

EXTRUDER DUTY RPM AC MOTORS

RPM AC EXTRUDER DUTY MOTORS

- 1000:1 constant torque
- 10 to 700 HP at 1750 RPM
- NEMA Class B rise at all speeds (including zero speed)
- 200% starting and overload torque up to base speed
- Higher constant power speed range for higher productivity
- Compact and rugged laminated steel frames with cast iron brackets standard on every motor – coolest bearings for long life
- FL180 is rugged extruded aluminum frame with cast iron brackets
- Shutdown and warning thermostats for superior winding protection
- Washable canister filter reduces contamination (Replaceable on L440 frames)
- Encoder provisions are standard
- UL recognized and CSA certified (CE mark when requested)
- Surpasses NEMA MG.1 Part 31 spike voltage requirements



the temperature rise is Class B. The benefit is four times the motor insulation system life. These designs are not just re-rated motors, but are carefully power matched to the HP needed for optimum amps and full load torque.

Unique laminated frame technology achieves high power density, resulting in frames that are more compact and lighter weight than most DC and NEMA cast iron motors – easy to replace any motor AC or DC.

The constant HP range also has been extended to allow full constant horsepower operation at higher speeds than competitive ratings. This feature may allow replacement of multiple base speed motor ratings with one RPM AC Extruder Duty motor. See rating chart on reverse side of this sheet.

When your extruder or injection molding application demands high inverter duty performance, RPM AC Drip-Proof Guarded Force Ventilated motors offer the ideal solution. Now, for those applications that require lower surface and winding temperatures, the RPM AC Extruder Duty design allows you to easily select cooler operating motors.

RPM AC Extruder Duty motors include premium epoxy Class H insulation system, and have been sized to operate at NEMA class B temperature rises. **Even at zero speed with continuous full load torque,**

✓ Aggregate/Cement

✓ Food

✓ Mining

✓ Forest/Paper

✓ Petro/Chem

✓ Unit/Baggage Handling

✓ HVAC/Industrial Air Handling

✓ Environmental/Fluid Power

✓ Automotive

✓ Metals

RPM AC EXTRUDER DUTY RATING TABLE⁽³⁾

HP	BASE RPM	CONSTANT HP RPM	FRAME	TYPICAL FLA @460V	WEIGHT (LBS)	DIMENSION SHEET	MOUNTING(2)
10	1750	3500	FL1831CZ	14	153	617528-13	FOOT/210TC
	1150	2300	FL1844CZ	14	201	617233-23	FOOT/250TC
15	1750	3000	FL1844CZ	21	201	617233-23	FOOT/250TC
	1150	2300	FL1852CZ	21	230	617236-23	FOOT/250TC
20	1750	3000	FL1852CZ	27	230	617236-23	FOOT/250TC
	1150	1800	RL2162CZ	27	305	617202-5	FOOT/250TC
25	1750	3500	RL2158CZ	34	278	617259-13	FOOT/250TC
	1150	2300	RL2168CZ	34	345	617206-4	FOOT/250TC
30	1750	3510	RL2162CZ	40	305	617202-5	FOOT/250TC
	1150	1730	RL2168CZ	40	345	617206-4	FOOT/250TC
40	1750	3230	RL2168CZ	52	345	617206-4	FOOT/250TC
	1150	1800	RL2570CZ	52	480	617214-13	FOOT/250TC
50	1750	2550	RL2173CZ	65	375	617210-13	FOOT/250TC
	1150	2000	RL2578C	65	545	617218-13	FOOT/250TC
60	1750	2600	RL2570C	77	480	617214-13	FOOT/250TC
	1150	2200	L2882	77	775	616760-1	FOOT
75	1750	3000	RL2578C	96	545	617218-13	FOOT/250TC
	1150	1750	L2882Z	96	775	616760-1	FOOT
100	1750	2650	L2882Z	124	775	616760-1	FOOT
	1150	1400	L2898Z	124	1065	616760-1	FOOT
125	1750	2950	L2890Z	157	915	616760-1	FOOT
	1150	2350	L3203Z	156	1185	616764-1	FOOT
150	1750	2650	L2898Z	180	1065	616760-1	FOOT
	1150	2350	L3213Z	180	1325	616764-1	FOOT
200	1750	2500	L3203Z	240	1185	616764-1	FOOT
	1150	2000	L3614Z	240	1715	609998-1	FOOT
250	1750	2500	L3698Z	300	1395	609998-1	FOOT
	1150	2000	L4034Z	302	2050	609998-1	FOOT
300	1750	3000	L3614Z	360	1715	609998-1	FOOT
	1150	2000	L4034Z	361	2000	609998-1	FOOT
350	1750	2700	L4034Z	414	2000	609998-1	FOOT
	1150	2500	L4046Z	398	2050	609998-1	FOOT
400	1750	2500	L4034Z	449	2000	609998-1	FOOT
	1150	1700	L4429Z(1)	507	3000	615917-1	FOOT
450	1750	2650	L4046Z	530	2050	609998-1	FOOT
	1150	2000	L4461Z(1)	580	3889	615917-1(1)	FOOT
500	1750	3000	L4046Z	560	3000	609998-1	FOOT
	1150	2380	L4461Z(1)	669	3889	615917-1	FOOT
600	1750	2700	L4451Z(1)	747	3612	615917-1	FOOT
700	1750	2700	L4461Z(1)	864	3889	615917-1	FOOT

(1) All L440 frames include premium class H insulation with VPI, and an insulated opposite drive end bearing.

(2) For other flange mounting options, IEC frames, and TEFC or TEBC options, contact Reliance Electric

(3) For IEC frame extruder duty RPM AC motors see the Variable Speed Motors catalog at www.reliance.com



www.ptplace.com www.dodge-pt.com www.reliance.com www.endorsia.com

Dodge and Reliance Electric Headquarters

Americas: 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe/Middle East/Africa: Hermann-Heinrich-Gossen-Strasse 3, 50858 Köln, Germany, Tel: +49 (0) 2234-37941-0, Fax: +49 (0) 2234-37941-64

Asia Pacific: 55 Newton Rd., #11-01/02 Revenue House, Singapore, 307987, Tel: (65) 6356-9077, Fax: (65) 6356-9011

RAPS-1371-2 8/06-10M-K Copyright © 2006 Reliance Electric Company All Rights Reserved. Printed in USA.

This material is not intended to provide operational instructions. Appropriate Dodge/Reliance Electric instruction manuals and precautions should be studied prior to installation, operation or maintenance of equipment.