

marathon®

marathon®  
Motors



# TerraMAX® TCM 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 and IEC 60072															
Cooling Method		TEFC (IC 411)															
Degree of Protection (IP Rating)		IP66															
Motor Frame Material		Cast Iron															
End Shields Material		Cast Iron															
Fan Material		80-355 frame Cast Iron as standard. 400-450 frame Metal Fans															
Fan Cowl Construction and Material		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.															
Drains		Sintered Bronze Drain Plug															
DE Bearing	2 Pole	6204ZZ	6205ZZ	6206ZZ	6306ZZ	6308	6309	6311	6312	6313	6314	6314	6316	6319	6318	6320	
	4, 6, 8 Pole	6204ZZ	6205ZZ	6206ZZ	6306ZZ	6308	6309	6311	6312	6313	NU316	NU317	NU319	NU324	NU326	NU328	
NDE Bearing	2 Pole	6204ZZ	6205ZZ	6206ZZ	6206	6208	6209	6211	6212	6213	6314	6314	6316	6317	6317	6320	
	4, 6, 8 Pole	6204ZZ	6205ZZ	6206ZZ	6206	6208	6209	6211	6212	6213	6314	6317	6319	6322	6326	6328	
Bearing Clearance		C3															
Re-greasing		Sealed Bearing					Grease Nipples both ends										
Lubrication Material		Mobil Polyrex EM or equivalent compatible															
Shaft	Material	High Quality Steel															
	Locking Clamp	N/A							Standard								
	Sealing Arrangement	Labyrinth Gamma Seal Arrangement															
Duty		S1 (Continuous)															
Vibration		Grade A per IEC 60034-14															
Vibration Studs		Optional															
Noise		Compliant to IEC 60034-9															
Balance		Half Key, Standard - G2.5															
Nameplate		Stainless Steel															
Paint Specification		2-pack Epoxy paint, 120µm 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)  
[www.RegalBeloit.com](http://www.RegalBeloit.com) / [www.regalaustralia.com](http://www.regalaustralia.com)  
**Creating a better tomorrow™...**



# TerraMAX<sup>®</sup> TCM MOTOR

## SPECIFICATIONS

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 - 415V (Delta) as standard. Other voltages available upon request														
Frequency	50 Hz (Standard), 60 Hz (Optional)														
Efficiency Level	IEC 60034-30-1, 2014 or MEPS (Table A3) 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	2 x M20 x 1.5	2 x M25 x 1.5	2 x M32 x 1.5	2 x M40 x 1.5	2 x M50 x 1.5	2 x M63 x 1.5	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 150°C PTC per phase													
	Heaters	Optional In Auxilliary Terminal Box													
		Standard 220-250 V (380-440 V Optional)													
	RTD's (Winding)	N/A					Optional In Auxiliary Terminal Box								
	RTD's (Bearing)	N/A					Optional In Auxiliary Terminal Box								
RTD's	1 x PT100 (3-wire) per phase and 1 x PT100 (3-wire) per Bearing														
Auxiliary 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														
Other Options and Add-on's	As per TCM 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.

For a copy of our Standard Terms and Conditions of Sale, Disclaimers of Warranty and Limitation of Liability, please contact Customer Service at 1300 888 853 or visit [www.regalaustralia.com.au](http://www.regalaustralia.com.au). These terms and conditions of sale, disclaimers and limitations of liability apply to any person who may buy, acquire or use a Regal Beloit Australia Pty Ltd product referred to herein, including any person who buys from a licensed distributor of these branded products.

Regal, Marathon and Marathon Motors are trademarks of Regal Beloit Australia Pty Ltd or one of its affiliated companies.

©2018, 2018 Regal Beloit Australia Pty Ltd, All Rights Reserved. MCSSP18055E • r1 • Created in AU

