

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

**10 thru 100 Hp**

**FL1831C thru FL2586**

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

**Features:** Synchronous speed performance in a compact square frame design FL180 aluminum and FL210-250 laminated steel frame design. Must be applied with drive specifically designed for permanent magnet rotor performance, feedback control normally required. 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. Above premium efficient design utilizing salient pole PM rotor technology to achieve high efficiency, low FLA and optimized power factor.



Hp	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency (a)	Voltage	Full Load Amps (a)	Rotor Inertia lb-ft <sup>2</sup>	Notes (b)
10	1800	FL1831C	ZDPM18010C-BV(c)	5,880	E2	27.50	135	93.6	230/460	11.17	0.46	
15	1800	FL1838C	ZDPM18015C-BV(d)	6,013	E2	29.00	143	94.3	460	16.15	0.63	
20	1800	FL1844C	ZDPM18020C-BV(d)	6,443	E2	30.50	180	95.3	460	22.53	0.77	
25	1800	FL1852C	ZDPM18025C-BV(d)	7,274	E2	32.50	209	95	460	26.74	0.96	
30	1800	FL1852C	ZDPM18030C-BV(d)	7,573	E2	32.50	209	95	460	32.59	0.96	
40	1800	FL2162	ZDPM21040-BV(e)	7,764	E2	33.50	290	95.9	460	44.68	2.14	
50	1800	FL2168	ZDPM21050-BV(e)	9,438	E2	35.00	330	95.7	460	54.83	2.60	
60	1800	FL2173	ZDPM21060-BV(e)	11,602	E2	36.00	355	95.6	460	66.77	2.99	
75	1800	FL2578	ZDPM25075-BV(e)	13,501	E2	38.50	540	96.4	460	82.29	4.90	
100	1800	FL2586	ZDPM25100-BV(e)	17,433	E2	40.50	605	96.5	460	110.42	5.83	

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

(b) See notes on pages 8-9, and inside back flap.

(c) Foot mounted and 210TC face.

(d) Foot mounted and 250TC face.

(e) Foot mounted only.

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

Contact your Baldor-Reliance District Office for proper drive selection.

**V\*S Master and  
RPM AC Encoder  
Feedback Kits**

Encoder kits below feature 1024 pulses per revolution unless otherwise noted in the encoder type column. Connector styles include the MS twist lock (MS-TL), military style 10 pin screw tight (MS-ST), and the EPIC latch style (Latch). HS35, RAHS35M and HSD35 feature hollow shaft mounting. The HSD35 carry the Northstar brand. The H20 is a couple mount encoder. The RL67 and SL85 are bearingless encoders and both carry the Northstar brand. Encoder kits include the encoder and all mounting hardware. IDVSM & IDRPM kits include the mating connector.

Catalog Number	Motor Enclosure	Type	PPR	Frame Size	Mfg.	Mag or Optical	Conn Type	Input Voltage VDC	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
K99G72	TENV	HS35	1024	180T-250T	BEI	0	MS-ST	5-15	1120	E8	6
K99G74	TENV	HS35-2048	2048	180T-250T	BEI	0	MS-ST	5-15	1120	E8	6
K99G76	TENV	HS35	1024	180T-250T	BEI	0	MS-ST	5-24	1120	E8	6
K99G70	TENV	RAHS35M	1024	180T-250T	Avtron	M	MS-ST	5-24	1120	E8	9
K99G78	TENV	HSD35	1024	180T-250T	Dynapar	0	Latch	5-26	1260	E8	8
K99G73	TEFC	HS35	1024	180T-440T	BEI	0	MS-ST	5-15	1120	E8	6
K99G75	TEFC	HS35-2048	2048	180T-440T	BEI	0	MS-ST	5-24	1120	E8	6
K99G77	TEFC	HS35	1024	180T-440T	BEI	0	MS-ST	5-24	1120	E8	6
K99G71	TEFC	RAHS35M	1024	180T-440T	Avtron	M	MS-ST	5-24	1120	E8	9
K99G79	TEFC	HSD35	1024	180T-440T	Dynapar	0	Latch	5-26	1260	E8	8

**NOTE:** For 56 and 140 IDVSM frame sizes use the kits from the IDM product table above.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes