## **PRODUCT INFORMATION PACKET**

Model No: SCA18P2A1131GAA001 Catalog No: SCA18P2A1131GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC



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Motors

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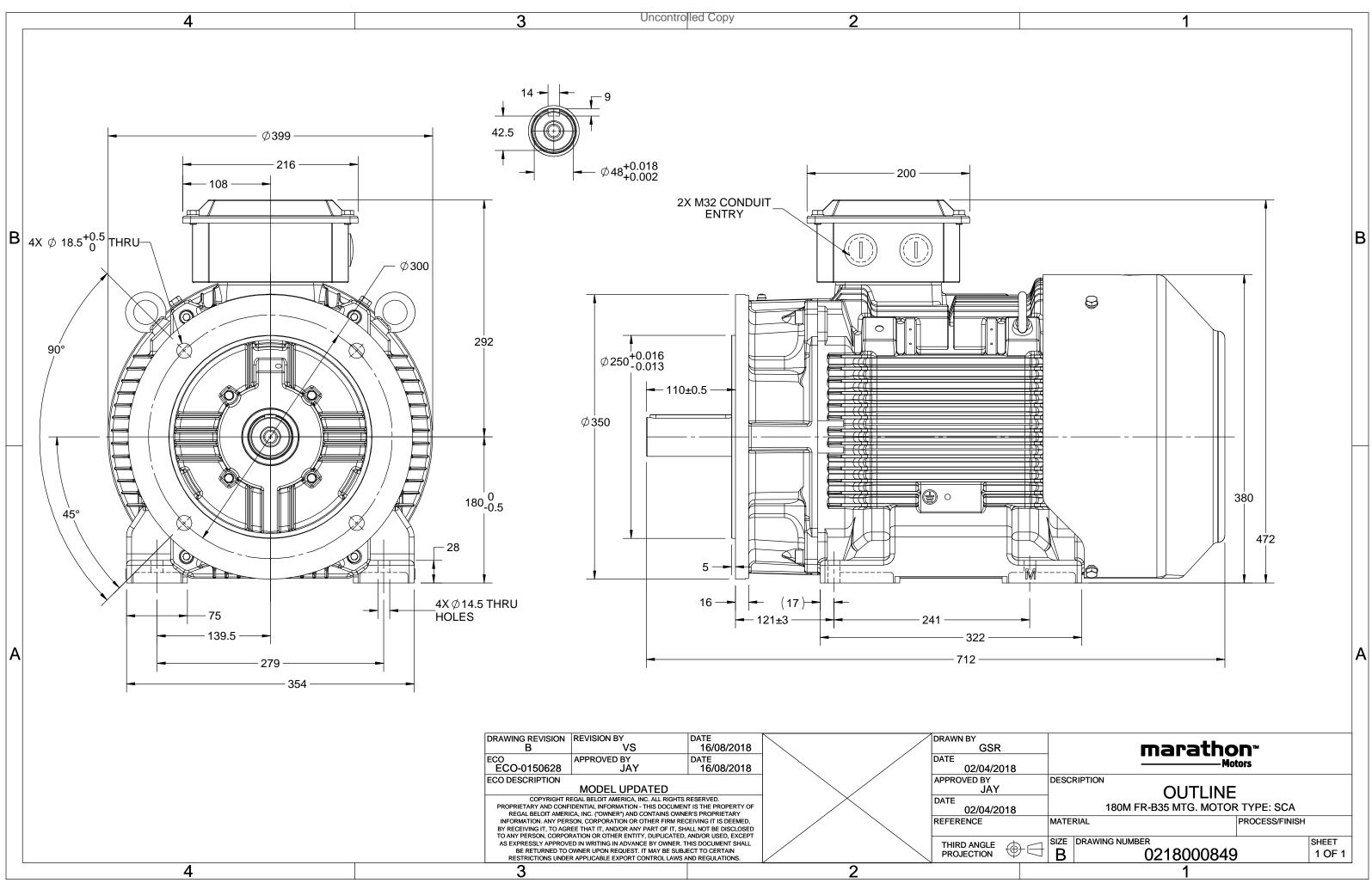
### Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	33.7 A	Speed	1469 rpm
Service Factor	1	Phase	3
Efficiency	91.2 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180M 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 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	712 mm	Frame Length	328 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000849	Connection Drawing	8442000085

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### Model No. SCA18P2A1131GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF at	t load	ł	PF	at lo	bad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	18.5	25	33.7	1469	121.22	IE2	-	91.2	91.2	91.7	0.87	0.83	0.73	6.2	2.2	2.7
Motor type SCA					Degree of protection							IP 55						
Enclosur	•			TEFC						Mounting type						IM B35		
Frame M	laterial	I			Cast Ire	on			Coc	Cooling method						IC 411		
Frame siz	ze				180N	1			Mo	Motor weight - approx.						201		kg
Duty					S1				Gro	Gross weight - approx.						221		kg
Voltage v	variatio	on *			± 10%	Ď			Mo	Motor inertia						0.1433		kgm <sup>2</sup>
Frequend	cy varia	ation *	± 5%					Loa	Load inertia					Custo	Customer to Provide			
Combine	ed varia	ation *		10%					Vib	Vibration level						2.2		mm/s
Design					Ν				Noi	Noise level ( 1meter distance from motor)					)	66		dB(A)
Service fa	actor			1.0					No.	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 resistance)	80 [ Class B ]	к	LR withstand time (hot/cold)	20/10		
Altitude above sea level	1000	meter	Direction of rotation	<b>Bi-directional</b>		
Hazardous area classification	NA		Standard rotation	Clockwise form DE		
Zone classification	NA		Paint shade	RAL 5014		
Gas group	NA		Accessories			
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	6311-2Z / 6211-2Z		Terminal box position	TOP		
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 35mm²/2 X M32 x 1.5		
Type of grease	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<sub>K</sub>/T<sub>N</sub> - 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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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	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

#### Motor Load Data

Motor Speed Torque Data

r/min

А

ри

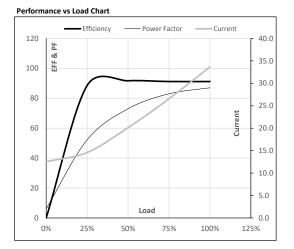
Load Point

Speed

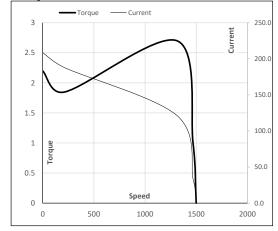
Current

Torque

A 12.5	14.0				
	14.6	20.1	26.6	33.7	
m 0.0	29.8	59.9	90.4	121.2	
in 1500	1493	1485	1477	1469	
% 0.0	88.5	91.7	91.2	91.2	
% 6.1	52.2	73.0	83.0	87.0	
	in 1500 % 0.0	in 1500 1493 % 0.0 88.5	in 1500 1493 1485 % 0.0 88.5 91.7	in 1500 1493 1485 1477 % 0.0 88.5 91.7 91.2	in 1500 1493 1485 1477 1469 % 0.0 88.5 91.7 91.2 91.2



### Starting Characteristics Chart



P-Up

214

187.8

1.8

LR

0

2.2

208.6

BD

1313

121.3

2.7

Rated

1469

33.7

1

NL

1500

12.5 0

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

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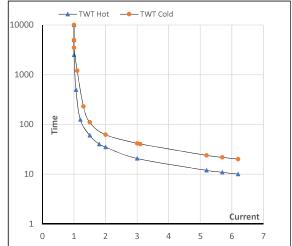
### Model No. SCA18P2A1131GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	Т	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	201

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	35	21	18	14	11	10
TWT Cold	s	10000	62	41	36	30	22	20
Current	pu	1	2	3	4	5	5.5	6.2

### Thermal Characteristics Chart



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

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