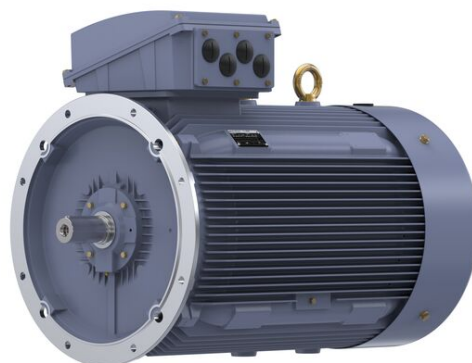


PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: TCA2501A3121GACD01
Catalog No: TCA2501A3121GACD01
TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 415 V, 355M Frame



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	335 Hp
Output KW	250.0 kW	Voltage	415 V
Speed	2984 r/min	Service Factor	1
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.8 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	412.6 A	Power Factor	0.88
Duty	S1	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	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1512 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Top		
Connection Drawing	8442000085	Outline Drawing	0235501826

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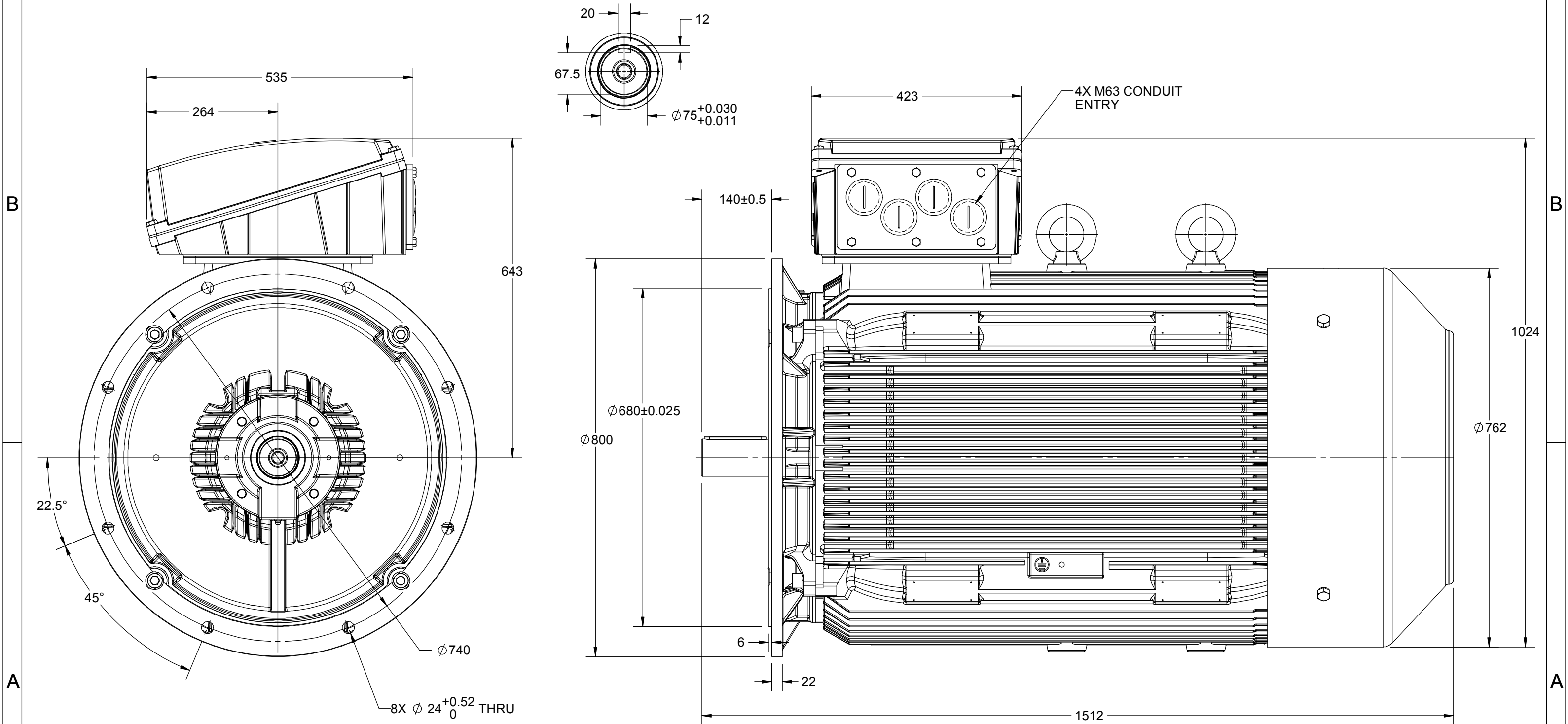
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OUTLINE



DRAWING REVISION B	REVISION BY NIV	DATE 09/05/2019		DRAWN BY JOY	<div>marathon™ Motors</div>		
ECO ECO-0165600	APPROVED BY SR	DATE 09/05/2019		DATE 18/07/2014			
ECO DESCRIPTION				APPROVED BY SBD	DESCRIPTION		
MODEL UPDATED				DATE 18/07/2014	OUTLINE		
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				THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0235501826	SHEET 1 OF 1
				355FR-2P-B5 MTG. MOTOR TYPE: TCA			

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

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

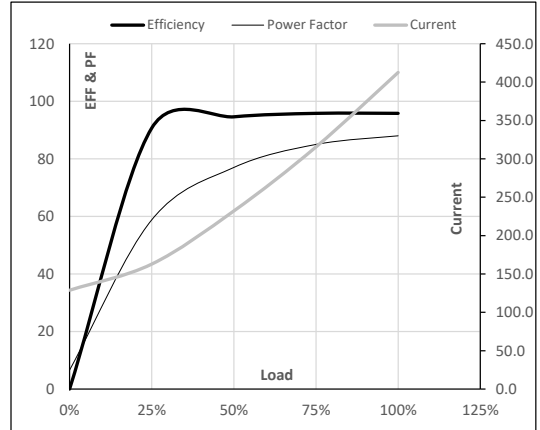
	DRAWN BY SN	Regal Beloit America, Inc.		
	DATE 16/12/2016			
	APPROVED BY SBD	DESCRIPTION CONN DIAGRAM-NAMEPLATE		
	DATE 16/12/2016			
	REFERENCE	MATERIAL	PROCESS/FINISH	
	THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER 8442000085	SHEET 1 OF 1

Model No. TCA2501A3121GACD01

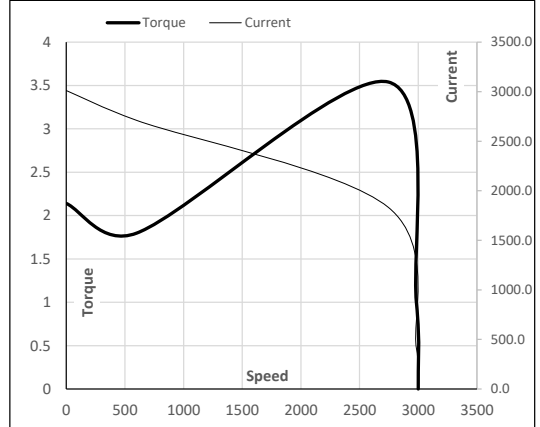
Enclosure	U (V)	Δ / Y Conn	f (Hz)	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	415	Δ	50	250	335.0	412.6	2984	81.51	799.36	IE3	50	S1	1000	4.0729	1710

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	128.8	162.8	232.1	315.5	412.6	
Torque	Nm	0.0	199.1	398.6	598.7	799.4	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	90.7	94.6	95.8	95.8	
Power Factor	%	6.6	58.8	77.0	85.0	88.0	

Performance vs Load Chart

Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2745	2984	3000
Current	A	3011.7	2710.6	1832.6	412.6	128.8
Torque	pu	2.1	1.8	3.5	1	0

Starting Characteristics Chart

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

 Issued By
Issued Date



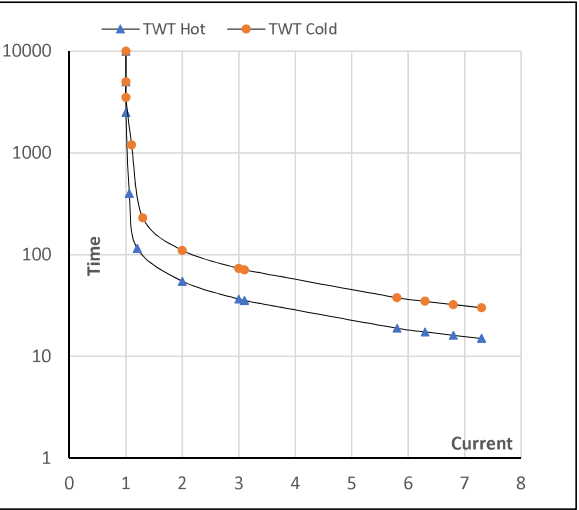
Model No. TCA2501A3121GACD01

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 ²]	Weight [kg]
TEFC	415	Δ	50	250	335	412.6	2984	81.46	799.36	IE3	50	S1	1000	4.0729	1710

Motor Speed Torque Data

Load		FL	I ₁	I ₂	I ₃	I ₄	I ₅	LR
TWT Hot	s	10000	55	37	30	25	20	15
TWT Cold	s	10000	110	73	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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