HEINZMANN®
thinking in drive and control

PRI 70/90/110/135

Radial flux motor series for a wide range of applications

HEINZMANN's new PRI motor series features compact, reliable, and highly efficient synchronous motors with IPM (Interior Permanent Magnet) rotor technology. It was developed to meet the demanding requirements of mobile drive technology as well as stationary applications and can be individually adapted to the specific customer application, both regards interfaces and electric characteristics. It offers excellent mechanical robustness in addition to a high ingress protection rating.

Due to high-quality materials, such as corrosion-resistant aluminum alloy, the motor is well protected against environmental influences. A significant reduction of magnetic materials as well as the modular architecture guarantees value for money. All PRI machines can be used equally as a motor or a generator, options for braking mode operation and for recuperation are included.

PRI 110-50

FEATURES

- **High efficiency and reliability**
- **Robust and enduring construction**
- **Maintenance-free**
- **Air-cooled**
- **Customised shaft possible**
- **Electromechanical brake applicable**
- **Field weakening possible**

RANGE OF APPLICATIONS

- E-Mobility
- Agricultural sector
- Construction machinery
- Municipal machinery
- Industrial applications
- Hydraulic systems
- Fans
- Pumps

PRI 70

TECHNICAL DATA*

	Size	Power (rated)	Power (peak)	Speed (rated)	Speed (@600Hz)	Poles	Torque (rated)	Torque (peak)	Voltage (rated)	Eta (max)	Mass
	mm	kW	kW	rpm	rpm		Nm	Nm	V	%	kg
PRI 70-25 /XXX30	Ø: 127 L: 75	1	2	3000	7200	10	3.2	6.4	24 / 48	88%	3.2
PRI 70-25 /XXX60	Ø: 127 L: 75	1	2	6000	7200	10	1.6	6.4	24 / 48	87%	3.2
PRI 70-50 /04830	Ø: 127 L: 100	2	4	3000	7200	10	6.4	12.7	48	91%	5
PRI 70-50 /04860	Ø: 127 L: 100	2	4	6000	7200	10	3.2	12.7	48	90%	5
PRI 70-75 /XXX30	Ø: 127 L: 125	3	6	3000	7200	10	9.5	19.1	48 / 96	92%	5.9
PRI 70-75 /XXX60	Ø: 127 L: 125	3	6	6000	7200	10	4.8	19.1	48 / 96	91%	5.9

▸ Preliminary data based on calculations with air cooling and min. 5 m/s air flow ▸ "/XXX..." number depending on rated voltage

PRI 90

TECHNICAL DATA*

	Size	Power (rated)	Power (peak)	Speed (rated)	Speed (@600Hz)	Poles	Torque (rated)	Torque (peak)	Voltage (rated)	Eta (max)	Mass
	mm	kW	kW	rpm	rpm		Nm	Nm	V	%	kg
PRI 90-25 /XXX30	Ø: 162 L: 122	2	4	3000	7200	10	6.4	12.7	24 / 48	88%	5.6
PRI 90-25 /XXX60	Ø: 162 L: 122	2	4	6000	7200	10	3.2	12.7	24 / 48	89%	5.6
PRI 90-50 /XXX30	Ø: 162 L: 147	4	8	3000	7200	10	12.7	25.5	48 / 96	91%	8
PRI 90-50 /XXX60	Ø: 162 L: 147	4	8	6000	7200	10	6.4	25.5	48 / 96	92%	8
PRI 90-75 /XXX30	Ø: 162 L: 172	6	12	3000	7200	10	19.1	38.2	48 / 96	93%	10.4
PRI 90-75 /09660	Ø: 162 L: 172	6	12	6000	7200	10	9.5	38.2	96	94%	10.4

▸ Preliminary data based on calculations with air cooling and min. 5 m/s air flow ▸ „/XXX..." number depending on rated voltage

*All data preliminary and subject to changes.

PRI 110

TECHNICAL DATA*

	Size	Power (rated)	Power (peak)	Speed (rated)	Speed (@600Hz)	Poles	Torque (rated)	Torque (peak)	Voltage (rated)	Eta (max)	Mass
	mm	kW	kW	rpm	rpm		Nm	Nm	V	%	kg
PRI 110-25 /XXX30	Ø: 188 L: 129	2.5	4,5	3000	6000	12	8.0	15.9	24 ... 96	92%	7.9
PRI 110-25 /XXX45	Ø: 188 L: 129	2.5	4,5	4500	6000	12	5.3	15.9	24 ... 96	91%	7.9
PRI 110-50 /XXX30	Ø: 188 L: 154	5	9	3000	6000	12	15.9	31.8	48 / 96	93%	11
PRI 110-50 /XXX45	Ø: 188 L: 154	5	9	4500	6000	12	10.6	31.8	48 ... 330	92%	11
PRI 110-75 /XXX30	Ø: 188 L: 179	7.5	13,5	3000	6000	12	23.9	47.7	48 ... 330	94%	14.1
PRI 110-75 /XXX45	Ø: 188 L: 179	7.5	13,5	4500	6000	12	15.9	47.7	48 ... 330	93%	14.1
PRI 110-100 /33030	Ø: 188 L: 204	10	18	3000	6000	12	31.8	63.7	330	95%	17.2
PRI 110-100 /33045	Ø: 188 L: 204	10	18	4500	6000	12	21.2	63.7	330	94%	17.2

▸ Preliminary data based on calculations with air cooling and min. 5 m/s air flow ▸ „/XXX..." number depending on rated voltage

PRI 135

TECHNICAL DATA*

	Size	Power (rated)	Power (peak)	Speed (rated)	Speed (@600Hz)	Poles	Torque (rated)	Torque (peak)	Voltage (rated)	Eta (max)	Mass
	mm	kW	kW	rpm	rpm		Nm	Nm	V	%	kg
PRI 135-25 /XXX30	Ø: 230 L: 153	4.4	10.5	3000	6000	12	14.0	28.0	330 / 560	93%	11.6
PRI 135-25 /XXX45	Ø: 230 L: 153	4.4	10.5	4500	6000	12	9.3	28.0	330 ... 800	93%	11.6
PRI 135-50 /XXX30	Ø: 230 L: 178	8.7	19.5	3000	6000	12	27.7	55.4	330 ... 800	94%	16.4
PRI 135-50 /XXX45	Ø: 230 L: 178	8.7	19.5	4500	6000	12	18.5	55.4	330 ... 800	94%	16.4
PRI 135-75 /XXX30	Ø: 230 L: 203	13	29	3000	6000	12	41.5	83.1	330 ... 800	95%	21.2
PRI 135-75 /XXX45	Ø: 230 L: 203	13	29	4500	6000	12	27.7	83.1	330 ... 800	95%	21.2
PRI 135-100 /XXX30	Ø: 230 L: 228	17.4	39	3000	6000	12	55.4	110.8	330 ... 800	95%	26
PRI 135-100 /XXX45	Ø: 230 L: 228	17.4	39	4500	6000	12	36.9	110.8	330 ... 800	95%	26
PRI 135-150 /XXX30	Ø: 230 L: 278	26.1	58.5	3000	6000	12	83.1	166.2	330 ... 800	96%	30.8
PRI 135-150 /XXX45	Ø: 230 L: 278	26.1	58.5	4500	6000	12	55.4	166.2	330 ... 800	96%	30.8

▸ Preliminary data based on calculations with air cooling and min. 5 m/s air flow ▸ „/XXX..." number depending on rated voltage

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