PRODUCT INFORMATION PACKET

Model No: SCA0553A4111GAA001 Catalog No: SCA0553A4111GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 280M Frame, TEFC



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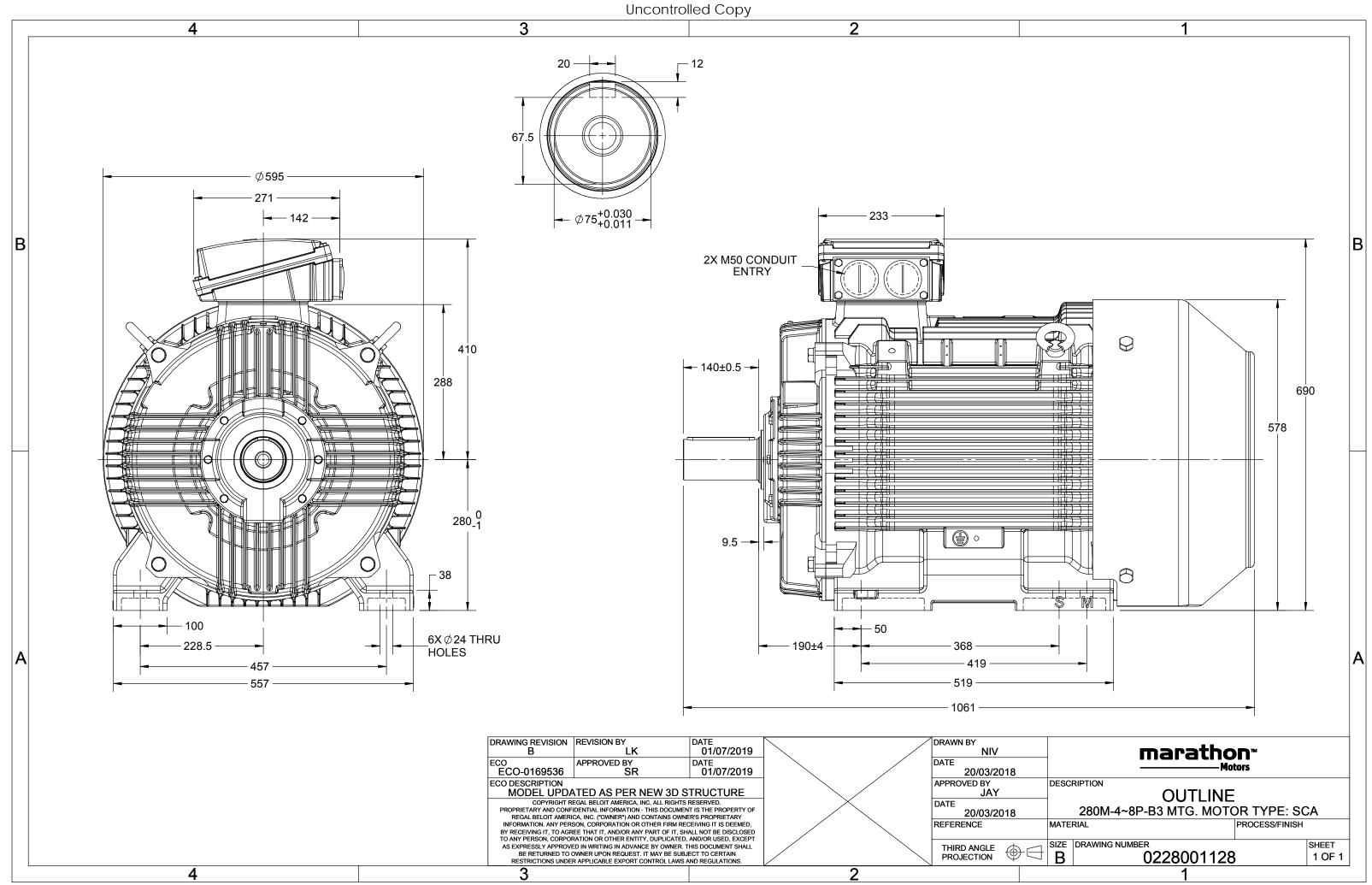
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	104.4 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	93.1 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	280M 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 6317	Ambient Temperature Opp Drive End Bearing Size	40 °C 6317

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1060 mm	Frame Length	550 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0228001128

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T _A /T _N	T _K /T _N
(∨)	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	55	75	104.4	984	542.90	IE2	-	93.1	93.1	93.9	0.86	0.83	0.75	5.7	2.0	2.3

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	280M		Motor weight - approx.	656	kg
Duty	S1		Gross weight - approx.	691	kg
Voltage variation *	± 10%		Motor inertia	2.2355	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	r) 69	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	e) 80 [Class B]	К	LR withstand time (hot/cold)	15/30	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	6317 C3 / 6317 C3		Terminal box position	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 95mm²/2 x M50 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$ - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				



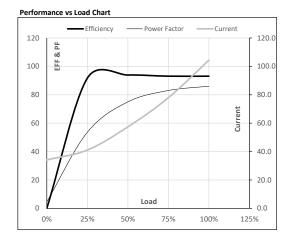
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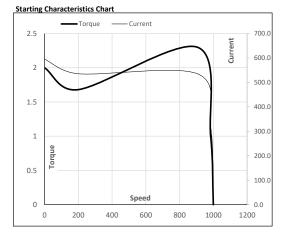
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	ا [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380/660	Δ	50	55	75	104.4	984	55.36	542.90	IE2	40	S1	1000	2.2355	656

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	34.1	41.1	57.4	77.9	104.4	
Torque	Nm	0.0	134.0	269.1	405.3	542.9	
Speed	r/min	1000	996	992	988	984	
Efficiency	%	0.0	91.7	93.9	93.1	93.1	
Power Factor	%	4.6	53.6	75.0	83.0	86.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	200	905	984	1000					
Current	А	594.9	535.4	317.8	104.4	34.1					
Torque	pu	2.0	1.7	2.3	1	0					



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

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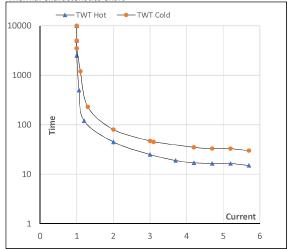
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			P	P	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380,	660 Δ	50	55	75	104.4	984	55.36	542.90	IE2	40	S1	1000	2.2355	656

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	25	18	17	16	15
TWT Cold	s	10000	80	47	37	32	31	30
Current	pu	1	2	3	4	5	5.5	5.7

Thermal Characteristics Chart



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

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