

marathon®

marathon®  
Motors



# PPA MINING MOTOR

## SPECIFICATIONS

Frame	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450		
<b>MECHANICAL FEATURES</b>																	
Standard	IEC 60034, IEC 60072 and AS/NZS 1359																
Cooling Method	TEFC (IC 411)																
Degree of Protection (IP Rating)	IP66																
Motor Frame Material	Cast Iron																
End Shields Material	Cast Iron																
Fan Material	Cast Iron																
Fan Cowl Construction and Material	Conical, Fabricated Steel																
Direction of Rotation	Clockwise viewed from DE with Bi-directional fans																
Mounting Configuration	B3 (IM 1001), B5 (IM 3001), B35 (IM 2001), etc.																
Fan Cowl Construction and Material	Conical, Fabricated Steel																
Drains	Sintered Bronze Drain Plug																
DE Bearing	2 Pole	6204ZZ	6205ZZ	6206ZZ	6306	6308	6309	6310	6312	6313	6313	6314	6318	6318	6318	NA	
	4, 6, 8 Pole	6204ZZ	6205ZZ	6206ZZ	6306	6308	6309	6310	6312	6313	6315	6317	NU318	NU324	NU326	NU328	
NDE Bearing	2 Pole	6204ZZ	6205ZZ	6206ZZ	6306	6308	6309	6310	6312	6313	6313	6314	6316	6318	6318	6318	
	4, 6, 8 Pole	6204ZZ	6205ZZ	6206ZZ	6306	6308	6309	6310	6312	6313	6313	6314	6316	6324	6326	6326	
Bearing Clearance	C3																
Re-greasing	Sealed Bearing			Grease Nipples both ends													
Lubrication Material	High Quality Lithium based Grease Compatible to Shell Alvania R3																
Shaft	Material	High Quality Steel															
	Locking Clamp	N/A								Standard							
	Sealing Arrangement	V-ring Labyrinth Seal Arrangement															
Duty	S1 (Continuous)																
Vibration	Grade A per IEC 60034-14																
Vibration Adaptor (Suit Mepa 10)	Optional								Standard								
Noise	Compliant to IEC 60034.9																
Balance	Half Key, G1																
Nameplate	Stainless Steel																
Paint Specification	2-pack Epoxy, 100µm Minimum DFT																
Paint Colour (Std)	RAL 2008 (Bright Red Orange)																

For more information please contact us on **1300 888 853** or [salesAUvic@regalbeloit.com](mailto:salesAUvic@regalbeloit.com)  
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**Creating a better tomorrow™ ...**



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Frame	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450	
<b>ELECTRICAL FEATURES</b>																
Number of Poles	2, 4, 6 or 8 Pole															
Design	Design N per IEC 60034-12															
Voltage	80-100 frame 380-415V (Star) as Standard, 112+ frame 380-415 V (Delta) as Standard; available in 380V or 400V (50 Hz), 440V or 460V (60 Hz)															
Frequency	50 Hz (Standard), 60 Hz (Optional)															
Efficiency Level	IE2 (IEC 60034-30) or MEPS (Table B2) per AS 1359.5															
Winding	Type	Random Wound														
	Material	Copper														
	Impregnation	VPI														
	Insulation Class	H														
	Temperature Rise	80°K														
Design Life	> 20 years															
Rotor	Squirrel Cage, Aluminium Die Cast															
Main Terminal Box	Gland Entry	1 x M20 x 1.5	1 x M25 x 1.5	1 x M50 x 1.5	1 x M63 x 1.5 (Gland Plate)	Blank Gland Plate										
	Block	6 Stud Type														
	Material	Cast Iron, Diagonally Split														
Auxiliaries	PTC Thermistors	In Main Terminal Box				In Auxilliary Terminal Box										
		1 x 145°C PTC per phase														
	Heaters	Optional In Auxilliary Terminal Box							Standard In Auxilliary Terminal Box							
		Standard 220-250 V (380-440 V Optional)														
	RTD's (Winding)	N/A				Optional In Auxilliary Terminal Box					Standard In Auxilliary Terminal Box					
RTD's (Bearing)	N/A				Optional In Auxilliary Terminal Box											
RTD's	1 x PT100 (3-wire) per phase or per Bearing															
Auxilliary Terminal Box	Material	Cast Iron, Diagonally Split														
Ambient Temperature	-10°C to +40°C, others available upon Confirmation															
Altitude	1,000 m.a.s.l.; others available upon Confirmation															
<b>OTHER FEATURES</b>																
Warranty	3 Years															
Optional Voltages	up to 1,100 Volts															
Optional Frequencies	up to 120 Hz, subject to confirmation															
	Ex e (PPAE)	Group II, Temperature Class T3, 50°C Ambient Temp														
	Ex nA (PPAN)	Group II, Temperature Class T3, 60°C Ambient Temp														
	Ex t (PPAD)	Zone 21, Max Surface Temperature T135°C, 50°C Ambient Temp														
	Certification	IECEx BAS 14.0008X (Ex e &/or Ex t) & IECEx BAS 14.0017X (Ex nA &/or Ex t)														
Other Options and Add-on's	As per PPA Catalogue and special requests subject to Confirmation															

### APPLICATION CONSIDERATIONS

The proper selection and application of motors 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 Australia Pty Ltd and its affiliates 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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