PRODUCT INFORMATION PACKET

Model No: SCA18P3A1131GAA001 Catalog No: SCA18P3A1131GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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Motors





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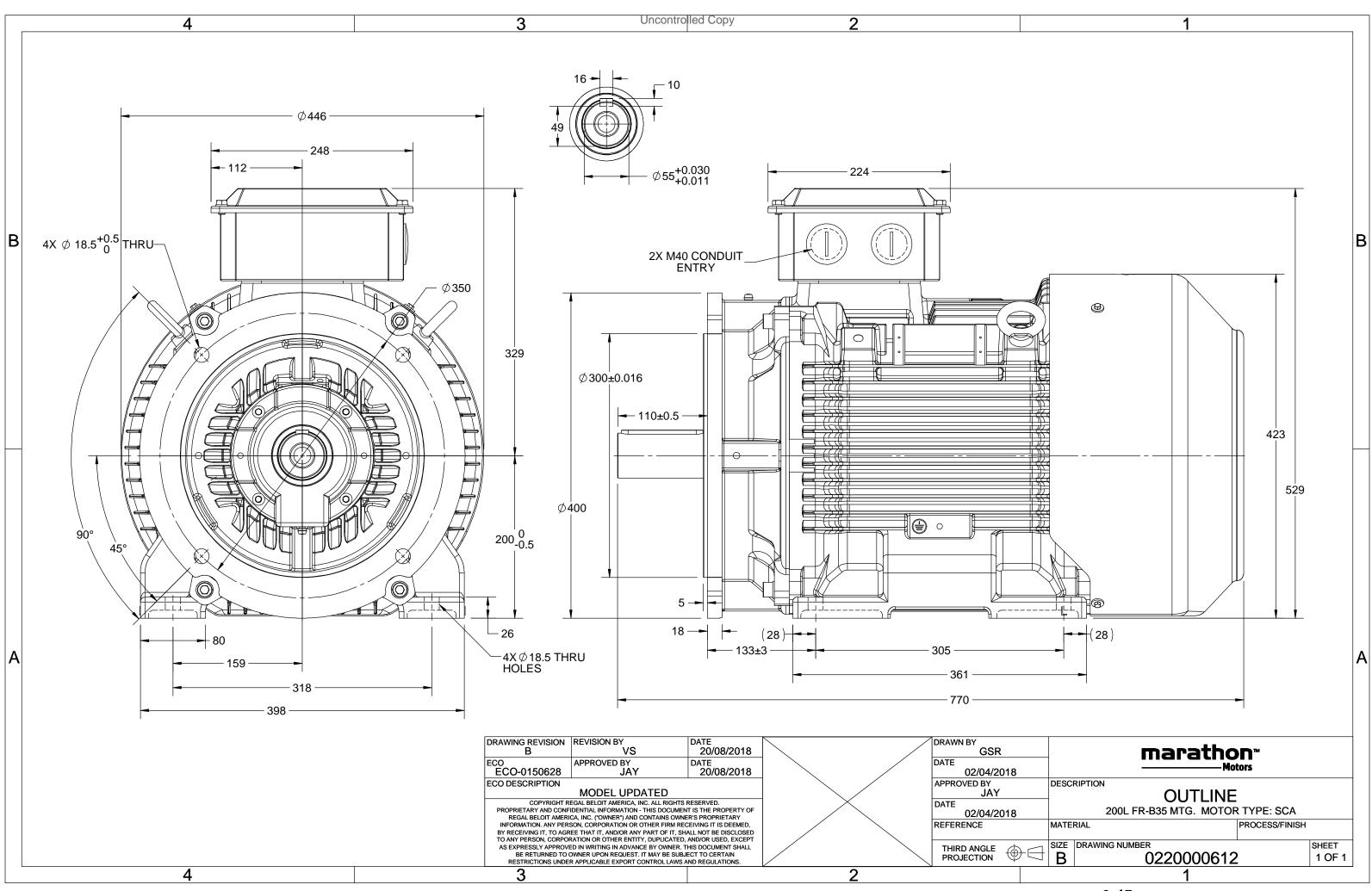
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	35.6 A	Speed	977 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
Drive End Bearing Size	6312 No	Opp Drive End Bearing Size CSA	6212 No
-		_	

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	770 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000612	Connection Drawing	8442000085

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3 of 7





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Model No. SCA18P3A1131GAA001

	Δ/Υ	f		D			T	15			+ 100	J	DI	ot la	ad	1./1	т /т	т /т
U		•	P	P	1	n	T	IE			t_load			at lo		I _A /I _N	T_A/T_N	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	18.5	25	35.6	977	182.36	IE2	-	90.4	90.4	90.9	0.83	0.8	0.7	5.1	1.7	2.1
Motor	tyne				SCA				Dee	ree of i	protecti	on				IP 55		
Enclos					TEFC					unting		on				IM B35		
	Materia	1			Cast Iro					ling me						IC 411		
Frame					200L					0	ght - ap	nrox				261		kg
Duty	5120				 S1			Gross weight - approx.						291		kg		
	e variatio	on *			± 10%			Motor inertia					0.3254		kgm ²			
	ency varia				± 5%				Loa	d inerti	а				Custo	omer to Pro	ovide	Ū
Combi	, ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor)	65		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Star	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	erature ri	se (by i	resistanc	ce)	80 [Class	5 B]		К	LR v	vithsta	nd time	(hot/co	ld)			30/15		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directiona	al	
Hazard	lous area	a classif	ication		NA				Star	ndard r	otation				Cloc	kwise form	n DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	lass		NA					Acc	cessory	- 1				PTC 150°C		

Temperature class	NA	Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast	Accessory - 2	-
Bearing type	Anti-friction ball	Accessory - 3	-
DE / NDE bearing	6312 C3 / 6212 C3	Terminal box position	ТОР
Lubrication method	Regreasable	Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 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

 $T_{\rm A}/T_{\rm N}$ - 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

* 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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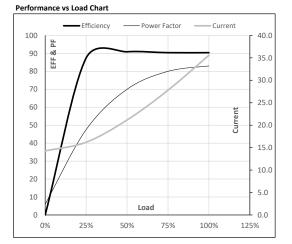


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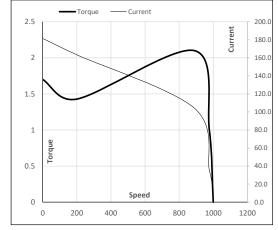
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	35.6	977	18.60	182.36	IE2	40	S1	1000	0.3254	261
	100	-	50	10.5	25	55.0	577	10.00	102.00		.0		1000	0.0201	-

Motor Load Data

		,	1/2FL	3/4FL	FL	5/4FL
А	14.3	16.2	21.2	27.8	35.6	
Nm	0.0	44.8	90.0	135.8	182.4	
/min	1000	995	989	983	977	
%	0.0	87.4	90.9	90.4	90.4	
%	6.0	47.5	70.0	80.0	83.0	
	Nm /min %	Nm 0.0 /min 1000 % 0.0	Nm 0.0 44.8 /min 1000 995 % 0.0 87.4	Nm 0.0 44.8 90.0 /min 1000 995 989 % 0.0 87.4 90.9	Nm 0.0 44.8 90.0 135.8 /min 1000 995 989 983 % 0.0 87.4 90.9 90.4	Nm 0.0 44.8 90.0 135.8 182.4 /min 1000 995 989 983 977 % 0.0 87.4 90.9 90.4 90.4



Starting Characteristics Chart



Motor Spee	d Torque Dat	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	200	889	977	1000
Current	А	181.5	163.4	104.2	35.6	14.3
Torque	pu	1.7	1.4	2.1	1	0

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

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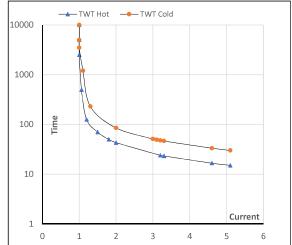
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Enclosure	U	Δ / Y	f	Р	Ρ	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	35.6	977	18.60	182.36	IE2	40	S1	1000	0.3254	261

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	30	22	17	16	15
TWT Cold	s	10000	50	48	45	34	32	30
Current	pu	1	2	3	4	4.5	5	5.1

Thermal Characteristics Chart



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

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