PRODUCT INFORMATION PACKET

Model No: SCA0371A4131GAA001 Catalog No: SCA0371A4131GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 200L Frame, TEFC



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Motors

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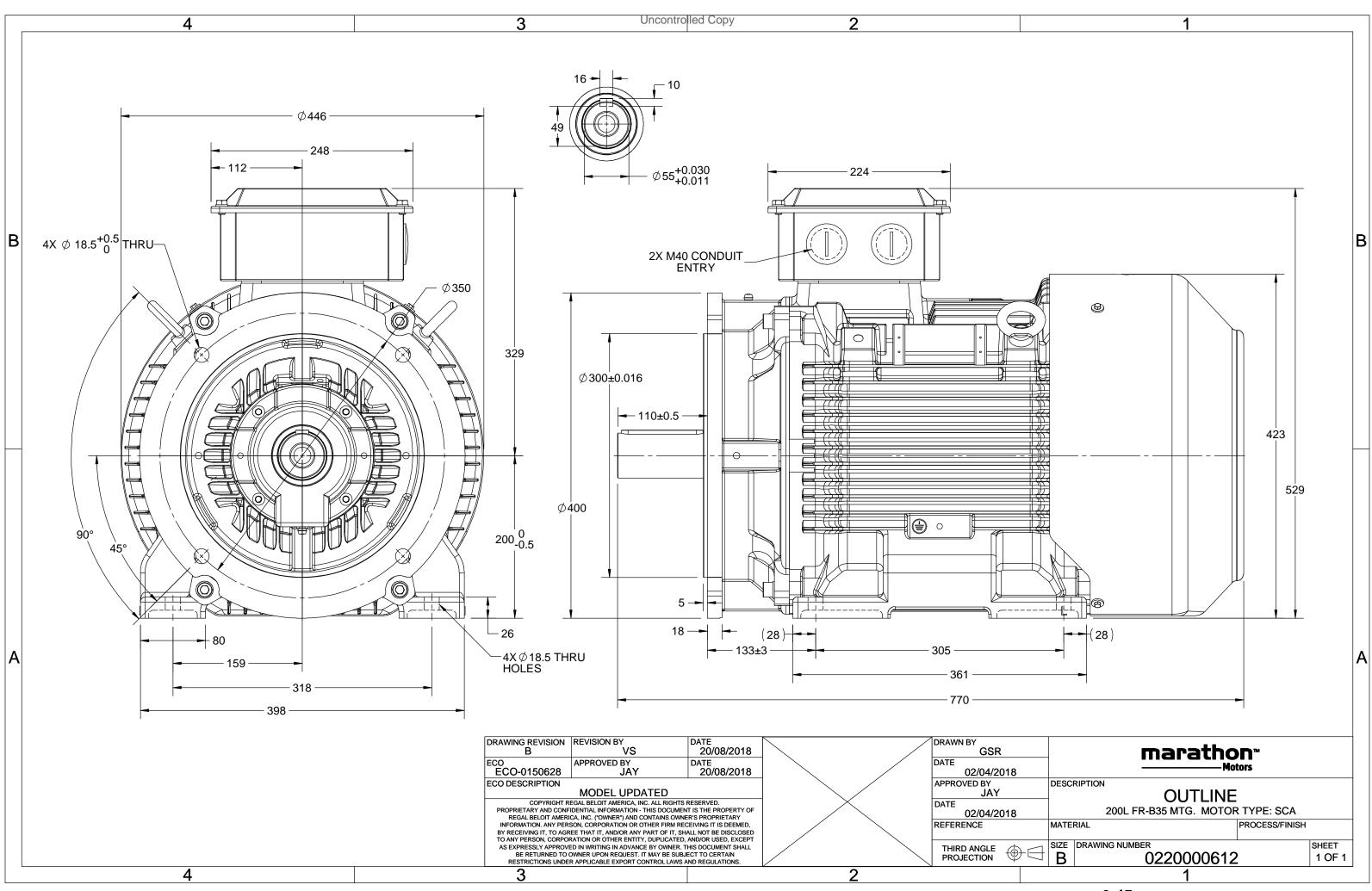
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	67.5 A Speed		2953 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	No
UL CE	No Yes	CSA IP Code	No 55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	770 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000612	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	1	n	т	IE	g	% EFF a	t load	ł	PI	Fat_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	67.5	2953	120.57	IE2	-	92.5	92.5	92.2	0.9	0.88	0.81	6.5	2.0	3.1

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	200L		Motor weight - approx.	284	kg
Duty	S1		Gross weight - approx.	314	kg
Voltage variation *	± 10%		Motor inertia	0.1867	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) 77	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	6312 C3 / 6212 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	.R x 3C x 50mm²/2 x M40 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		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	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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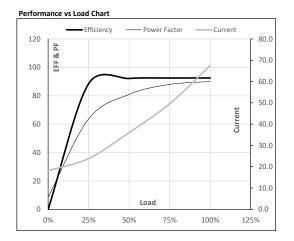
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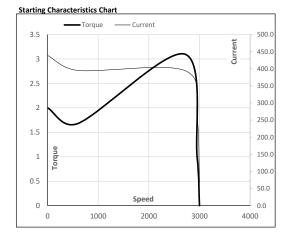
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	284

Motor Load Dat	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.1	23.9	36.1	49.6	67.5	
Torque	Nm	0.0	29.8	59.8	90.0	120.6	
Speed	r/min	3000	2989	2978	2966	2953	
Efficiency	%	0.0	88.5	92.2	92.5	92.5	
Power Factor	%	8.6	63.7	81.0	88.0	90.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2705	2953	3000					
Current	А	438.9	395.0	255.9	67.5	18.1					
Torque	pu	2.0	1.7	3.1	1	0					



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

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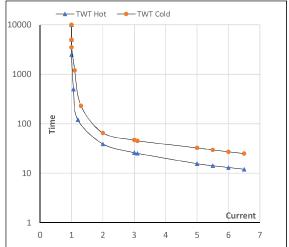
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Enclosure	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 38	80/660	Δ	50	37	50	67.5	2953	12.29	120.57	IE2	40	S1	1000	0.1867	284

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	39	26	20	16	14	12
TWT Cold	s	10000	65	47	40	33	30	25
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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