PRODUCT INFORMATION PACKET



Model No: SCA18P2A4121GAA001 Catalog No: SCA18P2A4121GAA001

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 180M Frame, TEFC



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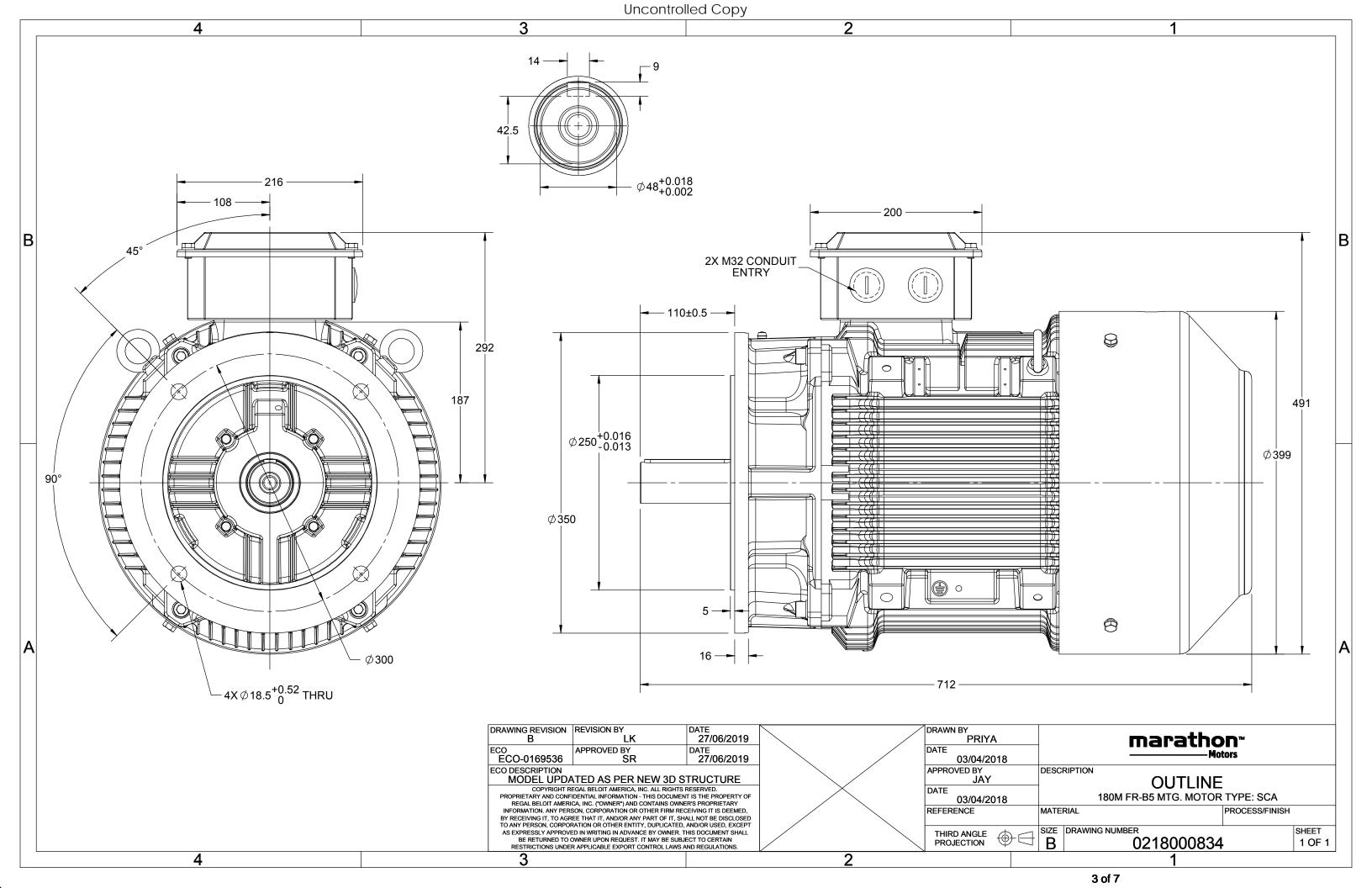
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	35.4 A	Speed	1469 rpm
Service Factor	1	Phase	3
Efficiency	91.2 %	Power Factor	0.87
Duty	S 1	Insulation Class	F
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °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	4	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	712 mm	Frame Length	328 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000834

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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	ENTRIC TOLE	RANCE
	>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.

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Model No.	SCA18P2A4121GAA001
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U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	b	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]
380/660	Δ	50	18.5	25	35.4	1469	121.22	IE2	-	91.2	91.2	91.7	0.87	0.83	0.73	6.2	2.2	2.7

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	180M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6311-2Z / 6211-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	201	kg
Gross weight - approx.	221	kg
Motor inertia	0.1433	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from motor)	66	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	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 35mm²/2 X M32 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 discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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

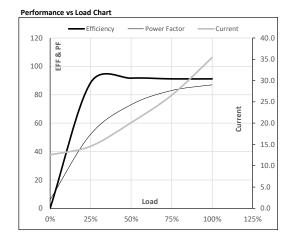




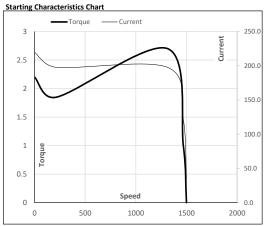
Model No. SCA18P2A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	18.5	25	35.4	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	12.5	14.6	20.1	26.6	35.4	
Torque	Nm	0.0	29.8	59.9	90.4	121.2	
Speed	r/min	1500	1493	1485	1477	1469	
Efficiency	%	0.0	88.5	91.7	91.2	91.2	
Power Factor	%	6.1	52.2	73.0	83.0	87.0	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1313	1469	1500	
Current	Α	219.6	197.6	121.3	35.4	12.5	
Torque	pu	2.2	1.8	2.7	1	0	



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

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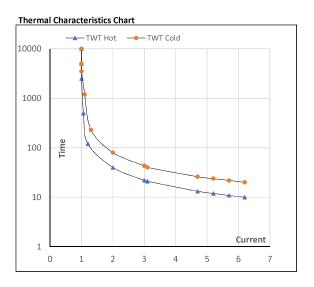




Model No. SCA18P2A4121GAA001

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	380/66	0 Δ	50	18.5	25	35.4	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

Motor Speed Torque Data										
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR		
TWT Hot	S	10000	40	22	15	12	11	10		
TWT Cold	s	10000	80	43	30	25	23	20		
Current	pu	1	2	3	4	5	5.5	6.2		



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

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