PRODUCT INFORMATION PACKET

Model No: SCA1P53A3131GAAD01 Catalog No: SCA1P53A3131GAAD01 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 100L Frame, TEFC



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Product Information Packet: Model No: SCA1P53A3131GAAD01, Catalog No:SCA1P53A3131GAAD01 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 100L Frame, TEFC

marathon®

Nameplate Specifications

Phase	3	Output HP	2 Нр
Output KW	1.5 kW	Voltage	415 V
Speed	943 rpm	Service Factor	1
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	79.8 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	4.0 A Power Factor		0.65
Duty	S1	Insulation Class	F
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	No	CSA	Νο
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	438 mm	Frame Length	240 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085		

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TerraMAX[®]

Model No. SCA1P53A3131GAAD01

DutyS1Gross weight - approx.46kgVoltage variation *± 10%Motor inertia0.0060kgm²Frequency variation *± 5%Load inertiaCustomer to ProvideCombined variation *10%Vibration level1.6mm/sDesignNNo: of starts hot/cold/Equally spread2/3/4Motor inertiaService factor1.0No: of starts hot/cold/Equally spread2/3/4Motor inertiaInsulation classFStarting methodDOLMotor inertiaAmbient temperature-20 to +50°CType of couplingDirectMotor inertiaAntibient temperature is (by resistance)70 [Class B]KKRwithstand time (hot/cold)15/30sAltitude above sea level1000meterStandard rotationBi-directionalMotor inertiaMotor inertiaZone classificationNAStandard rotationClockwise form DEMotor inertiaMotor inertiaMotor inertiaZone classificationNAAccessoriesAccessoriesMotor inertiaMotor inertiaMotor inertiaMotor inertiaRotor typeAluminum Die castAccessory - 1Motor inertiaMotor inertiaMotor inertiaDE / NDE bearing6206-2Z / 6206-2Zferased for lifeMaximum cable size/conduit size1R x 3C x 10mm²/2 x M20 x 1.5Motor inertia	U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF at	:load	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
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	DE / NI	DE bearii	ng		62	06-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Type of grades NA August to minimal here NA	Lubrica	ition me	thod		Ģ	Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1F	x 3C x 3	10mm²/2 x	M20 x 1.5	
Type of grease NA Auxiliary terminal box NA	Type of	f grease				NA				Aux	kiliary te	rminal	box				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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

 $\ensuremath{^*}$ 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	-	-	IS 12615 : 2018	-	-	-					

REGAL

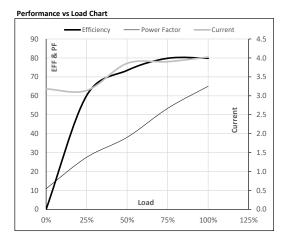
marathon®



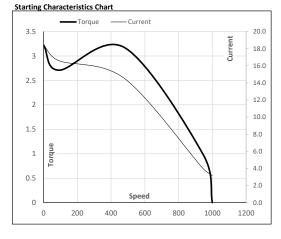
Model No. SCA1P53A3131GAAD01

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	1.5	2.0	4.0	943	1.54	15.10	IE2	50	S1	1000	0.0060	43.0

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.2	3.1	3.9	3.9	4.0	
Torque	Nm	0.0	3.6	7.3	11.1	15.1	
Speed	r/min	1000	986	973	959	943	
Efficiency	%	0.0	60.1	73.4	79.8	79.8	
Power Factor	%	10.9	27.5	38.1	53.4	65.0	



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	480	943	1000
Current	А	18.4	16.6	14.5	4.0	3.2
Torque	pu	3.2	2.7	3.2	1	0



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

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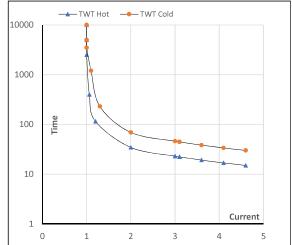
Model No. SCA1P53A3131GAAD01

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	1.5	2.0	4.0	943	1.54	15.10	IE2	50	S1	1000	0.0060	43

Motor Speed Torque Data

Load		FL	I_1	I ₂	١ ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	23	20	18	16	15
TWT Cold	s	10000	69	46	40	35	32	30
Current	pu	1	2	3	3.5	4	4.5	4.6

Thermal Characteristics Chart



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

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EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : SCA1P53A3131GAAD01

(Model No. may contain prefix and/or suffix characters)

Catalog No : SCA1P53A3131GAAD01

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer