PRODUCT INFORMATION PACKET

Model No: TCA1321A3121GACD01 Catalog No: TCA1321A3121GACD01 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 315M Frame



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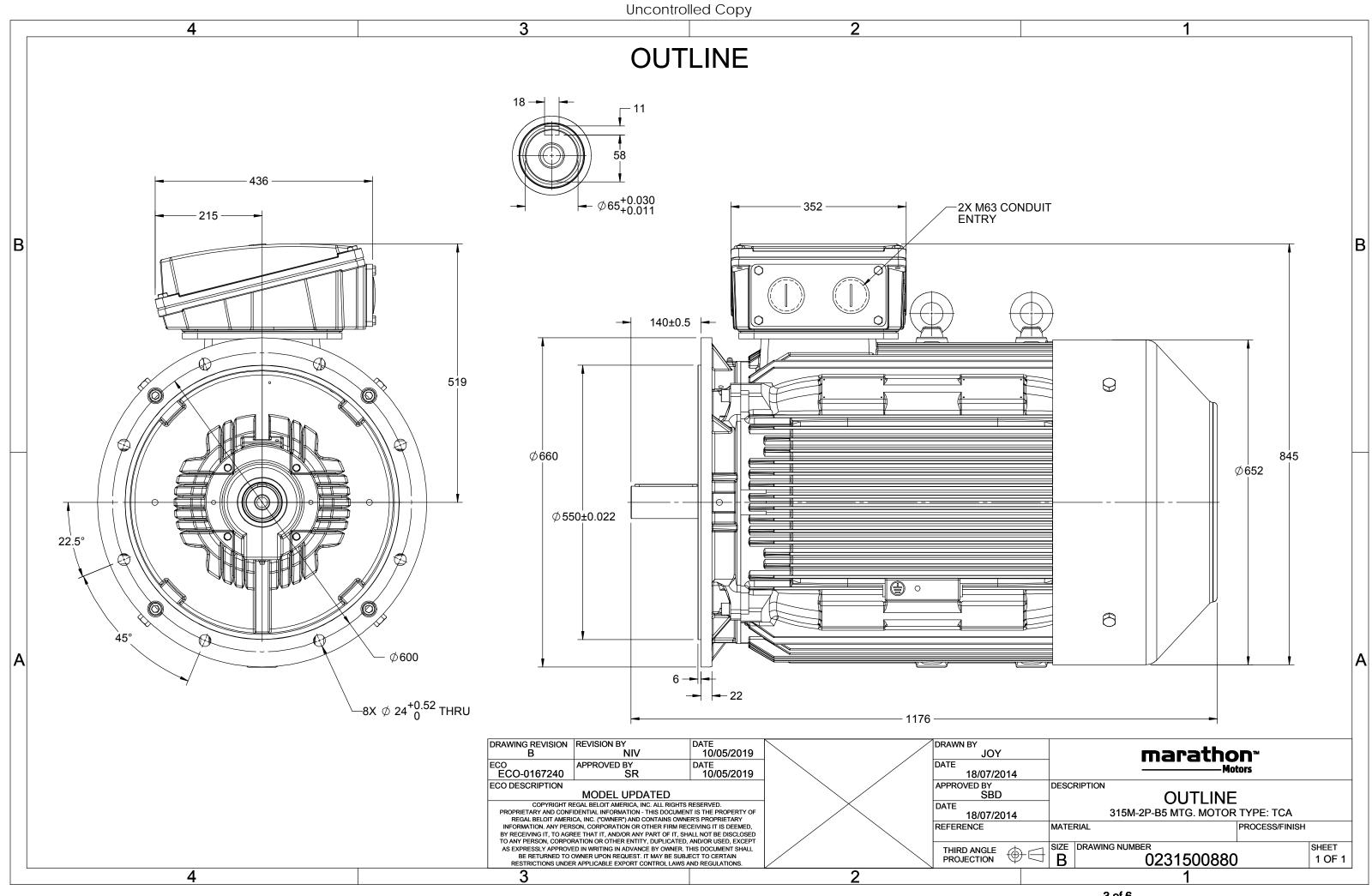
Nameplate Specifications

Phase	3	Output HP	175 Hp		
Output KW	132.0 kW	Voltage	415 V		
Speed	2984 r/min	Service Factor	1		
Frame	315M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	95.4 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	216.3 A	Power Factor	0.89		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316		
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	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500880

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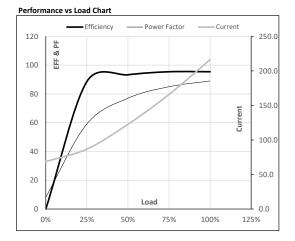


Model No. TCA1321A3121GACD01

Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	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	132	175.0	216.3	2984	42.58	417.55	IE3	50	S1	1000	2.5544	1067

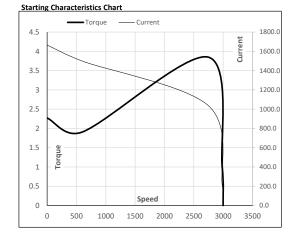
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	68.7	86.7	122.7	165.9	216.3	
Nm	0.0	104.0	208.2	312.7	417.6	
r/min	3000	2996	2992	2988	2984	
%	0.0	88.6	93.3	95.4	95.4	
%	8.2	59.1	77.0	85.0	89.0	
	Nm r/min %	A 68.7 Nm 0.0 r/min 3000 % 0.0	A 68.7 86.7 Nm 0.0 104.0 r/min 3000 2996 % 0.0 88.6	A 68.7 86.7 122.7 Nm 0.0 104.0 208.2 r/min 3000 2996 2992 % 0.0 88.6 93.3	A 68.7 86.7 122.7 165.9 Nm 0.0 104.0 208.2 312.7 r/min 3000 2996 2992 2988 % 0.0 88.6 93.3 95.4	A 68.7 86.7 122.7 165.9 216.3 Nm 0.0 104.0 208.2 312.7 417.6 r/min 3000 2996 2992 2988 2984 % 0.0 88.6 93.3 95.4 95.4



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2745	2984	3000	
Current	А	1665.4	1498.9	1037.9	216.3	68.7	
Torque	ри	2.3	1.9	3.9	1	0	



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

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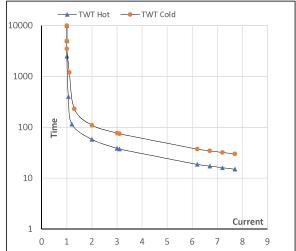
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	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	132	175	216.3	2984	42.55	417.55	IE3	50	S1	1000	2.5544	1067

Motor Speed Torque Data

WOLDI Speed	u rory	ue Dala						
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	58	39	35	25	20	15
TWT Cold	s	10000	110	77	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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