PRODUCT INFORMATION PACKET



Model No: SCA2502A4131GAA001 Catalog No: SCA2502A4131GAA001

TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 355M Frame, TEFC



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Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	448.8 A	Speed	1490 rpm		
Service Factor	1	Phase	3		
Efficiency	95.1 %	Power Factor	0.89		
Outy S1		Insulation Class	F		
Frame	355M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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	Тор		
Outline Drawing	0235501830	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. SCA2502A4131GAA001

(V) Conn [Hz] [kW] [hp] [A] [RPM] [Nm] Class 5/4FL FL 3/4FL 1/2FL FL 3/4FL 1/2FL FL 3/4FL 1/2FL [p] 380/660 Δ 50 250 335 448.8 1490 1601.4 IE2 - 95.1 95.7 0.89 0.88 0.83 6.		
380/660 Δ 50 250 335 448.8 1490 1601.4 IE2 - 95.1 95.1 95.7 0.89 0.88 0.83 6.	0.02	
	0.83 6.5 1.9	.9 2.5

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
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)	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	6322 C3 / 6322 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	1762	kg
Gross weight - approx.	1807	kg
Motor inertia	8.4434	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	tor) 82	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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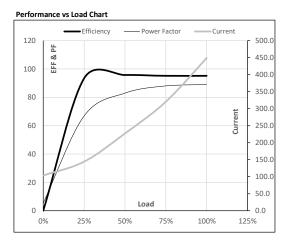




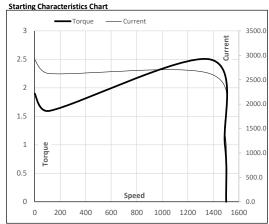
Model No. SCA2502A4131GAA001

(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]		Inertia	Elevation	Duty	Amb	IE	T	Т	n	1	Р	P	f	Δ / Y	U	Enclosure
	[kg]	[kg-m²]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
^{TEFC} 380/660 Δ 50 250 335 448.8 1490 163.29 1601.35 IE2 40 S1 1000 8.4434	1762	8.4434	1000	S1	40	IE2	1601.35	163.29	1490	448.8	335	250	50	Δ	380/660	TEFC

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	103.5	144.3	227.1	320.2	448.8	
Torque	Nm	0.0	398.3	797.8	1198.8	1601.4	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.5	95.7	95.1	95.1	
Power Factor	%	5.5	66.9	83.0	88.0	89.0	



Motor Speed Torque Data Load Point P-Up BD Rated Speed 115 Current Α 2917.0 2625.3 1414.7 448.8 103.5 1.9 1.6 2.5 0 Torque pu



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

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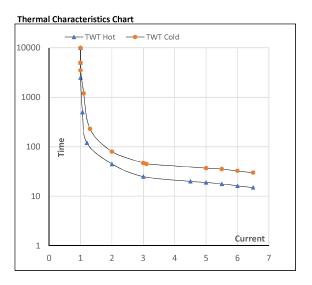




Model No. SCA2502A4131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	Ο Δ	50	250	335	448.8	1490	163.29	1601.35	IE2	40	S1	1000	8.4434	1762

Motor Speed	d Torq	ue Data						
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	45	25	23	19	18	15
TWT Cold	s	10000	80	47	46	37	36	30
Current	pu	1	2	3	4	5	5.5	6.5



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

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