PRODUCT INFORMATION PACKET

Model No: SCA0222A4111GAA001 Catalog No: SCA0222A4111GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 180L Frame, TEFC



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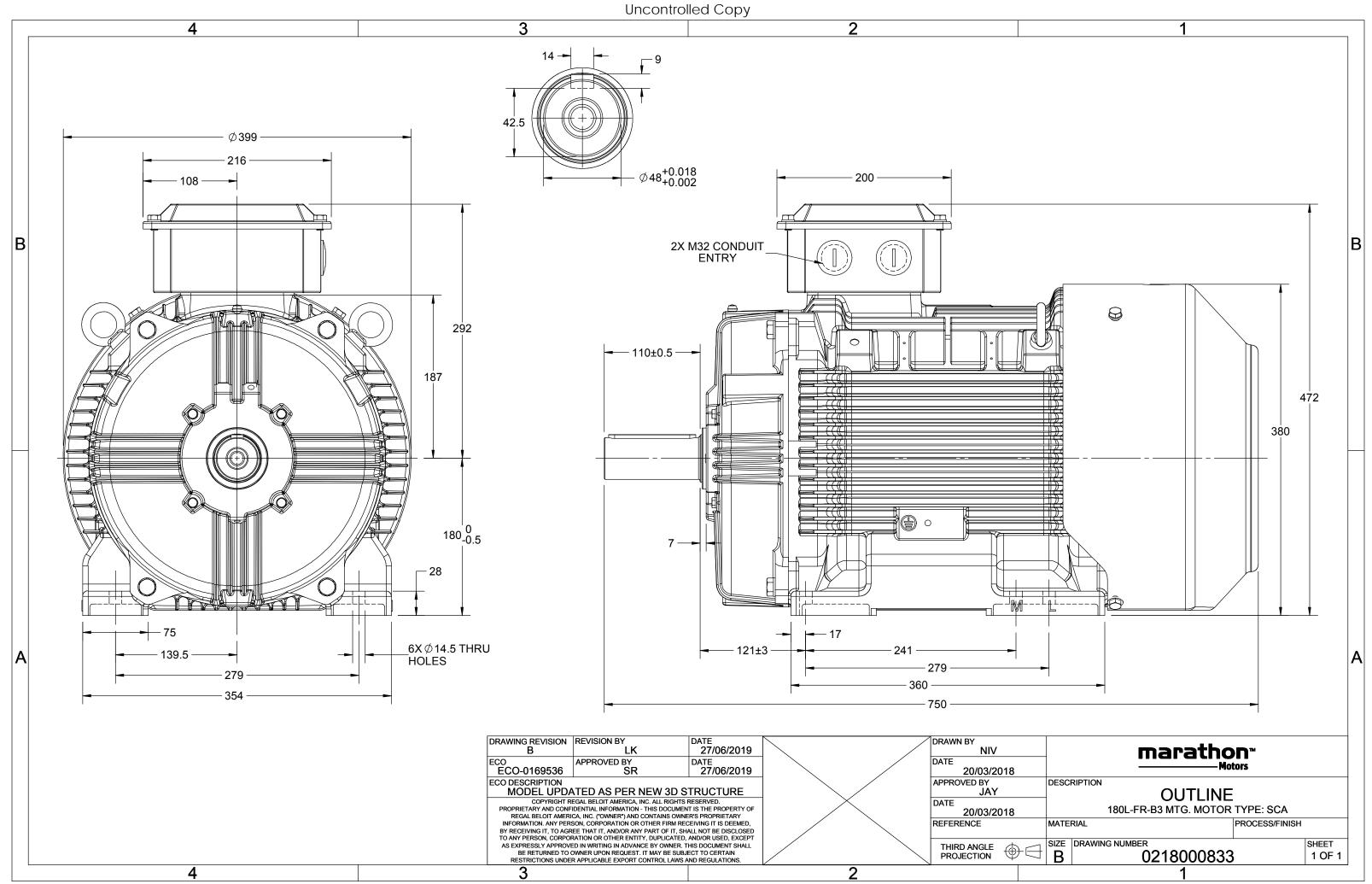
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	42.4 A	Speed	1471 rpm
Service Factor	1	Phase	3
Efficiency	91.6 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Νο	CSA	Νο
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

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	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000833	Connection Drawing	8442000085

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3 of 7





TerraMAX[®]

Model No. SCA0222A4111GAA001

U	Δ/Υ	f	Р	Р	I	n	т	IE	9	% EFF a	t load	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	T _K /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]
380/660	Δ	50	22	30	42.4	1471	145.21	IE2	-	91.6	91.6	91.8	0.86	0.81	0.7	6.8	2.5	3.0
Motor typ	e				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC				Mo	unting	type					IM B3		

Enclosure			in our in B type		
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	180L		Motor weight - approx.	213	kg
Duty	S1		Gross weight - approx.	233	kg
Voltage variation *	± 10%		Motor inertia	0.1694	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)	7/15	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	LR 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 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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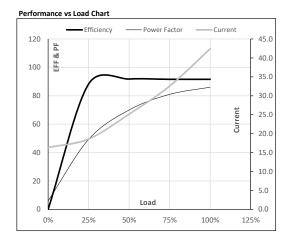
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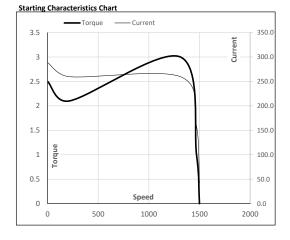
Model No. SCA0222A4111GAA001

Enclosure	U	Δ / Υ	f	P	P		n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[-C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	22	30	42.4	1471	14.81	145.21	IE2	40	S1	1000	0.1694	213

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	16.3	18.6	25.2	32.6	42.4	
Torque	Nm	0.0	35.8	71.9	108.3	145.2	
Speed	r/min	1500	1493	1486	1479	1471	
Efficiency	%	0.0	88.3	91.8	91.6	91.6	
Power Factor	%	5.9	49.3	70.0	81.0	86.0	



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1311	1471	1500
Current	А	288.5	259.7	158.1	42.4	16.3
Torque	pu	2.5	2.1	3.0	1	0



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

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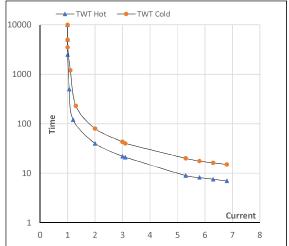
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									1	Р		t	Δ / Y	0	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
213	0.1694	1000	S1	40	IE2	145.21	14.81	1471	42.4	30	22	50	60 Δ	380/6	TEFC
	0.1694	1000	31	40	ILZ	145.21	14.01	14/1	42.4	30		50	50 Δ	380/0	TEFC

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	ا5	LR
TWT Hot	s	10000	40	22	15	10	8	7
TWT Cold	s	10000	80	43	30	25	18	15
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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