PRODUCT INFORMATION PACKET



Model No: SCA2P23A3111GAAD01 Catalog No: SCA2P23A3111GAAD01

2.2kW, General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, 415V, B3, 50Hz, 81.8%, 112M Frame, TEFC

Cast Iron IE2 Efficiency Motors





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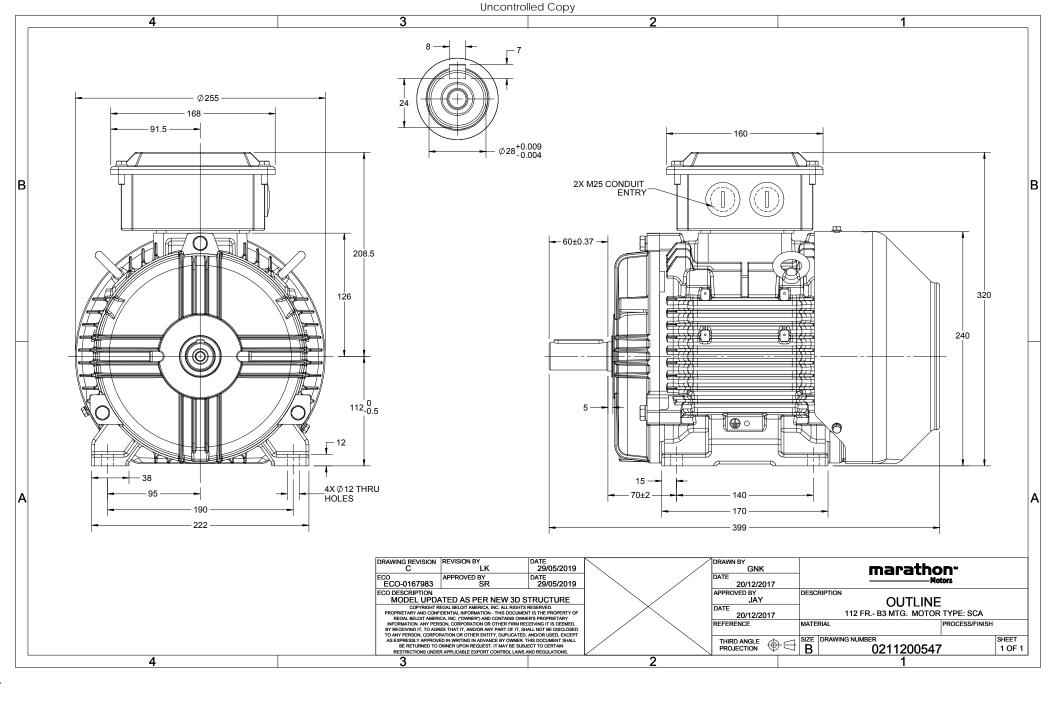
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	415 V
Current	4.8 A	Speed	963 rpm
Service Factor	1	Phase	3
Efficiency	81.8 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6306
Opp Drive End Bearing Size	6206	UL	No
CSA	No	CE	Yes
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	TOP		
Connection Drawing	8442000085	Outline Drawing	0211200547

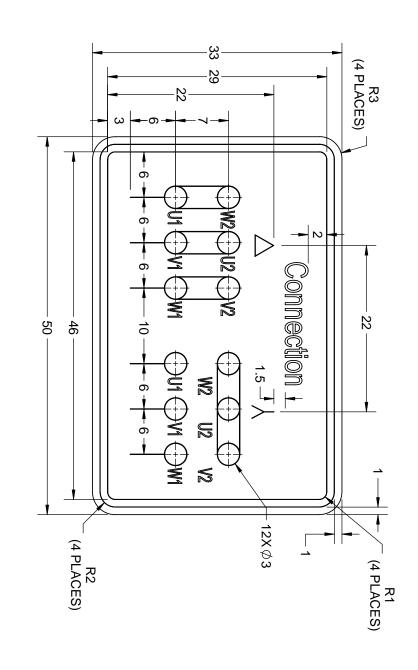
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NEW DRAWING RELEASE

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

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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. SCA2P23A3111GAAD01

U	Δ/Y	f	Р	P	- 1	n	Т	IE	9	6 EFF a	tload	i	PF	atlo	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	Υ	50	2.2	3.0	4.8	963	22.19	IE2		81.8	81.8	81.8	0.77	0.70	0.55	5.7	2.3	2.6

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	112M		Motor weight - approx.	46	kg
Duty	\$1		Gross weight - approx.	49	kg
Voltage variation *	± 10%		Motor inertia	0.0195	kgm ²
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) 62	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	6306-2Z / 6206-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	LR 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

REGAL

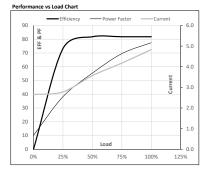




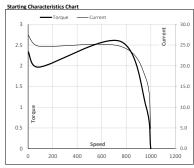
Model No. SCA2P23A3111GAAD01

Enclosure	U	Δ/Υ	f	P	Р	1	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	415	Υ	50	2.2	3.0	4.8	963	2.26	22.19	IE2	50	S1	1000	0.0195	46

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.7	2.8	3.6	4.2	4.8	
Torque	Nm	0.0	5.4	10.9	16.5	22.2	
Speed	r/min	1000	991	983	973	963	
Efficiency	%	0.0	73.2	81.8	81.8	81.8	
Power Factor	%	10.1	38.2	55.3	69.5	77.5	



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	751	963	1000
Current	Α	27.5	24.7	16.7	4.8	2.7
Torque	nu	2.3	2.0	2.6	1	0



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

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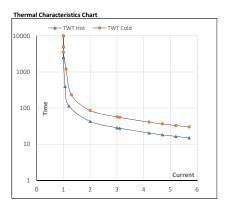




Model No. SCA2P23A3111GAAD01

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-m²]	[kg]
TEFC	415	Υ	50	2.2	3.0	4.8	963	2.26	22.19	IE2	50	S1	1000	0.0195	46

Motor Spee	d Torq	ue Data						
Load		FL	l ₁	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	29	22	17	16	15
TWT Cold	s	10000	86	57	45	34	31	30
Current	pu	1	2	3	4	5	5.5	5.7



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

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