### PRODUCT INFORMATION PACKET

# marathon®

Model No: TCA0554A3131GACD01 Catalog No: TCA0554A3131GACD01 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 315S Frame



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## marathon

### Nameplate Specifications

Phase	ase 3		75 Hp
Output KW	55.0 kW	Voltage	415 V
Speed	peed 742 r/min		1
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.5 %
Ambient Temperature 50 °C		Frequency	50 Hz
Current	113.3 A	Power Factor	0.73
Duty	S1	Insulation Class	F
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500891

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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



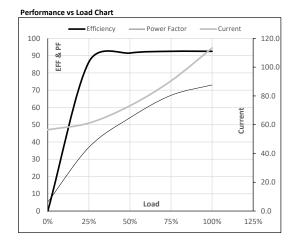




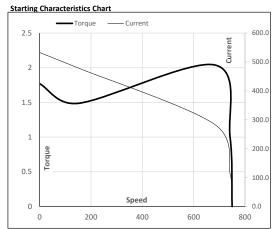
#### Model No. TCA0554A3131GACD01

	$\Delta / Y$		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 <sup>2</sup> ]	[kg]
TEFC 415	5 Δ	50	55	75.0	113.3	742	73.42	720.05	IE3	50	S1	1000	3.7895	912

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	56.5	61.1	73.2	90.4	113.3	
Torque	Nm	0.0	178.7	358.1	538.5	720.0	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	86.3	91.5	92.5	92.5	
Power Factor	%	5.2	36.9	54.0	67.0	73.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 150 683 742 750 Speed r/min Current Α 532.6 479.3 283.7 113.3 56.5 Torque pu



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

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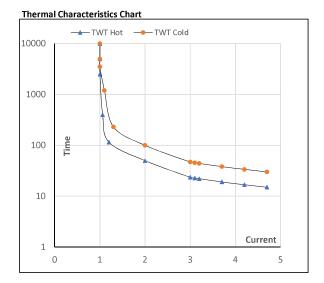




#### Model No. TCA0554A3131GACD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	55	75	113.3	742	73.37	720.05	IE3	50	S1	1000	3.7895	912

#### Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 47 42 37 31 30 4.7 Current 1 3 3.5 4.5 pu



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

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