PRODUCT INFORMATION PACKET



Model No: SCA1504A3111GAAD01 Catalog No: SCA1504A3111GAAD01

TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355M Frame, TEFC





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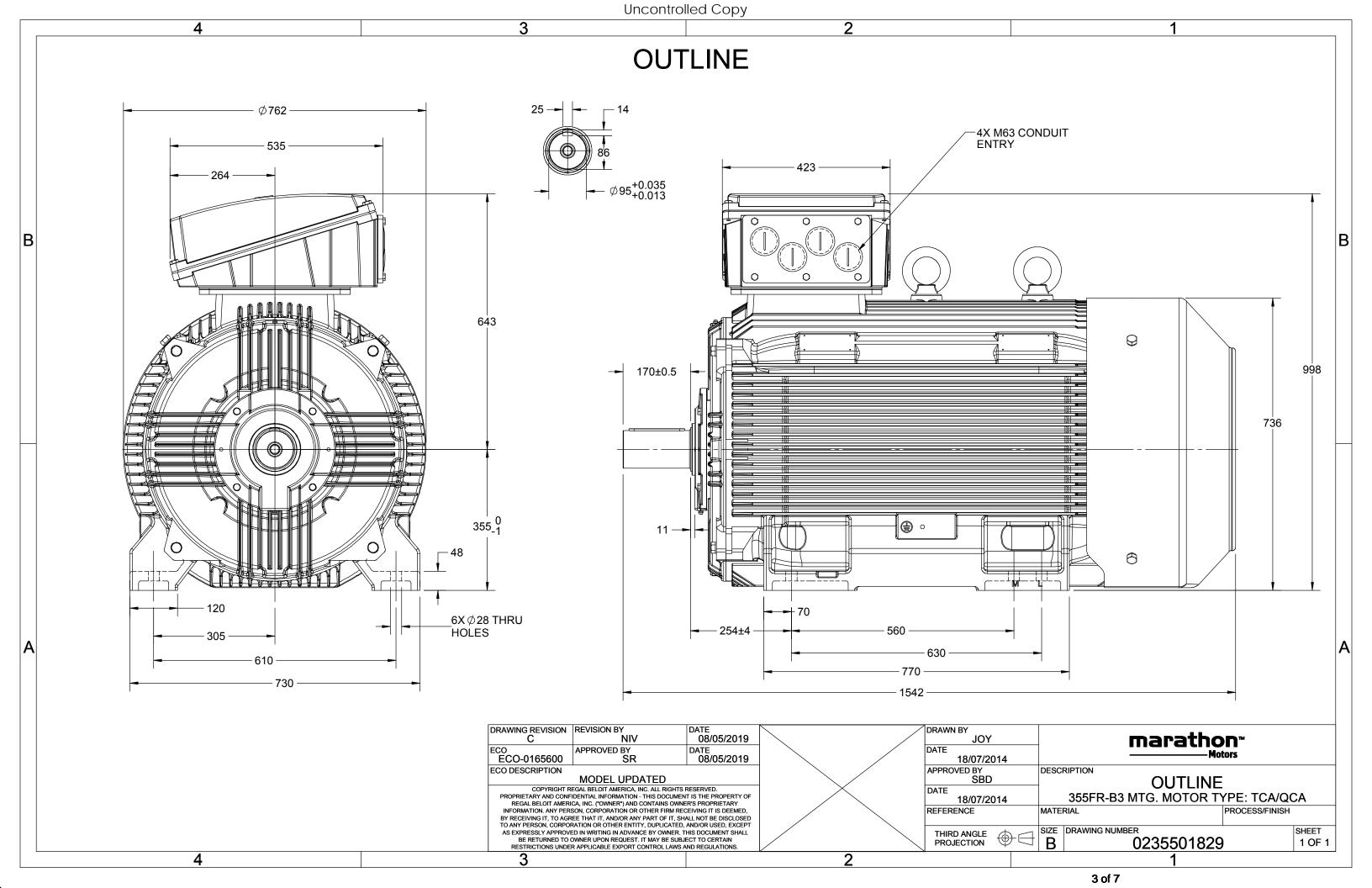
Nameplate Specifications

Output HP	200 Hp	Output KW	150.0 kW
Frequency	50 Hz	Voltage	415 V
Current	273.7 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	92.9 %	Power Factor	0.8207
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	TOP			
Outline Drawing	0235501829	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







Model No. SCA1504A3111GAAD01

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	% EFF a	t load	l	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	150	200	272.1	742	1919.39	IE2	-	92.9	92.9	94.6	0.83	0.79	0.69	5.5	1.5	2.4

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
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	6322 C3 / 6322 C3	
Lubrication method	Regreaseable	
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.	1728	kg
Gross weight - approx.	1773	kg
Motor inertia	9.9098	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	tor) 65	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 300mm²/4 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

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

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

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^{*} Voltage, Frequency and combined variation are as per IEC60034-1

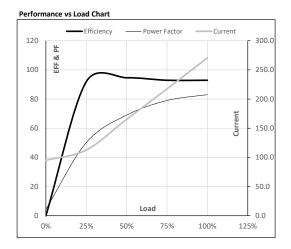




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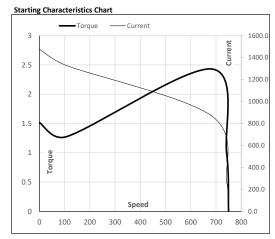
Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	150	200	270.6	742	195.72	1919.39	IE2	50	S1	1000	9.9098	1728

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	95.0	112.6	165.3	217.4	270.6	
Torque	Nm	0.0	475.1	954.6	1435.5	1919.4	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	91.9	94.6	92.9	92.9	
Power Factor	%	4.4	50.1	69.0	79.0	83.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	683	742	750	
Current	Α	1476.2	1328.6	869.4	270.6	95.0	
Torque	pu	1.5	1.3	2.4	1	0	



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

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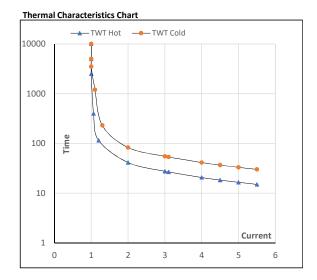




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	150	200	270.6	742	195.72	1919.39	IE2	50	S1	1000	9.9098	1728

Motor Speed Torque Data								
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	41	28	21	18	17	15
TWT Cold	S	10000	83	55	41	37	33	30
Current	pu	1	2	3	4	4.5	5	5.5



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

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