

HIGH DYNAMIC ELECTRICAL MACHINES



MAC R Series
Asynchronous motors for inverter duty

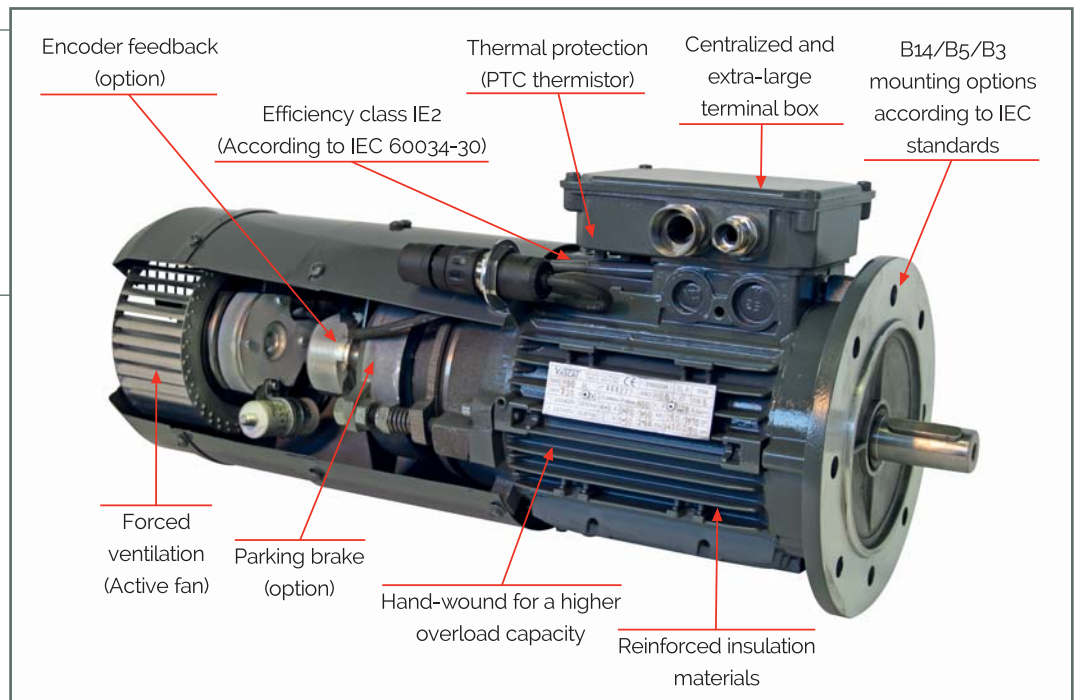


Constructive details

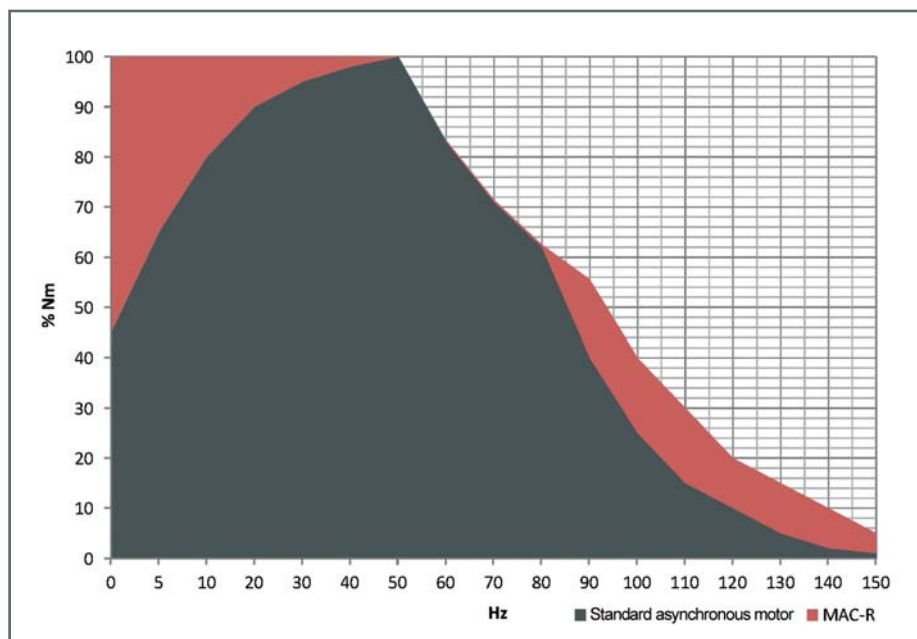
From 0,75 to 7,1 kW

Frame sizes 80-112 mm

■ High efficient asynchronous motors specifically designed for inverter duty



Performance curve



Main advantages

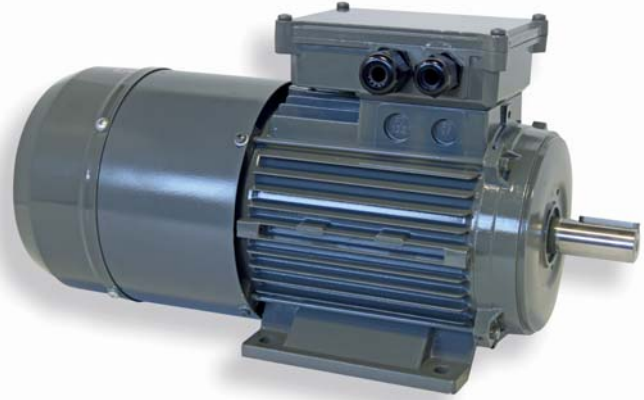
- Nominal torque from 0 rpm without overheating
- Higher torque comparing to standard induction motors with same frame
- Servo motor performances: High accuracy in speed and position control
- Energy savings: High efficiency and inverter operation
- Longer lifetime: Reinforced insulation materials

Asynchronous motors for inverter duty

MAC
DIVISION

Main characteristics

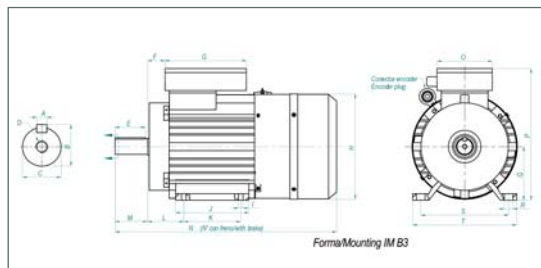
- **Motor type:** Asynchronous squirrel-cage motor
- **Protection degree:** IP 54
- **Nominal voltage:** 400 Vac (Inverter duty)
- **Insulating materials:** Class F
- **Cooling type:** IC 416 (Active fan)
- **Efficiency:** IE2 class



Technical performances

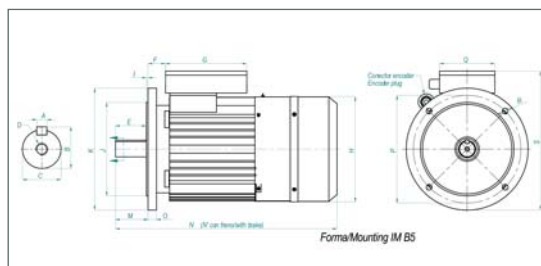
MOTOR TYPE		Power (kW)	Nominal Torque (Nm)	Nominal Speed (rpm)	Nominal Current (A)	Inertia (Kg/m ²)	Weight (Kg)
MAC R 080	.70	0,75-1,33	5	1420-2530	1,7-2,9	0,00182	13
MAC R 090	.100	1,5-2,7	10,1	1420-2530	3,4-5,9	0,00383	16
MAC R 100	.120	3-5,3	20,1	1425-2535	6,5-11,3	0,00633	27
MAC R 112	.140	4-7,1	26,5	1430-2550	7,6-13,2	0,00935	34

Dimensions



Mounting IM-B3

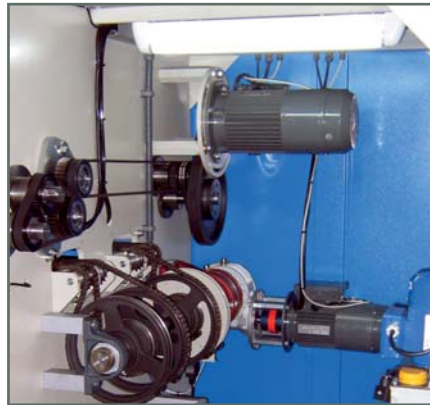
MOTOR TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	N'	O	P	Q	R	S	T	
MAC R 080	.70	6	21,5	19 ϕ 6	M6	35	28	146	160	9,5	125	100	50	40	390	449	102	209	80	17,5	125	154
MAC R 090	.100	8	27	24 ϕ 6	M8	45	32	194,5	177	9,5	155	125	56	50	433	568	124,5	241	90	17,5	140	174
MAC R 100	.120	8	30	28 ϕ 6	M10	55	40,5	194,5	192	11,2	175	140	63	60	474	613	124,5	262	100	21,2	160	192
MAC R 112	.140	8	30	28 ϕ 6	M10	55	44	194,5	220	11,2	175	140	70	60	487	622	124,5	286	112	21,2	190	224



Mounting IM-B5

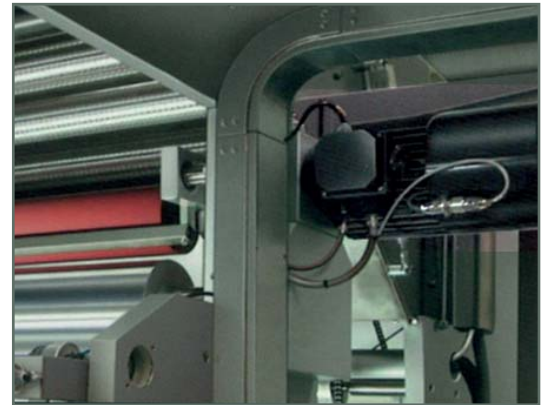
MOTOR TYPE	A	B	C	D	E	F	G	H	I	J	K	M	N	N'	O	P	Q	R	S	
MAC R 080	.70	6	21,5	19 ϕ 6	M6	35	28	146	160	3,5	130 ϕ 6	200	40	390	449	11	165	102	11	229
MAC R 090	.100	8	27	24 ϕ 6	M8	45	32	194,5	177	3,5	130 ϕ 6	200	50	433	568	10	165	124,5	11	251
MAC R 100	.120	8	30	28 ϕ 6	M10	55	40,5	194,5	192	4	180 ϕ 6	250	60	474	613	15,5	215	124,5	15	287
MAC R 112	.140	8	30	28 ϕ 6	M10	55	44	194,5	220	4	180 ϕ 6	250	60	487	622	15,5	215	124,5	15	299

Main applications for MAC R motors

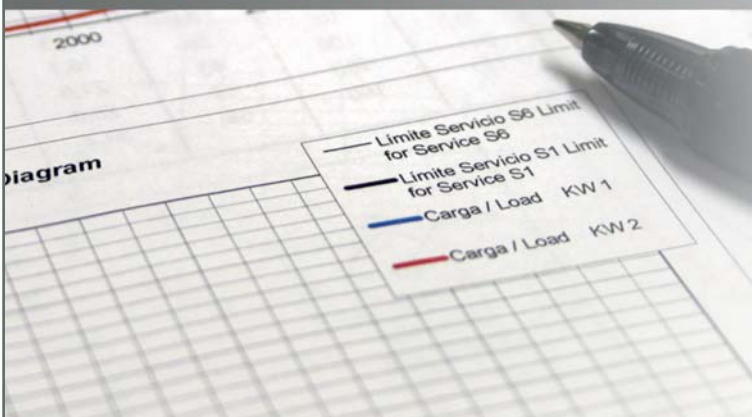


- Stackers and Feeders
- Winders / Rewinders
- Gantry cranes
- Packaging machines
- Testing systems
- High inertia machinery

And much more



INNOVATIVE SOFTWARE TOOLS



- Application calculation spreadsheets
- Motor sizing program
- Interactive motor datasheets
- 2D drawings and 3D models for all motors

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