PRODUCT INFORMATION PACKET



Model No: SCA3752A3113GAAD01 Catalog No: SCA3752A3113GAAD01

375kW, General Purpose Low Voltage IEC Motor, 3 phase, 4 Pole, 415V, B3, 50Hz, 95.1%, 355L Frame, TEFC

Cast Iron IE2 Efficiency Motors





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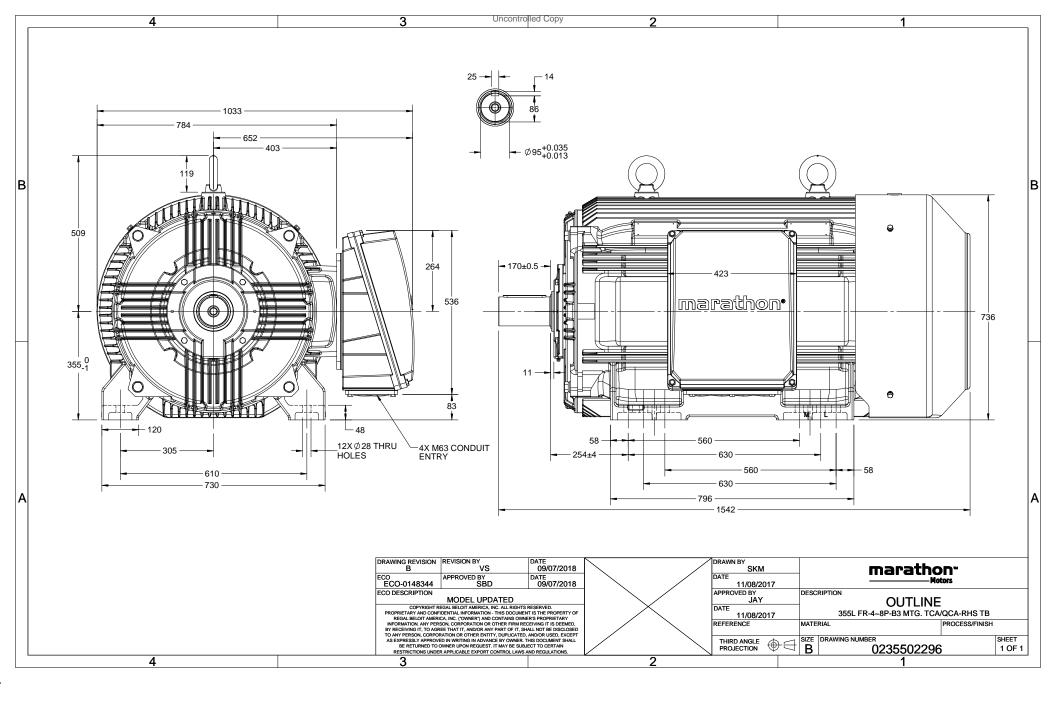
Nameplate Specifications

Output HP	503 Hp	Output KW	375.0 kW
Frequency	50 Hz	Voltage	415 V
Current	609.6 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6322
Opp Drive End Bearing Size	6322	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	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	SIDE		
Connection Drawing	8442000085	Outline Drawing	0235502296

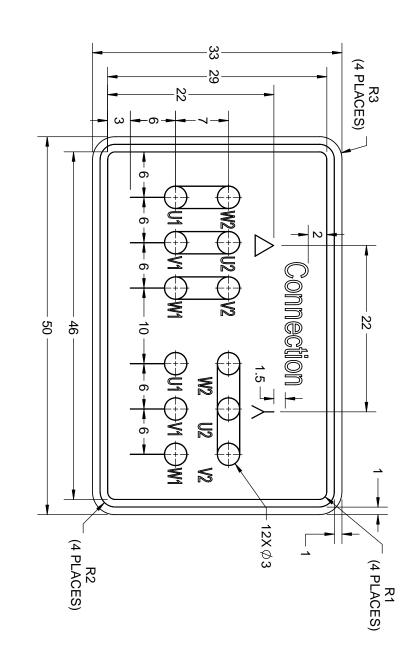
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NEW DRAWING RELEASE

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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Model No. SCA3752A3113GAAD01

U	Δ / Y	f	Р	Р	1	n	T	IE	9	6 EFF a	t load		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	375	503	609.6	1489	2405.5	IE2	-	95.1	95.1	96.4	0.90	0.89	0.85	5.6	1.9	2.3

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355L		Motor weight - approx.	2011	kg
Duty	S1		Gross weight - approx.	2056	kg
Voltage variation *	± 10%		Motor inertia	11.1377	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from mot	tor) 82	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	e) 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	6322 C3 / 6322 C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 300mm ² /4 x M63 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		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

* 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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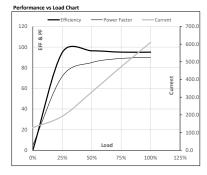




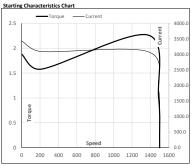
Model No. SCA3752A3113GAAD01

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	Δ	50	375	503	609.6	1489	245.29	2405.47	IE2	50	S1	1000	11.1377	2011

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	127.6	192.1	329.2	472.3	609.6	
Torque	Nm	0.0	598.0	1198.1	1800.4	2405.5	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	94.8	96.4	95.1	95.1	
Power Factor	%	4.9	71.7	85.0	89.0	90.0	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1370	1489	1500	
Current	Α	3435.7	3092.1	1876.0	609.6	127.6	
Torque	nu	1.9	1.6	2.3	1	0	



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

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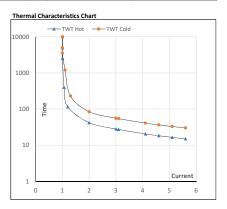




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Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	375	503	609.6	1489	245.29	2405.47	IE2	50	S1	1000	11.1377	2011

Motor Speed	Motor Speed Torque Data											
Load		FL	l ₁	I ₂	l ₃	I_4	I ₅	LR				
TWT Hot	s	10000	42	28	20	17	16	15				
TWT Cold	s	10000	84	56	39	35	31	30				
Current	pu	1	2	3	4	5	5.5	5.6				



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

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