PRODUCT INFORMATION PACKET

Model No: SCA0303A1131GAA001 Catalog No: SCA0303A1131GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 225M Frame, TEFC



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Product Information Packet: Model No: SCA0303A1131GAA001, Catalog No:SCA0303A1131GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 225M Frame, TEFC

marathon®

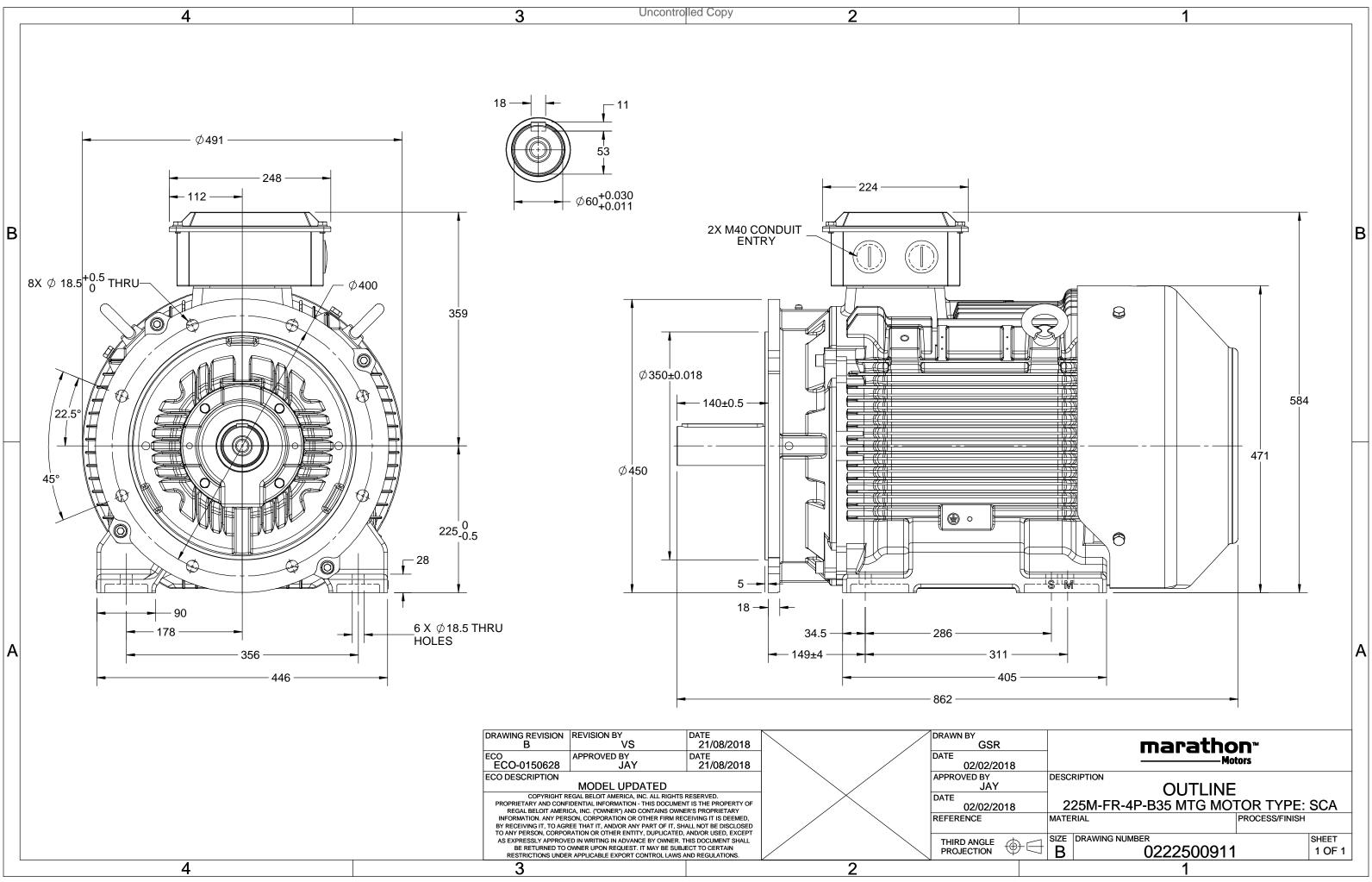
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	56.9 A	Speed	983 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225M 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 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0222500911	Connection Drawing	8442000085

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TerraMAX[®]

1R x 3C x 50mm²/2 x M40 x 1.5

Available on Request

Model No. SCA0303A1131GAA001

·			r															
U	Δ / Y	f	Р	Р	I	n	Т	IE			t load			at lo		I _A /I _N	T_A/T_N	T _κ /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]
400	Δ	50	30	40	56.9	983	289.89	IE2	-	91.7	91.7	92.6	0.83	0.8	0.7	5.6	2.0	2.3
					SCA				-							IP 55		
Motor											orotecti	on						
Enclos					TEFC					Mounting type						IM B35		
	Materia	I			Cast Iro					Cooling method						IC 411		
Frame	size				225N				Mo	Motor weight - approx.						384		
Duty					S1				Gro	ss weig	ht - app	rox.				414		kg
Voltag	e variatio	on *			± 10%	5		Motor inertia								0.7554		kgm ²
Freque	ncy vari	ation *			± 5%				Loa	Load inertia					Custo	omer to Pro	vide	
Combi	ned varia	ation *			10%			Vibr	Vibration level						2.2		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor)					66			dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulat	ion class	5			F				Star	Starting method						DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Tempe	rature ri	ise (by r	esistanc	e)	80 [Class	6 B]		К	LR v	LR withstand time (hot/cold)						30/15		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directiona	l.	
Hazard	lous area	a classif	ication		NA				Star	ndard re	otation				Cloc	ckwise form	DE	
	Zone cl	assifica	tion		NA				Pair	Paint shade						RAL 5014		
	Gas gro	quo			NA				Acc	Accessories								
	Temper	•	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor t				Al	uminum D	ie cast					essory -					-		
Bearin				A	Anti-frictio	n ball				Accessory - 3						-		
	DE beari	ng		63	313 C3 / 6	213 C3			Terr	Terminal box position					ТОР			
22/10	se scan				0313 (37 0213 (3													

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

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

Maximum cable size/conduit size

Auxiliary terminal box

 T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

Lubrication method

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Regreasable

CHEVRON SRI-2 or Equivalent

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

Technical dat	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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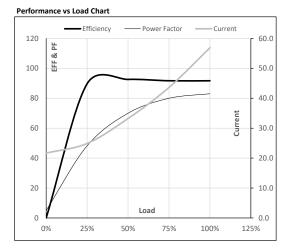


Model No. SCA0303A1131GAA001

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	400	Δ	50	30	40	56.9	983	29.56	289.89	IE2	40	S1	1000	0.7554	384

Motor Load Data

6 56.9
.3 289.9
8 983
7 91.7
0 83.0

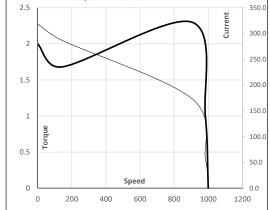


ed	Torque	Data	

Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	143	904	983	1000				
Current	А	318.6	286.7	173.7	56.9	21.7				
Torque	pu	2.0	1.7	2.3	1	0				



Starting Characteristics Chart



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

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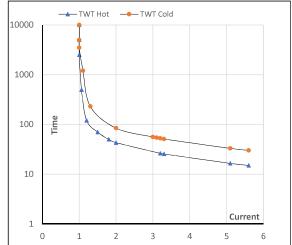
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Enclosure	0 2	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
((V) (Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 4	400	Δ	50	30	40	56.9	983	29.56	289.89	IE2	40	S1	1000	0.7554	384

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	30	23	17	16	15
TWT Cold	s	10000	54	51	45	34	32	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

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