

What **If...**

there was a highly efficient
PMAC motor that covered
a wide range of power?

marathon[®]
Motors



SYMAX[®] PERMANENT MAGNET AC MOTOR (PMAC) THE NEXT STEP IN ELECTRIC MOTOR EFFICIENCY

SyMAX PMAC motors meet or exceed IE4 efficiency levels and are catalog stocked in ½ - 30 HP configurations. They are constructed of rolled steel and cast iron with custom build options available to fit your needs.

REGAL[®]

SYMAX® PERMANENT MAGNET AC MOTOR

FEATURES

- Power Rating: up to 30 HP
- Voltage: 400VAC or 460VAC 50/60HZ
- IE4 plus efficiency levels
- Patented **MAX GUARD®** insulation system
- TEFC or optional TENV construction
- C-face/Foot mount style available
- **CE** mark

BENEFITS

- Broad product offering that is designed for high speed & high performance air moving, compressor, and pumping applications
- Wide voltage/frequency range meeting global requirements
- IE4 efficiencies increase energy savings and reduce operating costs
- “Performance Matched” to all leading brands of VFD’s
- Direct drop-in replacement, with 1-2 frame size reduction possible

TEFC - Normal NEMA frame sizes shown below*																	
HP	RPM																
	900		1000		1200		1500		1800		2250		3000		3600		
	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	Lb-Ft	Frame	
0,25	1,5	56	1,3	56	1,1	56	0,9	56	0,7	56	0,6	56	0,4	56	0,4	56	
0,33	1,9	56	1,7	56	1,4	56	1,2	56	1,0	56	0,8	56	0,6	56	0,5	56	
0,5	2,9	56/143T	2,6	56/143T	2,2	56	1,8	56	1,5	56	1,2	56	0,9	56	0,7	56	
0,75	4,4	56/145T	3,9	56/145T	3,3	56/145T	2,6	56	2,2	56	1,8	56	1,3	56	1,1	56	
1	5,8	182T	5,3	182T	4,4	56/145T	3,5	56/143T	2,9	56/143T	2,3	56/143T	1,8	56/143T	1,5	56/143T	
1,5	8,8	184T	7,9	184T	6,6	182T	5,3	56/145T	4,4	56/143T	3,5	56/143T	2,6	56/143T	2,2	56/143T	
2	11,7	213T	10,5	213T	8,8	184T	7,0	182T	5,8	56/145T	4,7	56/143T	3,5	56/145T	2,9	56/145T	
3	17,5	215T	15,8	215T	13,1	213T	10,5	182T	8,8	182T	7,0	182T	5,3	182T	4,4	182T	
5	29,2	254T	26,3	254T	21,9	215T	17,5	184T	14,6	184T	11,7	184T	8,8	184T	7,3	184T	
7,5	43,8	256T	39,4	256T	32,8	254T	26,3	213T	21,9	213T	17,5	213T	13,1	213T	10,9	213T	
10	58,3	284T	52,5	284T	43,8	256T	35,0	215T	29,2	215T	23,3	215T	17,5	215T	14,6	215T	
15	87,5	286T	78,8	286T	65,6	284T	52,5	254T	43,8	254T	35,0	254T	26,3	254T	21,9	254T	
20					87,5	286T	70,0	256T	58,3	256T	46,7	256T	35,0	256T	29,2	256T	
25							87,5	284T	72,9	284T	58,3	284T	43,8	284TS	36,5	284TS	
30							105,0	286T	87,5	286T	70,0	286T	52,5	286T	43,8	286TS	
	Steel frame		Cast Iron frame														

*Additional graphs available for TEFC power dense frame sizes and TENV normal and power dense frame sizes

Commercial and industrial applications including: ventilation, pumping and conveying



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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates (“Regal”) with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer’s risk.

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