPM21060-BV	10,597	E2	31.31	355	94.8	460	65.7	2.99	8, 77, 93
75	1800	3000	FL2578	ZDPM25075-BV	17,411	E2	33.85	540	95.8	460	81.8	4.90	8, 77, 93
100	1800	3000	FL2586	ZDPM25100-BV	18,448	E2	35.85	605	95.7	460	110.6	5.83	8, 77, 93
125	1800	3000	FL2882	ZDPM28125-BV	19,486	E2	39.27	730	95.9	460	137.0	8.82	8, 77, 93
150	1800	3000	FL2890	ZDPM28150-BV	20,523	E2	41.27	805	96.0	460	168.0	10.56	8, 77, 93

^(a) See notes on inside back flap.

^(b) The data - including efficiency - is for fundamental sinewave components of amps and volts and does not include losses due to inverter pwm waveshapes.

^(c) List price includes magnet surcharge and resolver.

All TEBC have integral blower rated 230/460 volts 3 phase.

MUST BE APPLIED WITH DRIVE SPECIFICALLY DESIGNED FOR PERMANENT MAGNET ROTOR PERFORMANCE.