PRODUCT INFORMATION PACKET

Model No: SCA0373A4131GAA001 Catalog No: SCA0373A4131GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 250M Frame, TEFC



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Motors



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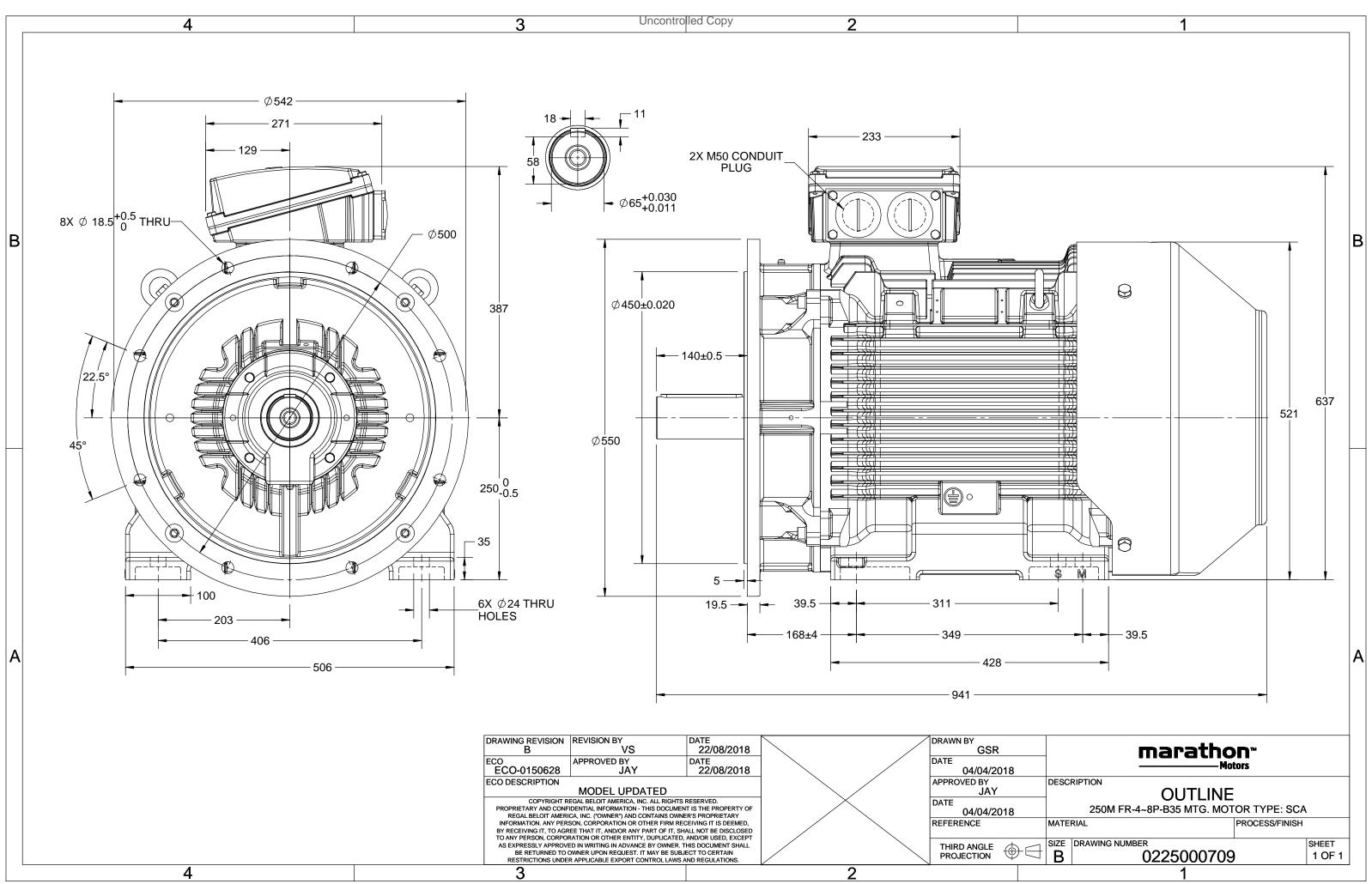
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	ent 72.6 A		987 rpm
Service Factor	1	Phase	3
Efficiency	92.2 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE Yes			
CE	Yes	IP Code	55

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	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0225000709

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U	Δ / Y	f	Р	Р	1	n	т	IE	9	% EFF a	t load	ł	PF	at lo	ad	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	37	50	72.6	987	360.96	IE2	-	92.2	92.2	92.2	0.84	0.79	0.68	6.7	2.3	2.9

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	250M		Motor weight - approx.	480	kg
Duty	S1		Gross weight - approx.	515	kg
Voltage variation *	± 10%		Motor inertia	1.0661	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) 68	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)	12/25	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	6314 C3 / 6314 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 data	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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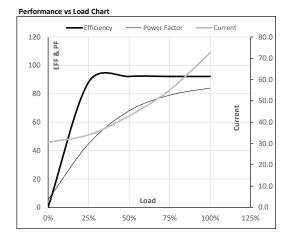
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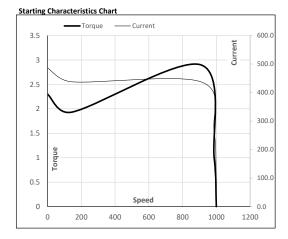
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	37	50	72.6	987	36.81	360.96	IE2	40	S1	1000	1.0661	480

Motor Load Dat	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	30.6	34.1	42.9	55.1	72.6	
Torque	Nm	0.0	89.3	179.2	269.7	361.0	
Speed	r/min	1000	997	994	990	987	
Efficiency	%	0.0	88.2	92.2	92.2	92.2	
Power Factor	%	5.4	44.8	68.0	79.0	84.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	143	908	987	1000					
Current	А	486.3	437.7	263.4	72.6	30.6					
Torque	pu	2.3	1.9	2.9	1	0					



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

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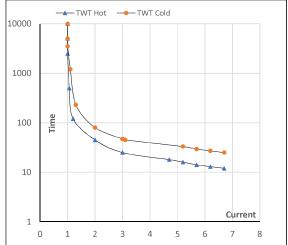
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Enclosure	U	Δ / Y	f	Р	Ρ	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/66	0 Δ	50	37	50	72.6	987	36.81	360.96	IE2	40	S1	1000	1.0661	480

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I_5	LR
TWT Hot	s	10000	45	25	23	20	18	12
TWT Cold	s	10000	80	47	46	40	36	25
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

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