## **PRODUCT INFORMATION PACKET**

Model No: SCA0152A1171GAA001 Catalog No: SCA0152A1171GAA001 TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160L Frame, TEFC



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Product Information Packet: Model No: SCA0152A1171GAA001, Catalog No:SCA0152A1171GAA001 TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160L Frame, TEFC

# marathon®

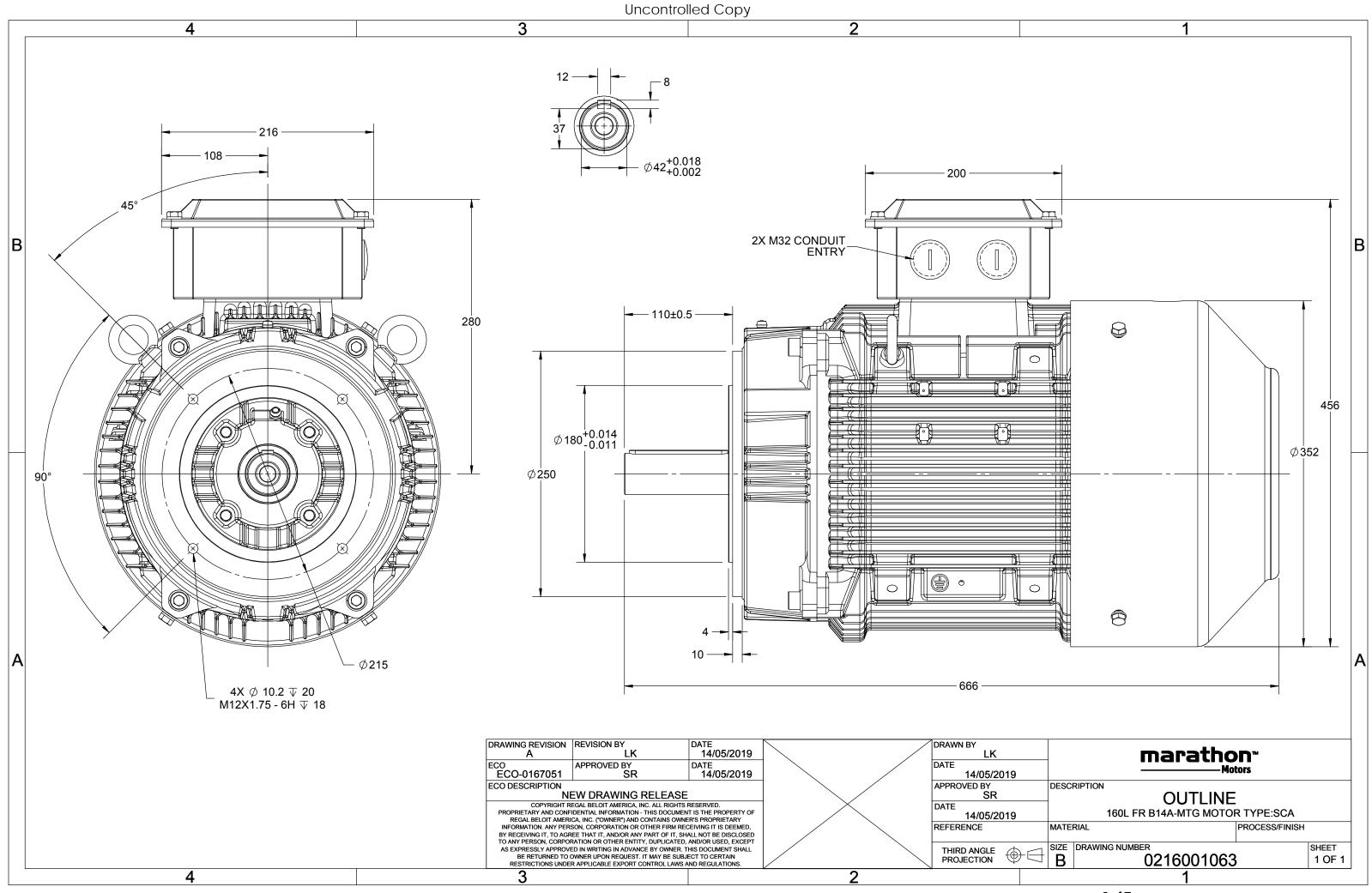
### Nameplate Specifications

Output HP	20 Нр	Output KW	15.0 kW
Frequency	50 Hz	Voltage	400 V
Current	28.1 A	Speed	1465 rpm
Service Factor	1	Phase	3
Efficiency	90.6 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216001063

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## **TerraMAX**<sup>®</sup>

Model No. SCA0152A1171GAA001

Altitude above sea level1000meterDirection of rotationBi-directionalHazardous area classificationNAStandard rotationClockwise form DEZone classificationNAPaint shadeRAL 5014Gas groupNAAccessoriesConcessory - 1Temperature classNAAccessory - 1PTC 150°CRotor typeAluminum Die castAccessory - 2-Bearing typeAnti-friction ballAccessory - 3-DE / NDE bearingGraesed for lifeMaximum cable size/conduit size1R x 3C x 35mm²/2 X M32 x 1.5	U	$\Delta / Y$	f	Р	Р	I	n	т	IE	9	% EFF a	t load	ł	PF	at_lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
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Type of grease NA Auxiliary terminal box Available on Request	Type of	fgrease				NA										Avail	able on Reque	st	

 $I_{A}/I_{N}$  - 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

\* 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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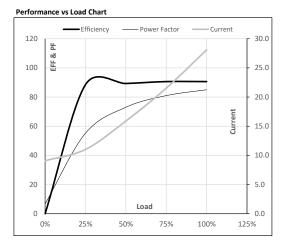
## marathon<sup>®</sup>



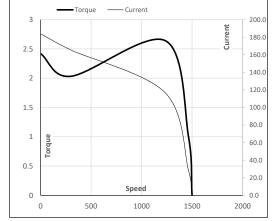
Model No. SCA0152A1171GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	15	20	28.1	1465	9.96	97.70	IE2	40	S1	1000	0.1180	139

Motor Load Dat	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	9.1	11.0	15.9	21.5	28.1	
Torque	Nm	0.0	23.9	48.0	72.4	97.7	
Speed	r/min	1500	1492	1485	1476	1465	
Efficiency	%	0.0	88.5	89.3	90.6	90.6	
Power Factor	%	6.7	55.2	73.0	81.0	85.0	



#### Starting Characteristics Chart



### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1236	1465	1500	
Current	А	183.9	165.5	116.6	28.1	9.1	
Torque	pu	2.4	2.0	2.6	1	0	

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

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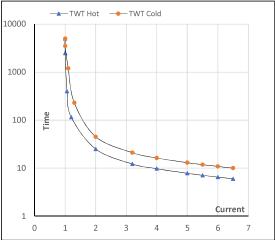
Model No. SCA0152A1171GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	15	20	28.1	1465	9.96	97.70	IE2	40	S1	1000	0.1180	139

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	l <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	s	10000	25	13	10	8	7	6
TWT Cold	s	10000	45	22	16	13	12	10
Current	pu	1	2	3	4	5	5.5	6.5

### Thermal Characteristics Chart



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

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