PRODUCT INFORMATION PACKET



Model No: SCA3151A4121GAA001 Catalog No: SCA3151A4121GAA001

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: SCA3151A4121GAA001, Catalog No:SCA3151A4121GAA001 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	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
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	0235501826	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







MODEL NO. SCA3151A4121GAAUU.	Model No.	SCA3151A4121GAA001
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U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	b	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

SCA	
TEFC	
Cast Iron	
355L	
S1	
± 10%	
± 5%	
10%	
N	
1.0	
F	
-20 to +40	°C
80 [Class B]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
6317 C3 / 6317 C3	
Regreasable	
CHEVRON SRI-2 or Equivalent	
	TEFC Cast Iron 355L S1 ±10% ±5% 10% N 1.0 F -20 to +40 80 [Class B] 1000 NA NA NA NA Aluminum Die cast Anti-friction ball 6317 C3 / 6317 C3 Regreasable

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	1843	kg
Gross weight - approx.	1888	kg
Motor inertia	4.7428	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from motor)	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

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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

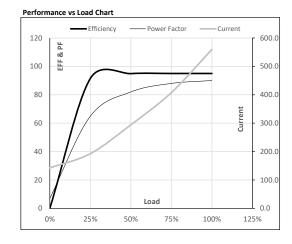




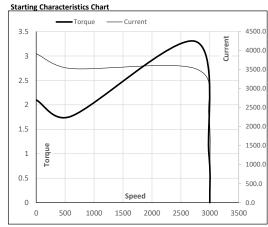
Model No. SCA3151A4121GAA001

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	1843

Motor Load Dat	ta						
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	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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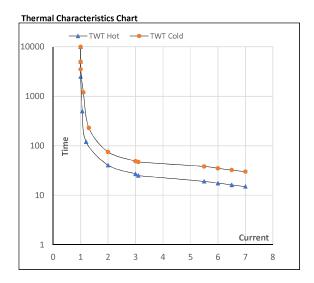




Model No. SCA3151A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	380/66	50 Δ	50	315	425	559.8	2984	103.44	1014.37	IE2	40	S1	1000	4.7428	1843

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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