PRODUCT INFORMATION PACKET



Model No: SCA0372A3111GAAD01 Catalog No: SCA0372A3111GAAD01

37kW, General Purpose Low Voltage IEC Motor, 3 phase, 4 Pole, 415V, B3, 50Hz, 92.7%, 225S Frame, TEFC

Cast Iron IE2 Efficiency Motors





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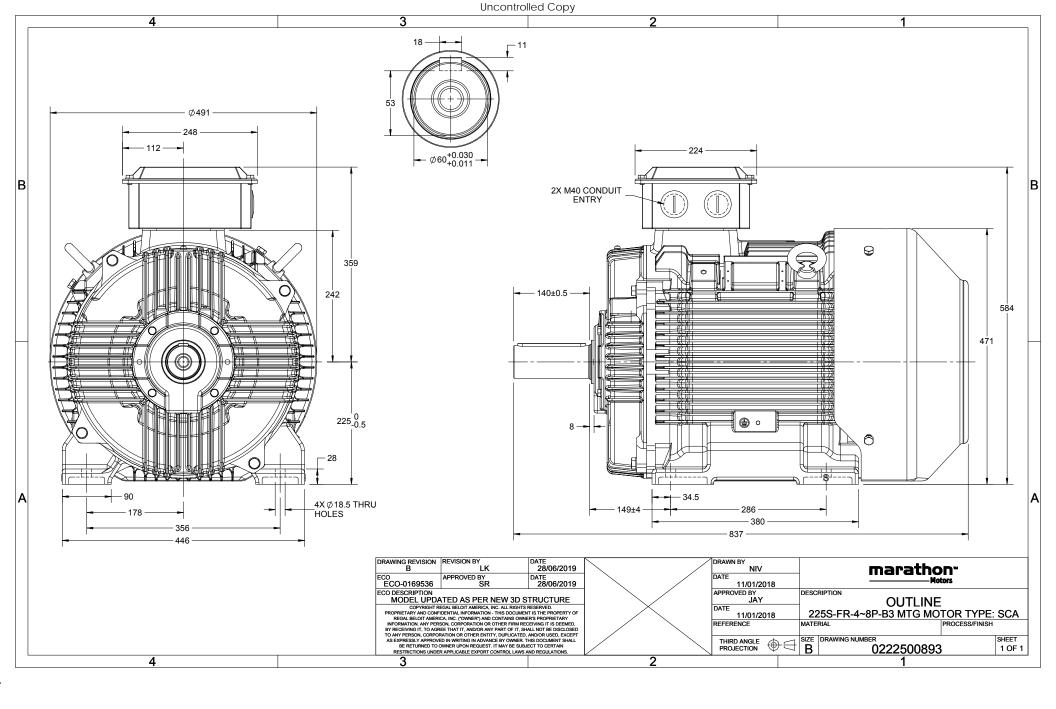
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	64.4 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	92.7 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6313
Opp Drive End Bearing Size	6213	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	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0222500893	Connection Drawing	8442000085

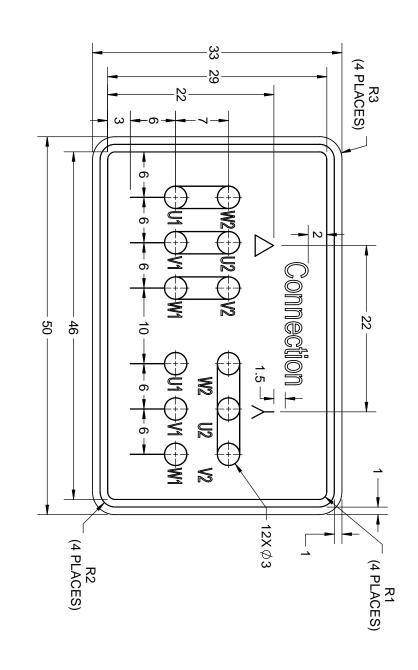
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NEW DRAWING RELEASE

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.

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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. SCA0372A3111GAAD01

U	Δ/Υ	f	Р	Р	- 1	n	Т	IE	9	6 EFF a	t load	i	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	37	50	64.4	1479	241.02	IE2	-	92.7	92.7	93.7	0.86	0.83	0.74	6.2	2.3	2.9

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	225S		Motor weight - approx.	354	kg
Duty	S1		Gross weight - approx.	384	kg
Voltage variation *	± 10%		Motor inertia	0.5292	kgm²
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) 76	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 resista	nce) 70 [Class B]	K	LR withstand time (hot/cold)	10/20	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classificatio	n 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	6313 C3 / 6213 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	R x 3C x 50mm ² /2 x M40 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		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

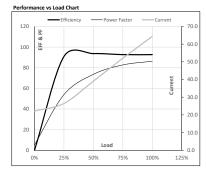




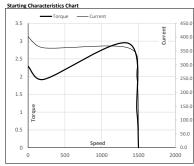
Model No. SCA0372A3111GAAD01

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	37	50	64.4	1479	24.58	241.02	IE2	50	S1	1000	0.5292	354

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	22.2	26.5	39.1	52.1	64.4	
Torque	Nm	0.0	59.5	119.5	179.9	241.0	
Speed	r/min	1500	1495	1490	1485	1479	
Efficiency	%	0.0	90.9	93.7	92.7	92.7	
Power Factor	%	5.2	53.9	73.6	82.7	86.3	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1361	1479	1500	
Current	Α	401.3	361.2	249.3	64.4	22.2	
-		2.2	1.0	2.0			



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

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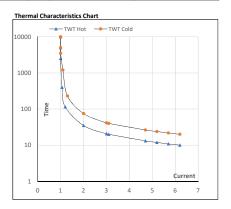




Model No. SCA0372A3111GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	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	Δ	50	37	50	64.4	1479	24.58	241.02	IE2	50	S1	1000	0.5292	354

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	21	18	12	11	10
TWT Cold	s	10000	75	41	38	25	22	20
Current	pu	1	2	3	4	5	5.5	6.2



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