

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: TCA1504A3113GACD01  
Catalog No: TCA1504A3113GACD01  
TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 415 V, 355M Frame



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**RegalRexnord**

### Nameplate Specifications

Phase	3	Output HP	200 Hp
Output KW	150.0 kW	Voltage	415 V
Speed	742 r/min	Service Factor	1
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.2 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	266.9 A	Power Factor	0.83
Duty	S1	Insulation Class	F
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
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	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0235502296

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DRAWING REVISION C	REVISION BY LK	DATE 07/09/2020
ECO CR-0000087	APPROVED BY JAY	DATE 07/09/2020
ECO DESCRIPTION MODEL UPDATED		
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DRAWN BY SKM	<b>marathon™</b> Motors	
DATE 11/08/2017		
APPROVED BY JAY	DESCRIPTION OUTLINE 355L-4~8P-B3	
DATE 11/08/2017	MATERIAL	PROCESS/FINISH
REFERENCE		
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0235502296
		SHEET 1 OF 1

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DRAWING REVISION <b>A</b>	REVISION BY <b>SN</b>	DATE <b>13/01/2017</b>
ECO <b>ECO-0116390</b>	APPROVED BY <b>SBD</b>	DATE <b>13/01/2017</b>
ECO DESCRIPTION <b>NEW DRAWING RELEASE</b>		

GEOMETRIC TOLERANCE		
LINEAR DIM	>0~6	±0.1
	>6~30	±0.2
	>30~120	±0.3



# NOTES:

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

8WD.442.2017

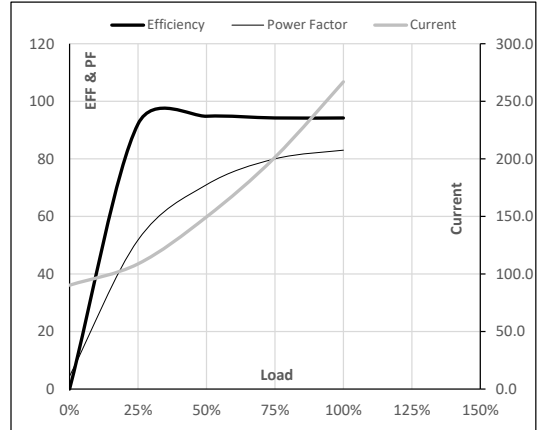
	DRAWN BY <b>SN</b>	Regal Beloit America, Inc.		
	DATE <b>16/12/2016</b>			
	APPROVED BY <b>SBD</b>	<b>DESCRIPTION</b> <b>CONN DIAGRAM-NAMEPLATE</b>		
	DATE <b>16/12/2016</b>			
	REFERENCE	MATERIAL	PROCESS/FINISH	
	THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>8442000085</b>	SHEET <b>1 OF 1</b>

**Model No.** TCA1504A3113GACD01

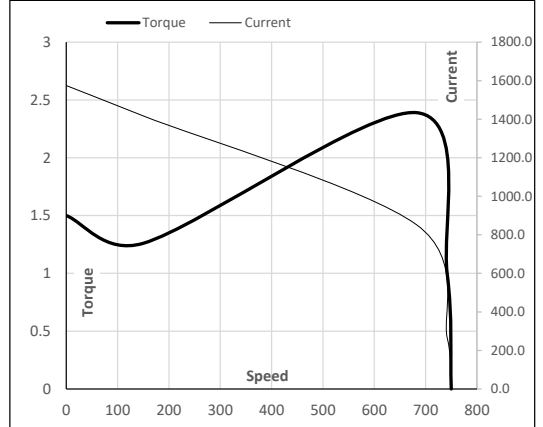
Enclosure	U (V)	Δ / Y Conn	f (Hz)	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	415	Δ	50	150	200.0	266.9	742	195.77	1919.84	IE3	50	S1	1000	9.9098	1731

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	90.2	108.7	149.5	201.3	266.9	
Torque	Nm	0.0	476.2	954.6	1435.7	1919.8	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	92.1	94.8	94.2	94.2	
Power Factor	%	4.5	51.8	71.0	80.0	83.0	

**Performance vs Load Chart**

**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	683	742	750
Current	A	1574.8	1417.3	852.0	266.9	90.2
Torque	pu	1.5	1.3	2.4	1	0

**Starting Characteristics Chart**

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

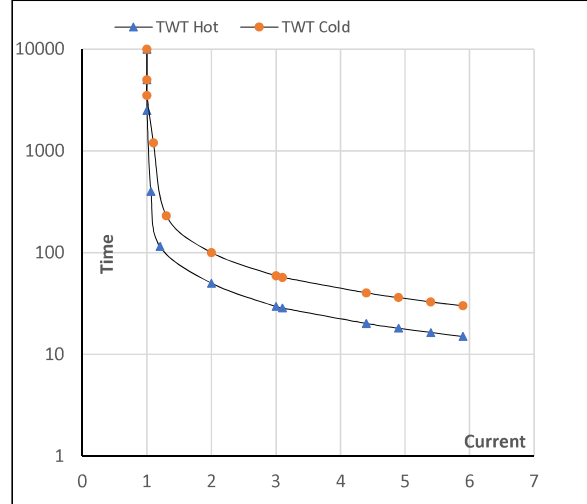
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**TerraMAX®**
**Model No.** TCA1504A3113GACD01

Enclosure	U (V)	$\Delta / Y$ Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [rpm]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	415	$\Delta$	50	150	200	266.9	742	195.63	1919.84	IE3	50	S1	1000	9.9098	1731

**Motor Speed Torque Data**

Load	FL	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	LR
TWT Hot	s 10000	50	30	25	18	16	15
TWT Cold	s 10000	100	59	50	35	31	30
Current	pu	1	2	3	4	5	5.5

**Thermal Characteristics Chart**

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

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