PRODUCT INFORMATION PACKET

Model No: SCA3152A1111GAA001 Catalog No: SCA3152A1111GAA001 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355L Frame, TEFC



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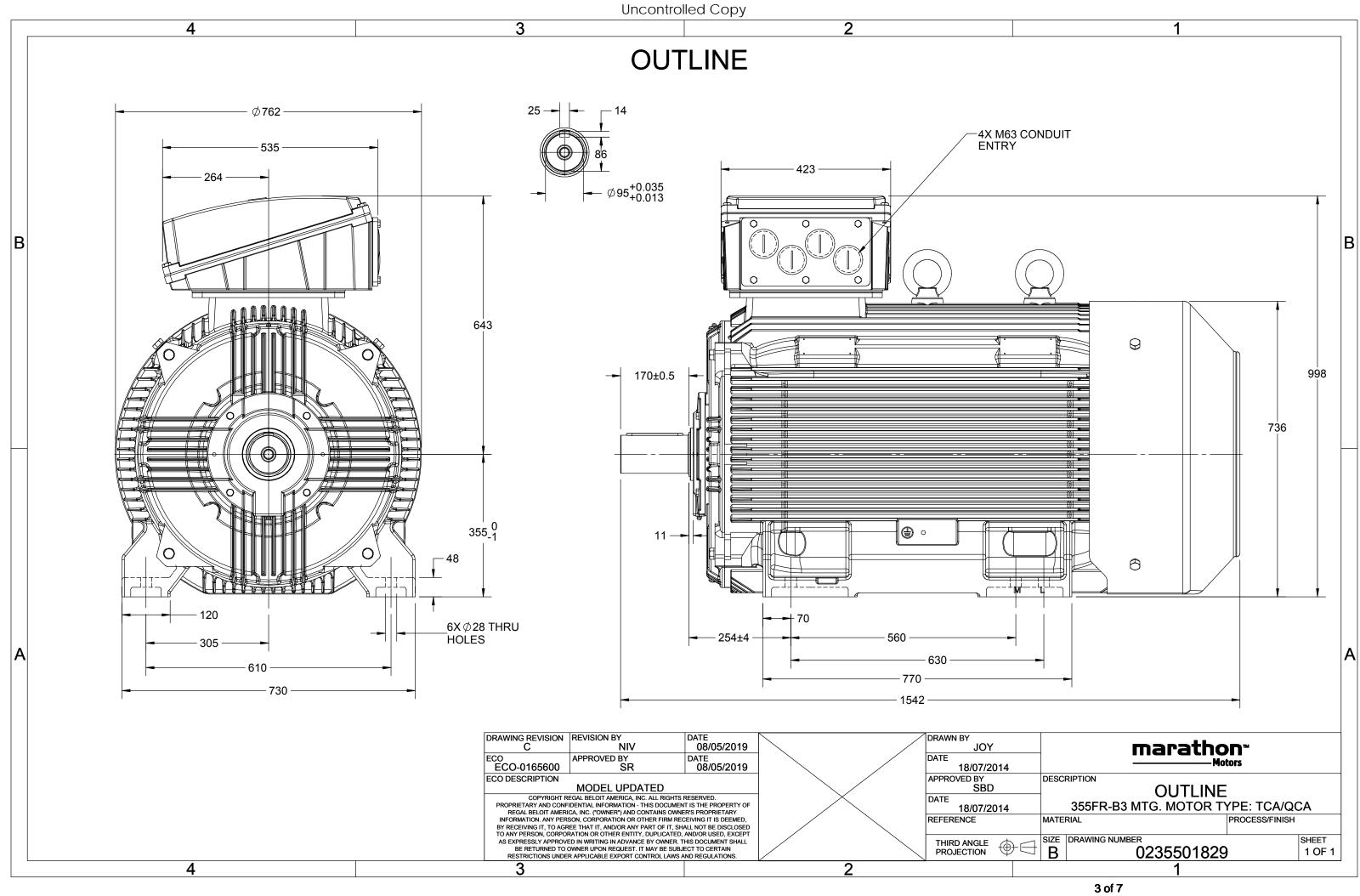
Nameplate Specifications

Output HP	425 Hp	Output KW	315.0 kW
Frequency	50 Hz	Voltage	400 V
Current	537.2 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	2551	Enclosure	Totally Enclosed Fan Cooled
Flame	355L	LICIOSULE	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501829	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF at	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	315	425	537.2	1489	2032.40	IE2	-	95.1	95.1	96.1	0.89	0.88	0.83	6.2	1.8	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	355L		Motor weight - approx.	1813	kg
Duty	S1		Gross weight - approx.	1858	kg
Voltage variation *	± 10%		Motor inertia	9.2132	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 82	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 resistan	ice) 80 [Class B]	К	LR withstand time (hot/cold)	30/15	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	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6322 C3 / 6322 C3		Terminal box position	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size	LR x 3C x 300mm²/4 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

T_K/T_N - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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	Efficiency Europe China India Aus/Nz Brazil Global IEC									
Standards	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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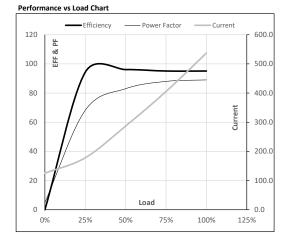
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	315	425	537.2	1489	207.25	2032.40	IE2	40	S1	1000	9.2132	1813

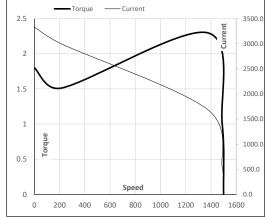
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	125.2	178.1	287.0	405.3	537.2	
Torque	Nm	0.0	505.3	1012.3	1521.2	2032.4	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	94.3	96.1	95.1	95.1	
Power Factor	%	4.9	68.2	83.0	88.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1370	1489	1500	
Current	А	3330.5	2997.5	1696.7	537.2	125.2	
Torque	pu	1.8	1.5	2.3	1	0	





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

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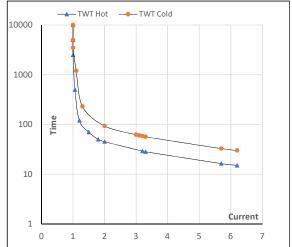
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	315	425	537.2	1489	207.24	2032.40	IE2	40	S1	1000	9.2132	1813

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	s	10000	45	36	27	25	20	15
TWT Cold	S	10000	60	59	50	45	40	30
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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