PRODUCT INFORMATION PACKET



Model No: SCA3151A4111GAA001 Catalog No: SCA3151A4111GAA001

TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 355L Frame, TEFC





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Product Information Packet: Model No: SCA3151A4111GAA001, Catalog No:SCA3151A4111GAA001 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 355L Frame, TEFC



Nameplate Specifications

425 Hp	Output KW	315.0 kW
50 Hz	Voltage	380/660 V
559.8 A	Speed	2984 rpm
1	Phase	3
95 %	Power Factor	0.90
S1	Insulation Class	F
355L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6317	Opp Drive End Bearing Size	6317
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 559.8 A 1 95 % S1 355L No Protection 6317 No	50 Hz Voltage 559.8 A Speed 1 Phase 95 % Power Factor \$1 Insulation Class 355L Enclosure No Protection Ambient Temperature 6317 Opp Drive End Bearing Size No CSA Yes IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	2	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	С3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1512 mm	Frame Length	1010 mm	
Shaft Diameter	75 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0235501824	Connection Drawing	8442000085	

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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.

8WD.442.2017







U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load		PI	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	315	425	559.8	2984	1014.37	IE2	-	95	95	94.9	0.9	0.88	0.82	7	2.1	3.3

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355L	
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	e) 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	6317 C3 / 6317 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	1856	kg
Gross weight - approx.	1901	kg
Motor inertia	4.7428	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	tor) 90	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	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 300mm²/4 x M63 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

* 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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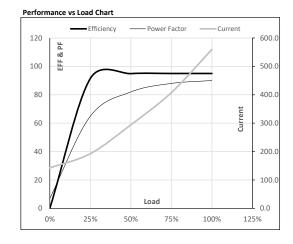




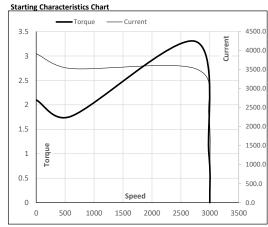
Model No. SCA3151A4111GAA001

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	315	425	559.8	2984	103.44	1014.37	IE2	40	S1	1000	4.7428	1856

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	142.4	192.6	294.2	407.5	559.8	
Torque	Nm	0.0	252.5	505.8	759.7	1014.4	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	91.5	94.9	95.0	95.0	
Power Factor	%	7.0	64.9	82.0	88.0	90.0	



Motor Speed 1	Motor Speed Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2745	2984	3000	
Current	Α	3918.3	3526.5	2258.1	559.8	142.4	
Torque	pu	2.1	1.8	3.3	1	0	



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

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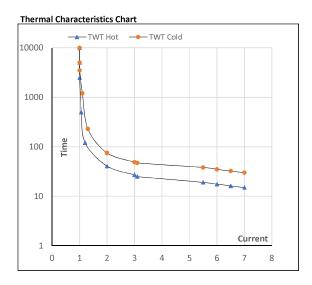




Model No. SCA3151A4111GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	50 Δ	50	315	425	559.8	2984	103.44	1014.37	IE2	40	S1	1000	4.7428	1856

Motor Speed Torque Data										
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR		
TWT Hot	s	10000	41	27	23	21	19	15		
TWT Cold	s	10000	75	49	45	41	38	30		
Current	pu	1	2	3	4	5	5.5	7		



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

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