PRODUCT INFORMATION PACKET



Model No: SCA0114A3121GAAD01 Catalog No: SCA0114A3121GAAD01

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 180L Frame, TEFC





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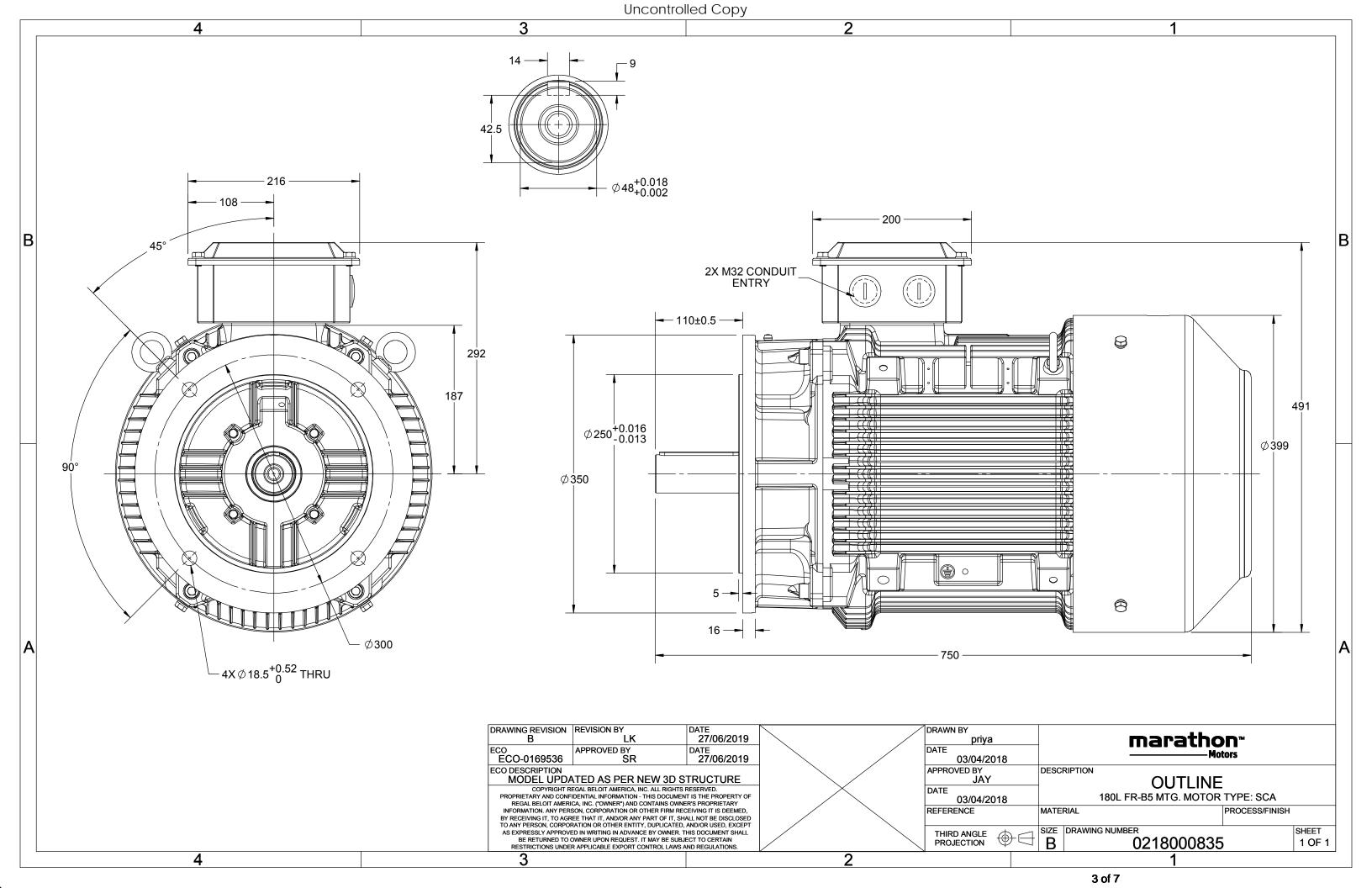
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	415 V
Current	25.2 A	Speed	723 rpm
Service Factor	1	Phase	3
Efficiency	86.9 %	Power Factor	0.6986
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
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	B5	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	750 mm	Frame Length	366 mm	
Shaft Diameter	48 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	TOP			
Outline Drawing	0218000835	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. SCA0114A3121GAAD01

U	Δ/Υ	f	Р	Р	ļ	n	T	IE	9	% EFF a	t load	ł	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	11	15	25.2	722	148.22	IE2	-	86.9	86.9	86.1	0.70	0.63	0.49	4.5	2.0	2.1

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	180L		Motor weight - approx.	247	kg
Duty	S1		Gross weight - approx.	267	kg
Voltage variation *	± 10%		Motor inertia	0.3646	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	N		Noise level (1meter distance from motor	or) 60	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +50	°C	Type of coupling	Direct	
Temperature rise (by resistance)	70 [Class B]	K	LR withstand time (hot/cold)	15/30	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6311-2Z / 6211-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	LR x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 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 discrepancies between calculated and name plate values.

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

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

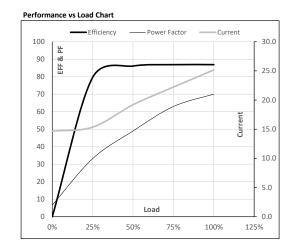




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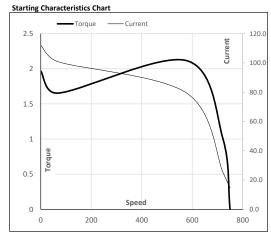
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	11	15	25.2	722	15.11	148.22	IE2	50	S1	1000	0.3646	247

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	14.7	15.4	19.2	22.2	25.2	
Torque	Nm	0.0	36.1	72.7	110.0	148.2	
Speed	r/min	750	744	738	731	722	
Efficiency	%	0.0	79.6	86.1	86.9	86.9	
Power Factor	%	6.6	33.2	49.0	63.0	70.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	578	722	750
Current	Α	112.1	100.9	79.4	25.2	14.7
Torque	pu	2.0	1.7	2.1	1	0



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

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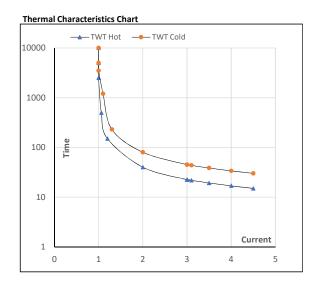




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	11	15	25.2	722	15.11	148.22	IE2	50	S1	1000	0.3646	247

Motor Speed Torque Data											
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR			
TWT Hot	S	10000	40	30	23	19	17	15			
TWT Cold	S	10000	80	65	45	39	34	30			
Current	pu	1	2	2.5	3	3.5	4	4.5			



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

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