PRODUCT INFORMATION PACKET

Model No: SCA18P2A4111GAA001 Catalog No: SCA18P2A4111GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 180M Frame, TEFC



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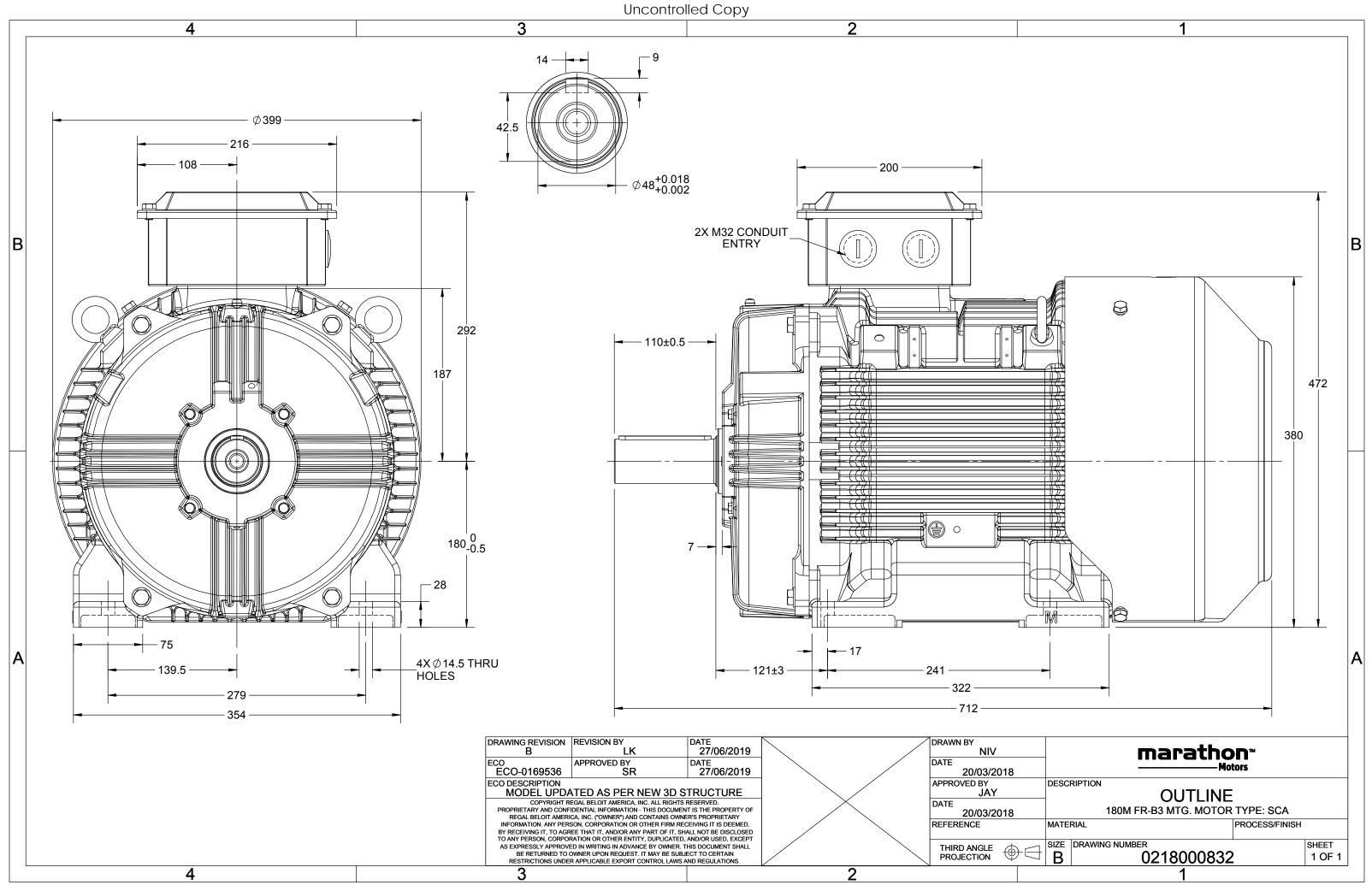
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	35.4 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
Thermal Protection	No Protection	Ambient Temperature	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	B3	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	0218000832	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	k	PF	at lo	ad	I_A/I_N	T_A/T_N	Τ _κ /Τ _Ν
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	18.5	25	35.4	1469	121.22	IE2	-	91.2	91.2	91.7	0.87	0.83	0.73	6.2	2.2	2.7
Motor typ	e				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC	:			Мо	unting	type					IM B3		
Frame Ma	terial				Cast Ire	on			Coc	ling me	ethod					IC 411		
Frame city					1801	1			Ma		aht an					101		Ŀ

Frame size	180M		Motor weight - approx.	191	kg
Duty	S1		Gross weight - approx.	211	kg
Voltage variation *	± 10%		Motor inertia	0.1433	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	or) 66	dB(A)
Service factor	1.0		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)	10/20	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
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	-	
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	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_{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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30					

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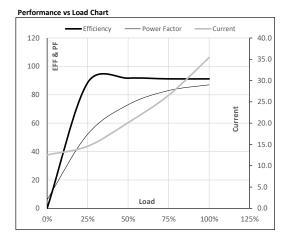
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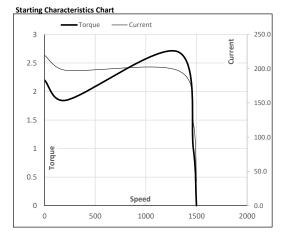
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	ا [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380/660	Δ	50	18.5	25	35.4	1469	12.36	121.22	IE2	40	S1	1000	0.1433	191

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	14.6	20.1	26.6	35.4	
Torque	Nm	0.0	29.8	59.9	90.4	121.2	
Speed	r/min	1500	1493	1485	1477	1469	
Efficiency	%	0.0	88.5	91.7	91.2	91.2	
Power Factor	%	6.1	52.2	73.0	83.0	87.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	214	1313	1469	1500					
Current	А	219.6	197.6	121.3	35.4	12.5					
Torque	pu	2.2	1.8	2.7	1	0					



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

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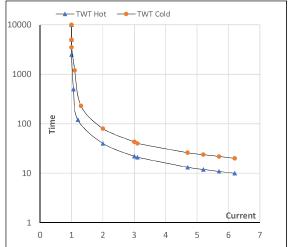
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Enclosure	$U = \Delta / Y$	t	P P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V) Conr	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 38	880/660 Δ	50	18.5	25	35.4	1469	12.36	121.22	IE2	40	S1	1000	0.1433	191

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	40	22	15	12	11	10
TWT Cold	s	10000	80	43	30	25	23	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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