

# AC890PX Motors

## Inverter Duty and Vector Duty



### Description

Parker SSD can now provide Inverter Duty and Vector Duty motors that let you get the most out of your AC890PX drive. With your choice of a wide variety of frame styles, every rating includes specific features demanded by high performance drive applications.

Cast iron frames with totally enclosed non-ventilated construction are available for harsh environments, while compact laminated frame designs with forced ventilation can fit into the tightest spaces while providing 1000:1 constant torque speed range and excellent dynamic performance.

Not all motors are created equal. Don't settle for a re-rated constant speed motor for variable speed applications. All Parker SSD Inverter and Vector Duty motors are provided with insulation that is suitable for use with IGBT based PWM drives, and with 200% torque overload capability. Ask for a performance matched package every time.



### Information Contact

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### RPM AC™ Product Features

- Unique square laminated steel frames (FL210 - L440)
- Most compact, lightest weight
- Cast iron feet and end brackets
- Wide constant HP range - 4:1 to 12:1 available
- Low inertia design for faster dynamic response
- Replace DC motors with minimal mechanical issues
- Corona free insulation system
- Force ventilated open and enclosed blower cooled frames

### V\*S Master™ Product Features

- Cast iron frames and end brackets
- Corona free insulation system
- 200% overload torque for 1 minute
- Three thermostats
- Constant HP to 1.5 times base speed
- Class F insulation
- Stainless steel nameplate
- Re-greaseable bearings
- TEFC ratings provide continuous full load torque from 0 to base speed
- CSA certified and UL recognized

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Part Number	HP	Base Speed	Frame Size	Enclosure	Voltage	FL Amps	Encoder
BRDRP281506	150	1800	L2882	DPG-FV	460	180	OPT
BRBRP321504	150	1800	L3213	TEBC	460	177	OPT
BRBRP321504-01	150	1800	L3213	TEBC	460	177	STD
BRDRP321506	150	1200	L3203	DPG-FV	460	180	OPT
BRDRP282004	200	1800	L2898	DPG-FV	460	237	OPT
BRBRP362004	200	1800	L3614	TEBC	460	227	OPT
BRBRP362004-01	200	1800	L3614	TEBC	460	227	STD
BRDRP322006	200	1200	L3213	DPG-FV	460	236	OPT
BRDRP322504	250	1800	L3203	DPG-FV	460	290	OPT
BRBRP402504	250	1800	L4034	TEBC	460	283	OPT
BRDRP362504	250	1200	L3614	DPG-FV	460	289	OPT
BRDRP323004	300	1800	L3213	DPG-FV	460	350	OPT
BRBRP403004	300	1800	L4046	TEBC	460	336	OPT
BRDRP403006	300	1200	L4034	DPG-FV	460	360	OPT
BRDRP364004*	400	1800	L3614	DPG-FV	460	477	OPT
BRDRP404006	400	1200	L4046	DPG-FV	460	451	OPT
BRDRP405004	500	1800	L4034	DPG-FV	460	557	OPT

RPM AC™ Series



The **RPM AC™** series of AC motors was designed specifically for optimum inverter duty performance, and offers high performance over a wide speed range. The compact, square cross-section, laminated steel frame includes cast iron brackets with feet for maximum ruggedness and stability. The unique low inertia design allows fast acceleration and high dynamic response. And to assure long and reliable motor life, Corona-Free insulation is used on all RPM AC™ ratings.

\* The corresponding AC890PX drive is rated 460 amps continuous with 150% overload.

Part Number	HP	Base Speed	Frame Size	Enclosure	Voltage	FL Amps	Encoder
BRVS4406T	150	1800	445T	TEFC	460	177	OPT
BRVS4406T-01	150	1800	445T	TEFC	460	177	STD
BRVS4407T	200	1800	447T	TEFC	460	226	OPT
BRVS4407T-01	200	1800	447T	TEFC	460	226	STD
BRVS4408T	250	1800	449T	TEFC	460	277	OPT
BRVS4408T-01	250	1800	449T	TEFC	460	277	STD
BRVS44304T	300	1800	449T	TEFC	460	338	OPT
BRVS44304T-01	300	1800	449T	TEFC	460	338	STD

V\*S Master™ Series



For applications in tougher environments, we offer **V\*S Master™**, featuring cast iron frame and end shields. Overload is no problem, with 200% capability for 60 seconds. Corona-Free insulation and an insulated CE bearing extend lifetime.

RPM AC and V\*S Master are registered trademarks of Baldor Electric Co.

**Explanation of enclosures:**

DPG-FV (Drip-Proof Guarded Force Ventilated) - IEC IP23/IC06. Motor cooling is provided by motor-mounted blower driven by an integrally mounted three-phase blower motor.

TEBC (Totally Enclosed Air-Over Blower-Cooled) - IEC IP44/IC416. In-line blower cooled motors incorporate unique integral air ducts in the frame, external to the windings. The integrally mounted, independently powered three phase blowers result in low noise levels over wide speed ranges.

TEFC (Totally Enclosed Fan-Cooled) - IEC IP44/IC411. Exterior surface cooled by external fan mounted on motor shaft.

Encoder note: All motors above are available with an encoder suitable for use with Parker SSD AC drives. On some ratings, the encoder is an option, while on others it is provided as standard equipment. The standard encoder is a 1024 PPR quadrature style with mating connector. Please inquire if you have any special encoder requirements.

The motors listed in this publication are standard ratings, and have been selected for the AC890PX drive. Other variations of these motors are available on request, such as different base speeds, enclosure ratings, and with accessories and modifications. Please feel free to inquire about any motor requirement not listed above and we will be happy to provide a quotation.

