PRODUCT INFORMATION PACKET



Model No: SCA0302A4121GAA001 Catalog No: SCA0302A4121GAA001

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 200L Frame, TEFC



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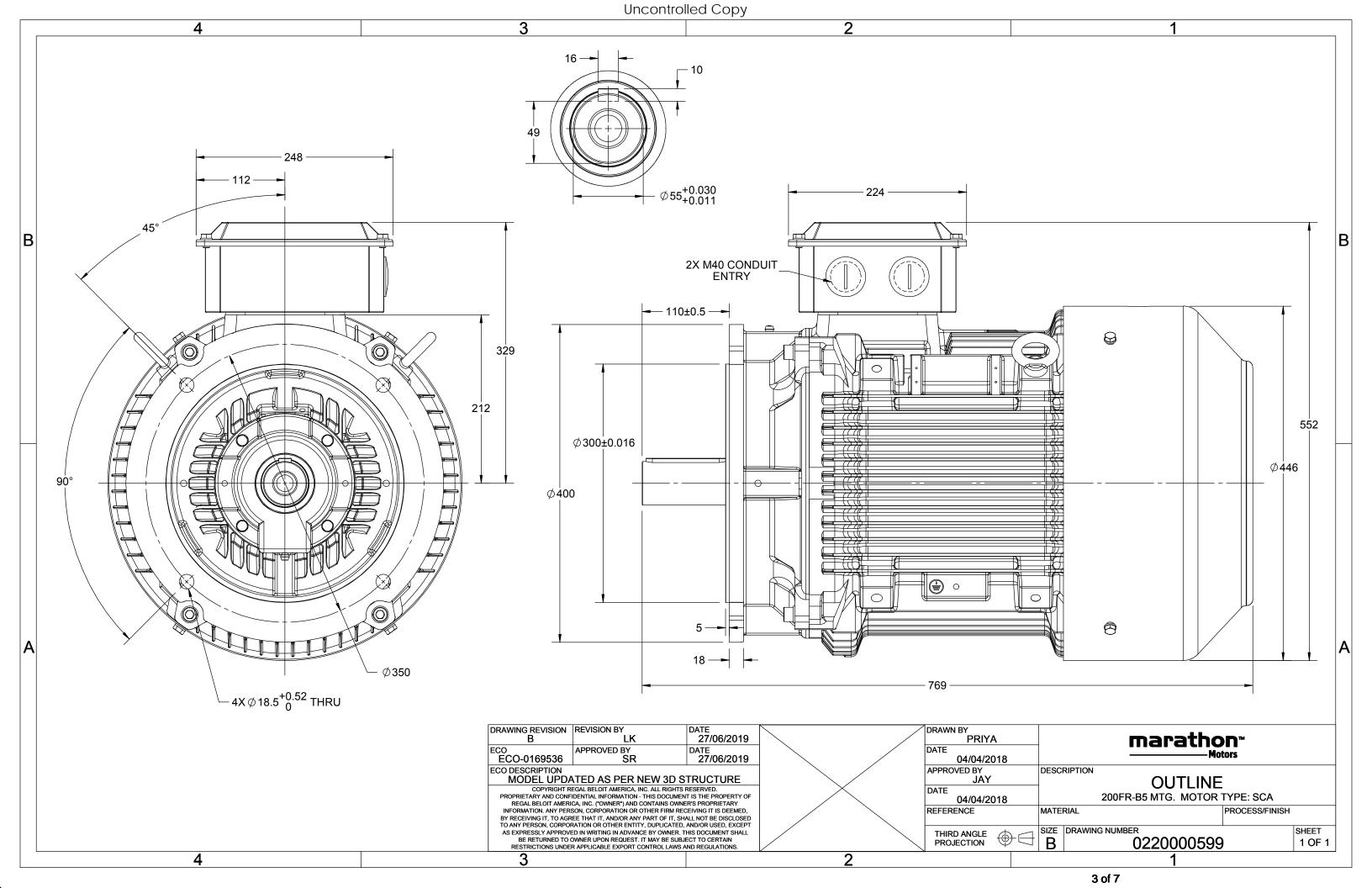
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	58.1 A	Speed	1471 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.85
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
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	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000599

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOM	ENTRIC TOLE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No.	SCA0302A4121GAA001
Middel No.	3CAU3UZA41Z1UAAUU1

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	t	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	30	40	58.1	1471	193.61	IE2	-	92.3	92.3	93	0.85	0.82	0.72	6.2	2.2	2.8

SCA	
TEFC	
Cast Iron	
200L	
S1	
± 10%	
± 5%	
10%	
N	
1.0	
F	
-20 to +40	°C
80 [Class B]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
6312 C3 / 6212 C3	
Regreasable	
CHEVRON SRI-2 or Equivalent	
	TEFC Cast Iron 200L S1 ± 10% ± 59% 10% N 1.0 F -20 to +40 80 [Class B] 1000 NA NA NA NA Aluminum Die cast Anti-friction ball 6312 C3 / 6212 C3 Regreasable

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	280	kg
Gross weight - approx.	310	kg
Motor inertia	0.2616	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from motor)	66	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	12/25	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1R x	3C x 50mm ² /2 x M40 x 1.5	
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

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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

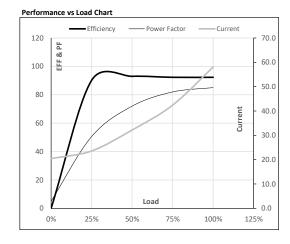




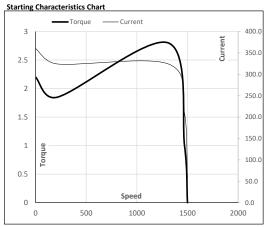
Model No. SCA0302A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	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	30	40	58.1	1471	19.74	193.61	IE2	40	S1	1000	0.2616	280

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	20.4	23.6	32.2	42.4	58.1	
Torque	Nm	0.0	47.7	95.8	144.4	193.6	
Speed	r/min	1500	1493	1487	1480	1471	
Efficiency	%	0.0	90.2	93.0	92.3	92.3	
Power Factor	%	5.0	50.6	72.0	82.0	85.0	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1311	1471	1500	
Current	Α	360.2	324.2	209.0	58.1	20.4	
Torque	pu	2.2	1.8	2.8	1	0	



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

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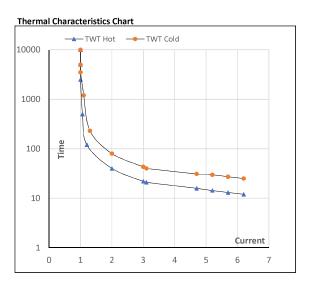




Model No. SCA0302A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	50 Δ	50	30	40	58.1	1471	19.74	193.61	IE2	40	S1	1000	0.2616	280

Motor Speed Torque Data										
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR		
TWT Hot	s	10000	40	22	17	15	13	12		
TWT Cold	s	10000	80	43	35	30	28	25		
Current	pu	1	2	3	4	5	5.5	6.2		



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

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