PRODUCT INFORMATION PACKET

marathon®

Model No: TCA0454A3121GACD01 Catalog No: TCA0454A3121GACD01 TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 280M Frame



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marathon

Nameplate Specifications

Phase	3	Output HP	60 Hp
Output KW	45.0 kW	Voltage	415 V
Speed	742 r/min	Service Factor	1
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	nermal Protection No Protection Efficiency		92.2 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	87.1 A	Power Factor	0.78
Duty	S 1	Insulation Class	F
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	B5	Motor Orientation	Horizontal	
Drive End Bearing	С3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1111 mm	Frame Length	600 mm	
Shaft Diameter	75 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0228000591	

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOM	ENTRIC TOLE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017



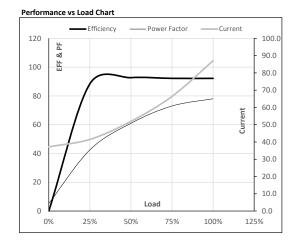




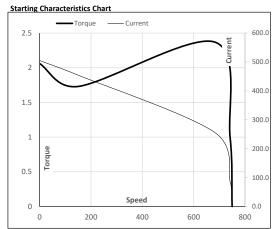
Model No. TCA0454A3121GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	45	60.0	87.1	742	58.76	576.25	IE3	50	S1	1000	3.5326	791

Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	Α	37.2	41.5	51.9	66.4	87.1							
Torque	Nm	0.0	142.9	286.5	430.9	576.3							
Speed	r/min	750	748	746	744	742							
Efficiency	%	0.0	88.4	92.7	92.2	92.2							
Power Factor	%	5.2	42.5	61.0	73.0	78.0							



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 150 683 0 742 750 Speed r/min 37.2 Current Α 504.9 454.4 256.1 87.1 Torque pu



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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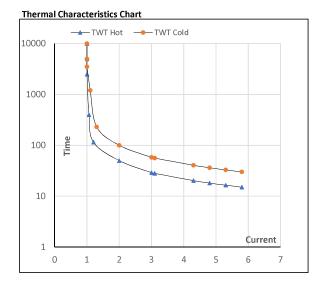




Model No. TCA0454A3121GACD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	45	60	87.1	742	58.72	576.25	IE3	50	S1	1000	3.5326	791

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 58 50 34 31 30 Current 1 3 5 5.5 5.8 pu



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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