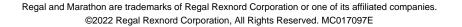
PRODUCT INFORMATION PACKET



Model No: TCA2001A3121GACD01 Catalog No: TCA2001A3121GACD01 Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC







Product Information Packet: Model No: TCA2001A3121GACD01, Catalog No:TCA2001A3121GACD01 Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC



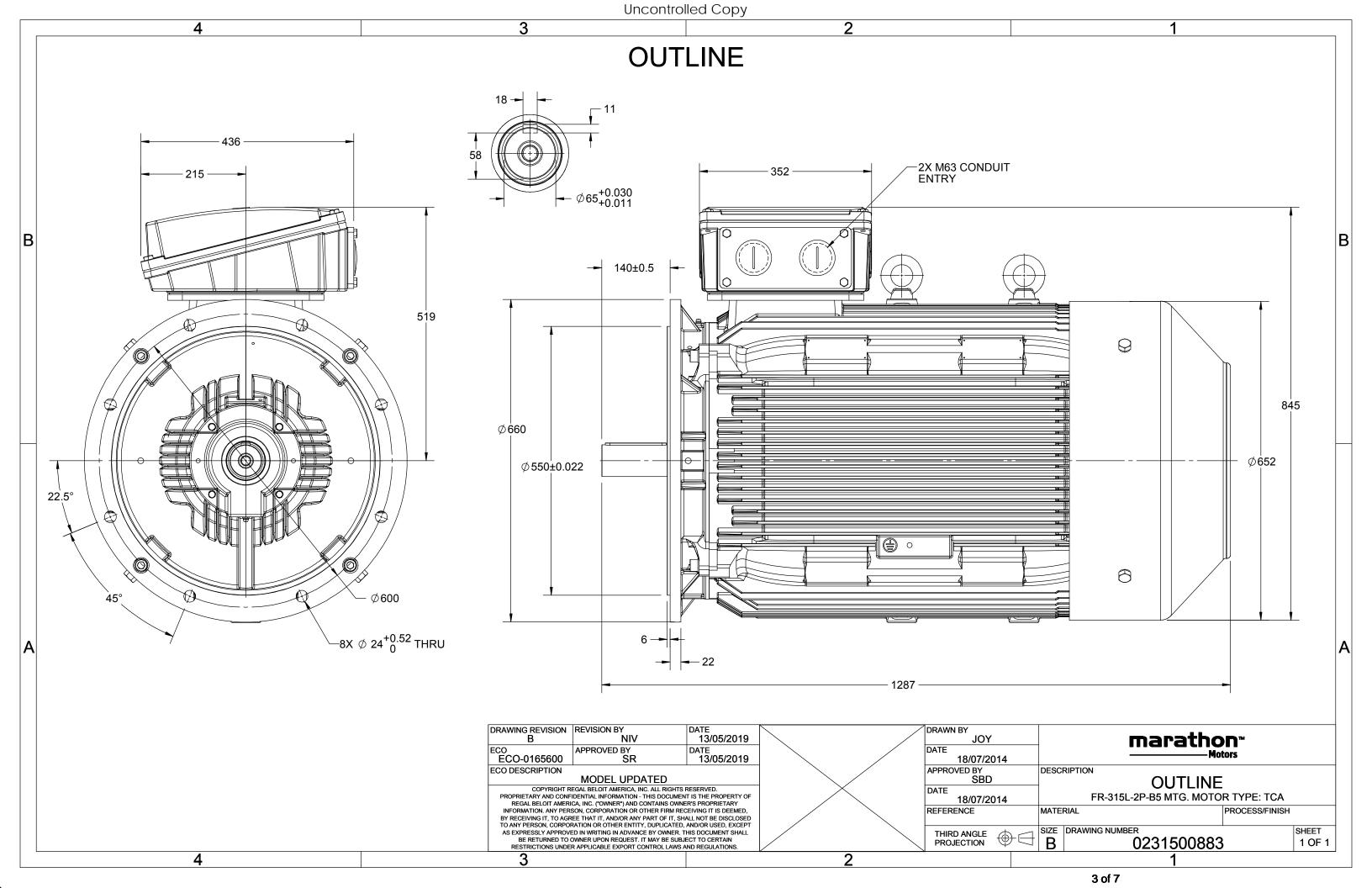
Nameplate Specifications

Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	415 V
Current	326.4 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	S 1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
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	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1287 mm	Frame Length	840 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500883	Connection Drawing	8442000085

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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

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





TerraMAX[®]

Model No. TCA2001A3121GACD01

U	Δ/Υ	f	Р	Р	I	n	T	IE % EFF atload PF atload			% EFF at load			ad	I _A /I _N	T_A/T_N	T _K /T _N	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Δ	50	200	270	326.3	2984	644.22	IE3		95.8	95.8	94.7	0.89	0.87	0.79	7.7	2.4	3.7

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resist	ance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6316 C3 / 6316 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	1262	kg
Gross weight - approx.	1307	kg
Motor inertia	3.2219	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	tor) 83	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 240mm ² /2 x M63 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1 $\,$

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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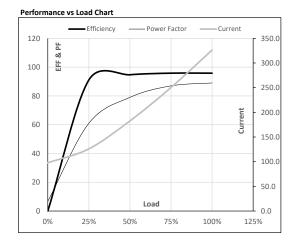




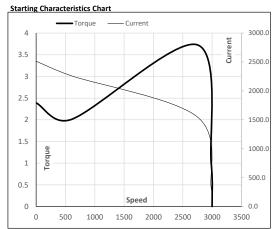
Model No. TCA2001A3121GACD01

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	200	270.0	326.3	2984	65.69	644.22	IE3	50	S1	1000	3.2219	1262

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	97.7	126.0	182.7	250.4	326.3	
Torque	Nm	0.0	160.4	321.3	482.5	644.2	
Speed	r/min	3000	2996	2992	2989	2984	
Efficiency	%	0.0	91.1	94.7	95.8	95.8	
Power Factor	%	6.7	61.0	79.0	87.0	89.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2745 2984 3000 r/min Speed A 2512.9 2261.6 1552.5 Current 326.3 97.7 Torque pu



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

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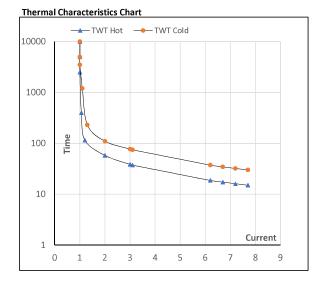




Model No. TCA2001A3121GACD01

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	200	270	326.3	2984	65.65	644.22	IE3	50	S1	1000	3.2219	1262

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 25 TWT Cold s 10000 110 77 60 45 40 30 Current 1 3 5 5.5 7.7 pu



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

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