PRODUCT INFORMATION PACKET



Model No: SCA5P52A3121GAAD01 Catalog No: SCA5P52A3121GAAD01

5.5kW, General Purpose Low Voltage IEC Motor, 3 phase, 4 Pole, 415V, B3, 50Hz, 87.7%, 132S Frame, TEFC

Cast Iron IE2 Efficiency Motors





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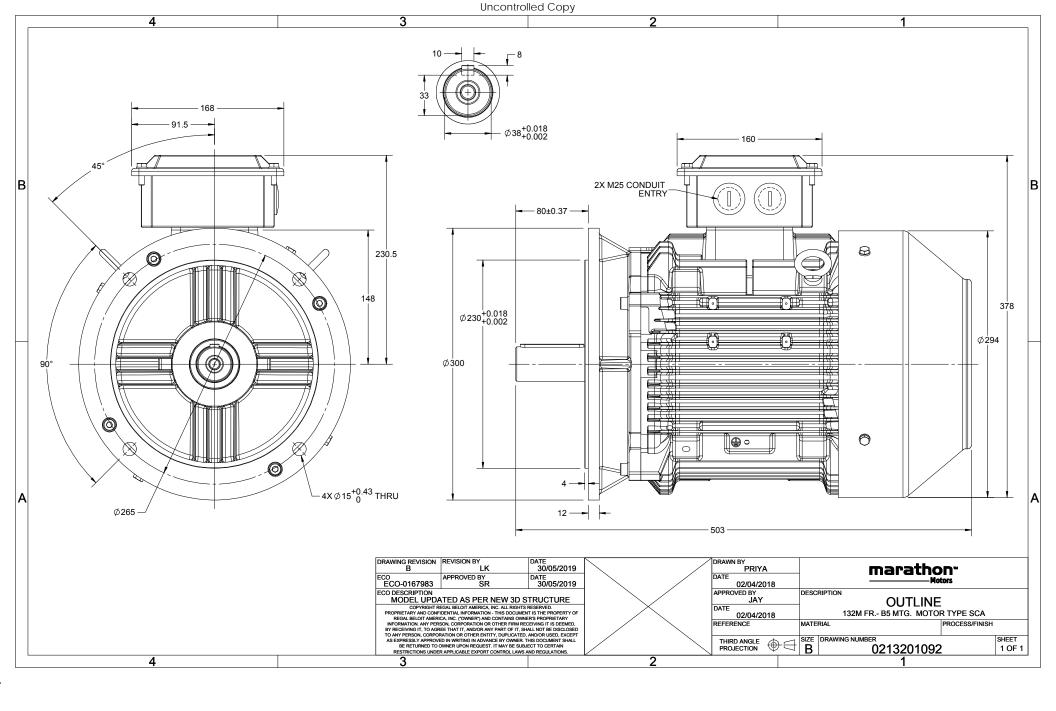
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	415 V
Current	10.6 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6308
Opp Drive End Bearing Size	6208	UL	No
CSA	No	CE	Yes
IP Code	55		

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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0213201092	Connection Drawing	8442000085

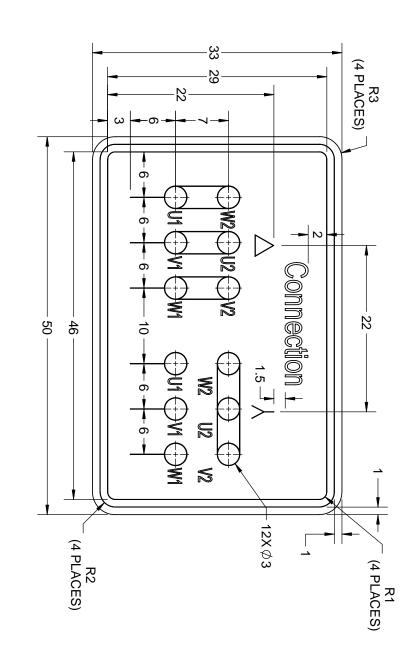
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NEW DRAWING RELEASE

DATE 13/01/2017 DATE 13/01/2017

GEOM	GEOMENTRIC TOLERANCE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- $\omega \bowtie \neg$
- 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 BY THE TABLE.

8WD.442.2017

THIRD ANGLE	REFERENCE	DATE 16/12/2016	APPROVED BY SBD	DATE 16/12/2016	DRAWN BY SN
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Terra MAX[®]

Model No. SCA5P52A3121GAAD01

U	Δ/Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	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	5.5	7.5	10.6	1456	36.84	IE2	-	87.7	87.7	87.5	0.83	0.76	0.62	7.6	3.3	3.5

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132S		Motor weight - approx.	83	kg
Duty	S1		Gross weight - approx.	86	kg
Voltage variation *	± 10%		Motor inertia	0.0228	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from motor	or) 67	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)	6/10	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	6308-2Z / 6208-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 16mm ² /2 x M25 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

* 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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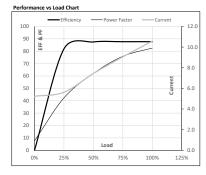




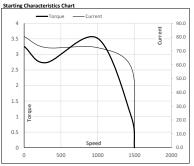
Model No. SCA5P52A3121GAAD01

Enclosure	U (V)	Δ/Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m²]	Weight [kg]
TEFC	415	Δ	50	5.5	7.5	10.6	1456	3.76	36.84	IE2	50	\$1	1000	0.0228	83

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.2	5.6	7.4	9.1	10.6	
Torque	Nm	0.0	9.0	18.1	27.3	36.8	
Speed	r/min	1500	1489	1479	1468	1456	
Efficiency	%	0.0	81.9	87.5	87.7	87.7	
Power Factor	%	7.6	42.3	62.1	75.9	82.5	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	997	1456	1500	
Current	Α	80.5	72.4	58.1	10.6	5.2	
-		2.2	2.7	2.5			



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

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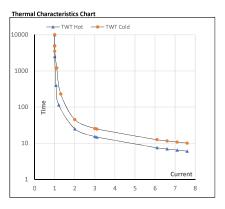




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Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	5.5	7.5	10.6	1456	3.76	36.84	IE2	50	S1	1000	0.0228	83

Motor Speed	Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR					
TWT Hot	s	10000	25	15	11	10	8	6					
TWT Cold	s	10000	45	25	20	17	15	10					
Current	pu	1	2	3	4	5	5.5	7.6					



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