PRODUCT INFORMATION PACKET



Model No: TCA0904A3111GACD01 Catalog No: TCA0904A3111GACD01 TerraMAX® Cast Iron Motor, 120 HP, 3 Ph, 50 Hz, 415 V, 315L Frame



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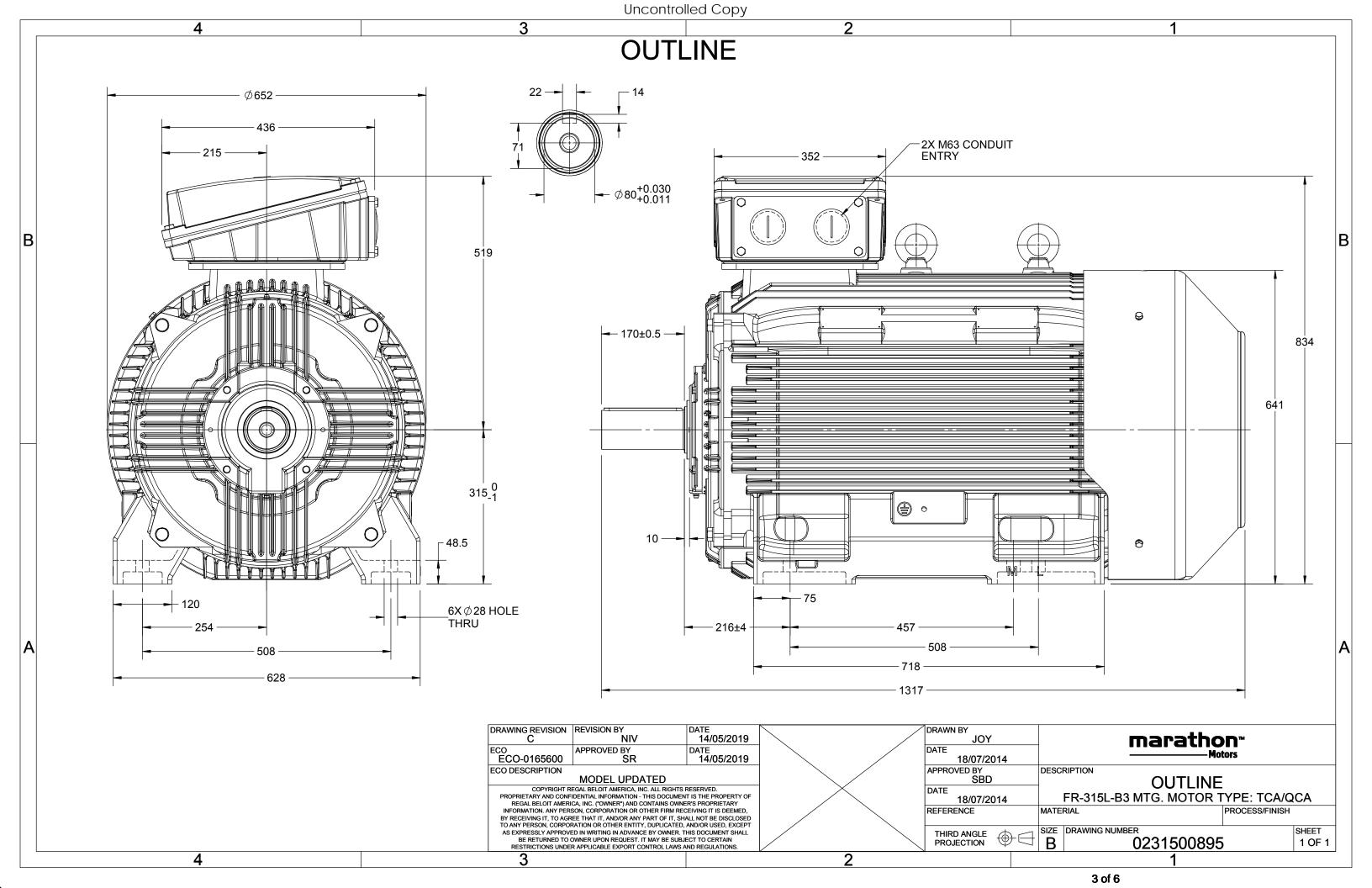
Nameplate Specifications

Phase	3	Output HP	120 Hp
Output KW	90.0 kW	Voltage	415 V
Speed	743 r/min	Service Factor	1
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.4 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	183.6 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	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500895

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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	GEOMENTRIC TOLERANCE							
	>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



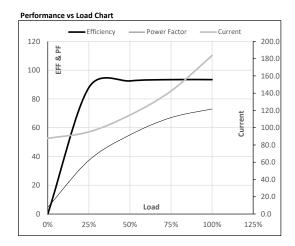




Model No. TCA0904A3111GACD01

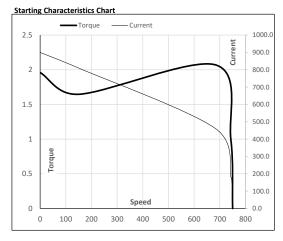
Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	90	120.0	183.6	743	117.40	1151.34	IE3	50	S1	1000	5.6618	909.0

Motor Load D	Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL							
Current	Α	87.7	95.1	114.6	142.5	183.6								
Torque	Nm	0.0	285.8	572.8	861.2	1151.3								
Speed	r/min	750	748	747	745	743								
Efficiency	%	0.0	87.9	92.5	93.4	93.4								
Power Factor	%	4.6	37.3	55.0	67.0	73.0								



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	684	743	750	
Current	Α	899.9	809.9	460.7	183.6	87.7	
Torque	nu	2.0	1.6	2.1	1	0	



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

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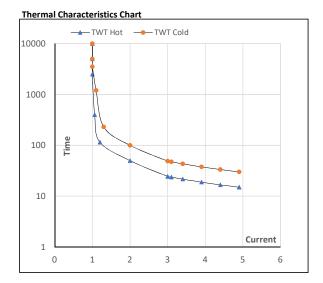




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	90	120	183.6	743	117.32	1151.34	IE3	50	S1	1000	5.6618	909

Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR				
TWT Hot	S	10000	50	25	21	18	16	15				
TWT Cold	S	10000	100	49	42	37	31	30				
Current	pu	1	2	3	3.5	4	4.5	4.9				



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

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