PRODUCT INFORMATION PACKET



Model No: SCA2001A3111GAAD01 Catalog No: SCA2001A3111GAAD01

TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC





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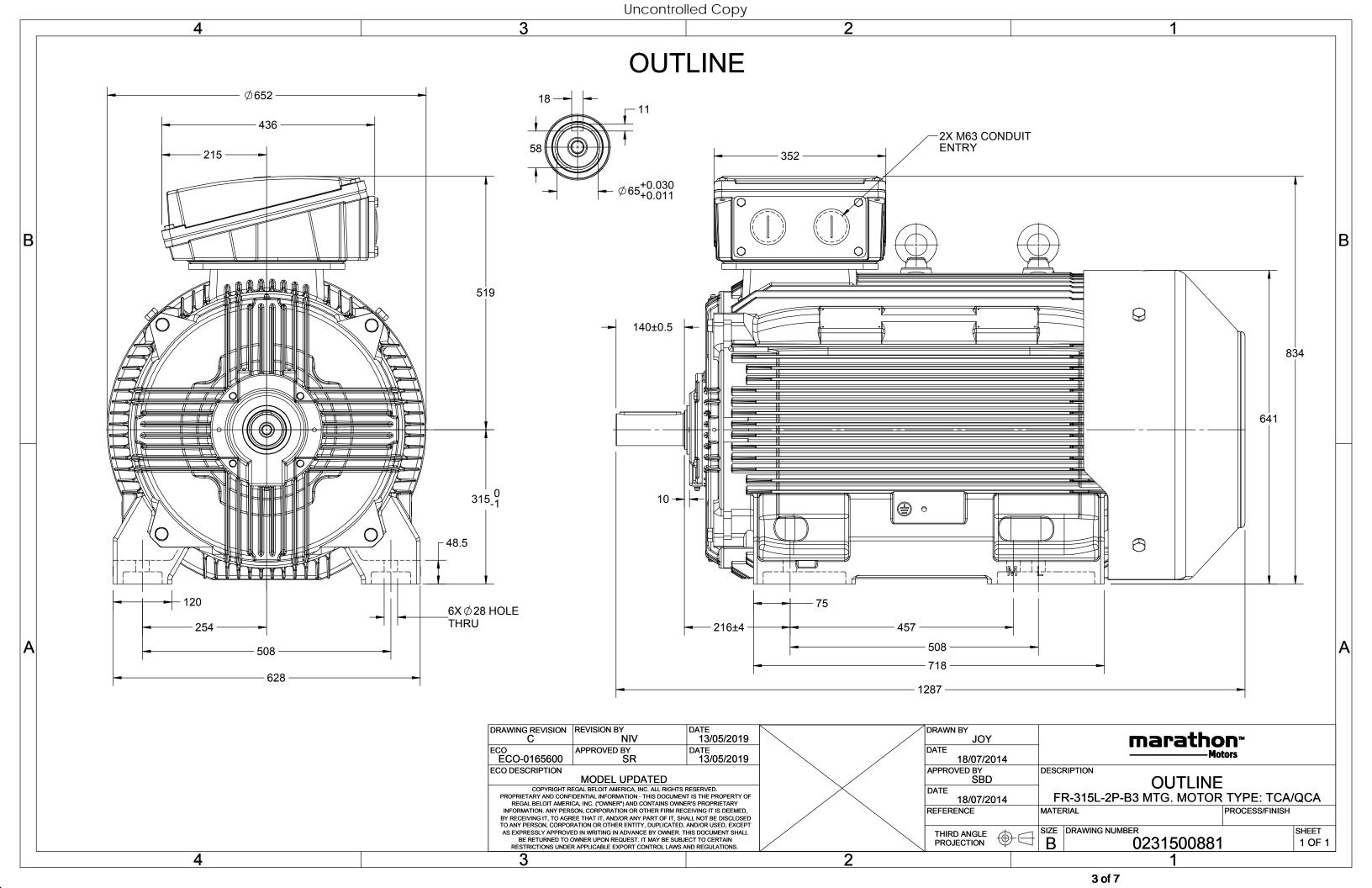
Nameplate Specifications

270 Hp	Output KW	200.0 kW
50 Hz	Voltage	415 V
319.2 A	Speed	2979 rpm
1	Phase	3
95 %	Power Factor	0.92
S1	Insulation Class	F
315L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	50 °C
6316	Opp Drive End Bearing Size	6316
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 319.2 A 1 95 % S1 315L No Protection 6316 No	50 HzVoltage319.2 ASpeed1Phase95 %Power FactorS1Insulation Class315LEnclosureNo ProtectionAmbient Temperature6316Opp Drive End Bearing SizeNoCSAYesIP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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	TOP		
Connection Drawing	8442000085	Outline Drawing	0231500881

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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







Model No. SCA2001A3111GAAD01

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load		PF	at lo	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	318.4	2979	645.36	IE2	-	95	95	94.6	0.91	0.90	0.84	6.0	1.8	2.7

Motor type	SCA	
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	
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 B3	
Cooling method	IC 411	
Motor weight - approx.	1224	kg
Gross weight - approx.	1269	kg
Motor inertia	3.0257	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 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)	18/36	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 240mm²/2 x M63 x 1.5	
Auxiliary terminal box	Available on Request	

 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 combined 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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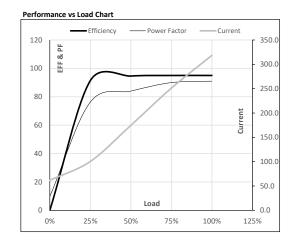




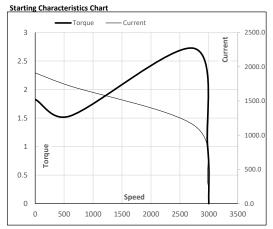
Model No. SCA2001A3111GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	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	318.4	2979	65.81	645.36	IE2	50	S1	1000	3.0257	1224

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	61.7	100.4	174.6	251.1	318.4	
Torque	Nm	0.0	160.5	321.5	483.1	645.4	
Speed	r/min	3000	2995	2990	2985	2979	
Efficiency	%	0.0	91.4	94.6	95.0	95.0	
Power Factor	%	9.8	76.3	84.0	90.0	91.0	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2741	2979	3000	
Current	Α	1910.1	1719.1	1146.4	318.4	61.7	
Torque	pu	1.8	1.5	2.7	1	0	



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

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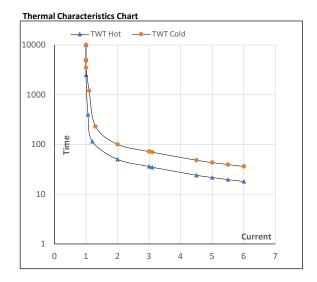




Model No. SCA2001A3111GAAD01

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-m ²]	[kg]
TEFC	415	Δ	50	200	270	318.4	2979	65.80	645.30	IE2	50	S1	1000	3.0257	1224

Motor Speed Torque Data Load LR TWT Hot s 10000 50 36 30 20 18 TWT Cold s 10000 100 72 60 43 39 36 5.5 6___ Current pu 1 2 4



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

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