# PRODUCT INFORMATION PACKET



Model No: SCA0554A4131GAA001 Catalog No: SCA0554A4131GAA001

TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 315S Frame, TEFC



**FRegal**Rexnord

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

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Product Information Packet: Model No: SCA0554A4131GAA001, Catalog No:SCA0554A4131GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 315S Frame, TEFC



### Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	127.5 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	0.72
Duty	<b>S</b> 1	Insulation Class	F
Frame	315S Enclosure		Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	4	Efficiency Class	IE2

### **Technical Specifications**

Squirrel Cage	Starting Method	Direct On Line
8	Rotation	Bi-Directional
B35	Motor Orientation	Horizontal
СЗ	Opp Drive End Bearing	С3
Cast Iron	Shaft Type	Keyed
1206 mm	Frame Length	729 mm
80 mm	Shaft Extension	170 mm
Тор		
0231500891	Connection Drawing	8442000085
	8 B35 C3 Cast Iron 1206 mm 80 mm Top	8 Rotation  B35 Motor Orientation  C3 Opp Drive End Bearing  Cast Iron Shaft Type  1206 mm Frame Length  80 mm Shaft Extension  Top

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022

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**

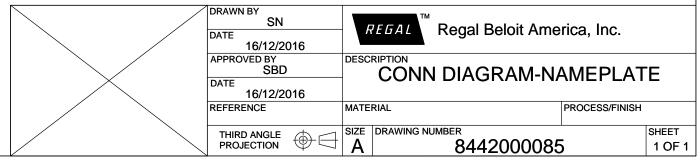
GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



#### 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. SCA0554A4131GAA001

U	Δ/Υ	f	Р	Р		n	Т	IE	%	EFF a	t load	I	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(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	55	75	127.5	742	720.01	IE2	-	91	91	91.3	0.72	0.66	0.53	4.7	1.8	2.0

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315S		Motor weight - approx.	876	kg
Duty	S1		Gross weight - approx.	921	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 mo	tor) 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 +40	°C	Type of coupling	Direct	
Temperature rise (by resistance	) 80 [ Class B ]	K	LR withstand time (hot/cold)	30/15	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	Re-grease-able		Maximum cable size/conduit size	1R x 3C x 240mm <sup>2</sup> /2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 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

## 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

REGAL

 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combine variation are as per IEC60034-1