PRODUCT INFORMATION PACKET



Model No: SCA0043A4171GAA001 Catalog No: SCA0043A4171GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC





Product Information Packet: Model No: SCA0043A4171GAA001, Catalog No:SCA0043A4171GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC



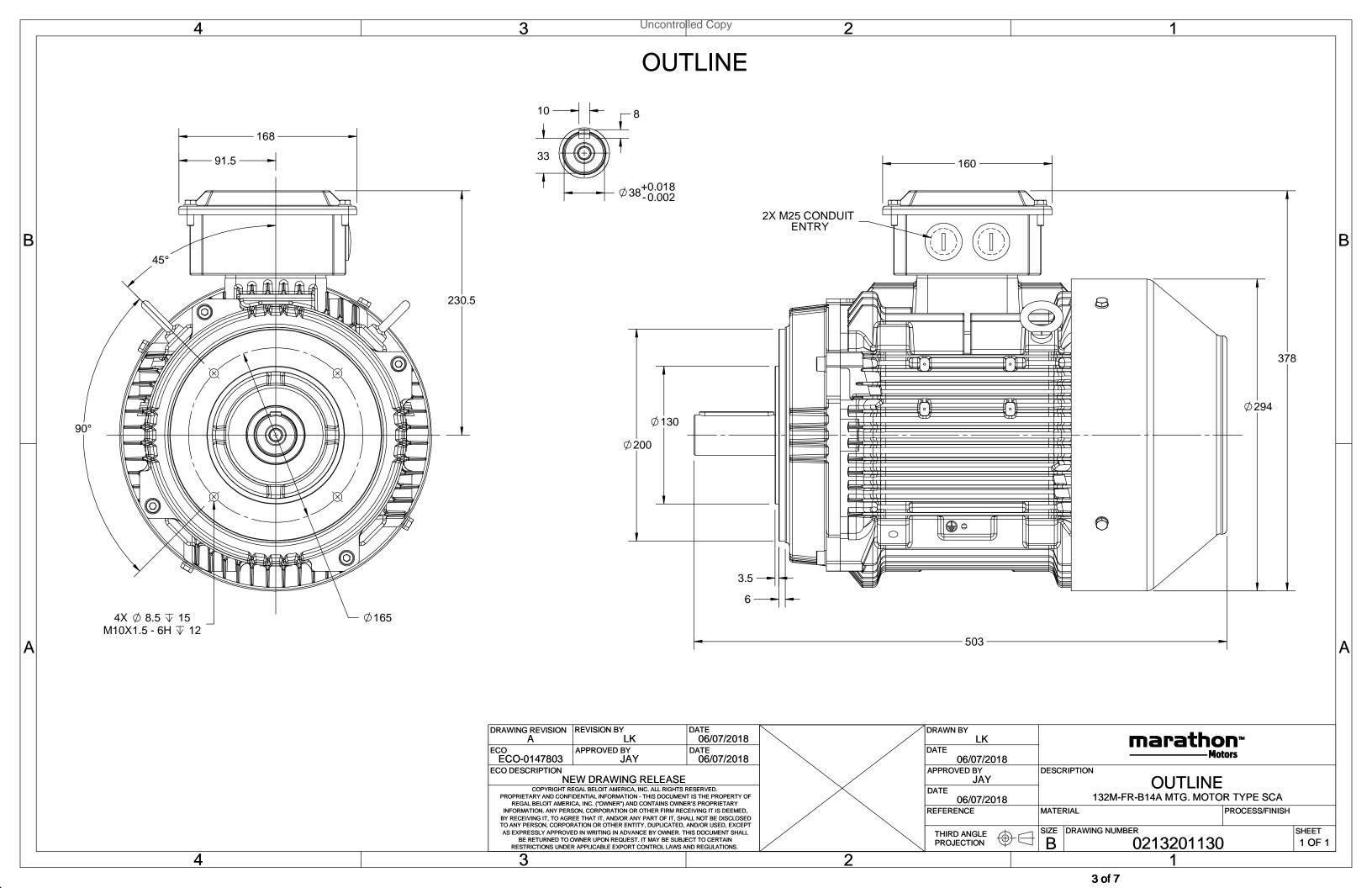
Nameplate Specifications

5.50 Hp	Output KW	4.0 kW
50 Hz	Voltage	380/660 V
9.1 A	Speed	953 rpm
1	Phase	3
84.6 %	Power Factor	0.79
S1	Insulation Class	F
132M	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6308	Opp Drive End Bearing Size	6208
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE2
	50 Hz 9.1 A 1 84.6 % S1 132M No Protection 6308 No	9.1 A Speed 1 Phase 84.6 % Power Factor S1 Insulation Class 132M Enclosure No Protection Ambient Temperature 6308 Opp Drive End Bearing Size No CSA Yes IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201130	Connection Drawing	8442000085

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. SCA0043A4171GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t loac	I	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]
380/660	Δ	50	4	5.5	9.1	953	41.18	IE2	-	84.6	84.6	85.1	0.79	0.73	0.61	6	2.6	2.7

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132M		Motor weight - approx.	80	kg
Duty	S1		Gross weight - approx.	83	kg
Voltage variation *	± 10%		Motor inertia	0.0256	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from mot	or) 59	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 resis	tance) 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 classificati	on NA		Standard rotation	Clockwise form DE	
Zone classifica	tion NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature of	lass NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6308-2Z / 6208-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 16mm ² /2 x M25 x 1.5	
Type of grease	NA		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

REGAL

 $[\]ensuremath{^{*}}$ Voltage, Frequency and combine variation are as per IEC60034-1

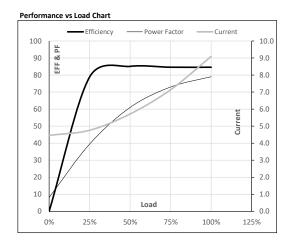




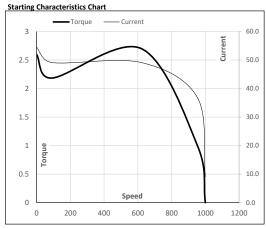
Model No. SCA0043A4171GAA001

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	4	5.5	9.1	953	4.20	41.18	IE2	40	S1	1000	0.0256	80

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	4.5	4.8	5.7	7.1	9.1	
Torque	Nm	0.0	9.9	20.1	30.4	41.2	
Speed	r/min	1000	989	979	967	953	
Efficiency	%	0.0	78.9	85.1	84.6	84.6	
Power Factor	%	8.1	39.5	61.0	73.0	79.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	621	953	1000	
Current	Α	54.6	49.1	36.8	9.1	4.5	
Torque	pu	2.6	2.2	2.7	1	0	



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

Issued By Issued Date

REGAL

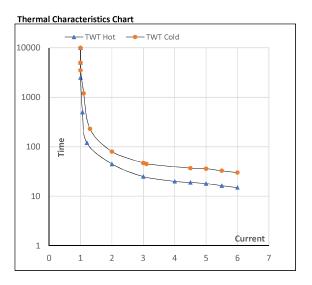




Model No. SCA0043A4171GAA001

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-m ²]	[kg]
TEFC	380/66	0 Δ	50	4	5.5	9.1	953	4.20	41.18	IE2	40	S1	1000	0.0256	80

Motor Speed	Motor Speed Torque Data												
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR					
TWT Hot	S	10000	45	25	20	18	16	15					
TWT Cold	s	10000	80	47	45	36	33	30					
Current	pu	1	2	3	4	5	5.5	6					



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

Issued By Issued Date

DEGAL