PRODUCT INFORMATION PACKET



Model No: SCA0554A3131GAAD01 Catalog No: SCA0554A3131GAAD01

TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 315S Frame, TEFC





Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Nameplate Specifications

75 Hp	Output KW	55.0 kW
50 Hz	Voltage	415 V
116.3 A	Speed	742 rpm
1	Phase	3
91 %	Power Factor	0.7228
S1	Insulation Class	F
315S	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	50 °C
6319	Opp Drive End Bearing Size	6319
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 116.3 A 1 91 % S1 315S No Protection 6319 No	50 Hz Voltage 116.3 A Speed 1 Phase 91 % Power Factor S1 Insulation Class 315S Enclosure No Protection Ambient Temperature 6319 Opp Drive End Bearing Size No CSA Yes IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	B35	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	СЗ	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1206 mm	Frame Length	729 mm	
Shaft Diameter	80 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	TOP			
Connection Drawing	8442000085	Outline Drawing	0231500891	

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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

GEOMENTRIC TOLERANCE							
	>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. SCA0554A3131GAAD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	b	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	55	75	118.2	742	720.0082	IE2	-	91.0	91.0	91.3	0.73	0.67	0.54	4.3	1.8	2.0

Motortuna	SCA		Dograp of protection	IP 55	
Motor type	TEFC		Degree of protection		
Enclosure			Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315S		Motor weight - approx.	877	kg
Duty	S1		Gross weight - approx.	922	kg
Voltage variation *	± 10%		Motor inertia	3.7895	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from moto	or) 64	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	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreaseable		Maximum cable size/conduit size 18	x 3C x 240mm²/2 x M63 x 1.5	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 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

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 slight variations between calculated values in this datasheet and the motor nameplate figures.

Teermical date	are subject to the	inge. There may be singlift varie	ations between calculated ve	nacs in this autusinee	t and the motor namep	iate ligares.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Ctandards	_	_	IS 12615 · 2018	_	_	



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

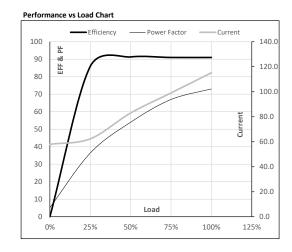




Model No. SCA0554A3131GAAD01

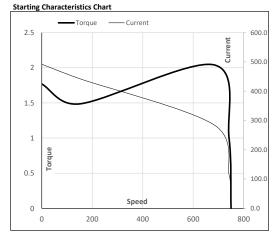
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	55	75	115.2	742	73.42	720.01	IE2	50	S1	1000	3.7895	877

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	57.9	62.3	83.0	99.0	115.2	
Torque	Nm	0.0	178.7	358.1	538.5	720.0	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	85.9	91.3	91.0	91.0	
Power Factor	%	5.2	36.4	54.0	67.0	73.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	683	742	750
Current	Α	492.1	442.9	285.2	115.2	57.9
Torque	pu	1.8	1.5	2.0	1	0



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

Issued By Issued Date

REGAL

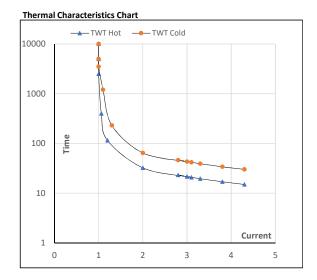




Model No. SCA0554A3131GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	55	75	115.2	742	73.42	720.01	IE2	50	S1	1000	3.7895	877

Motor Speed	Motor Speed Torque Data											
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR				
TWT Hot	S	10000	32	25	22	18	16	15				
TWT Cold	S	10000	65	55	43	38	32	30				
Current	pu	1	2	2.5	3	3.5	4	4.3				



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

Issued By Issued Date

REGAL