PRODUCT INFORMATION PACKET

Model No: SCA3152A1141GAA001 Catalog No: SCA3152A1141GAA001 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355L Frame, TEFC



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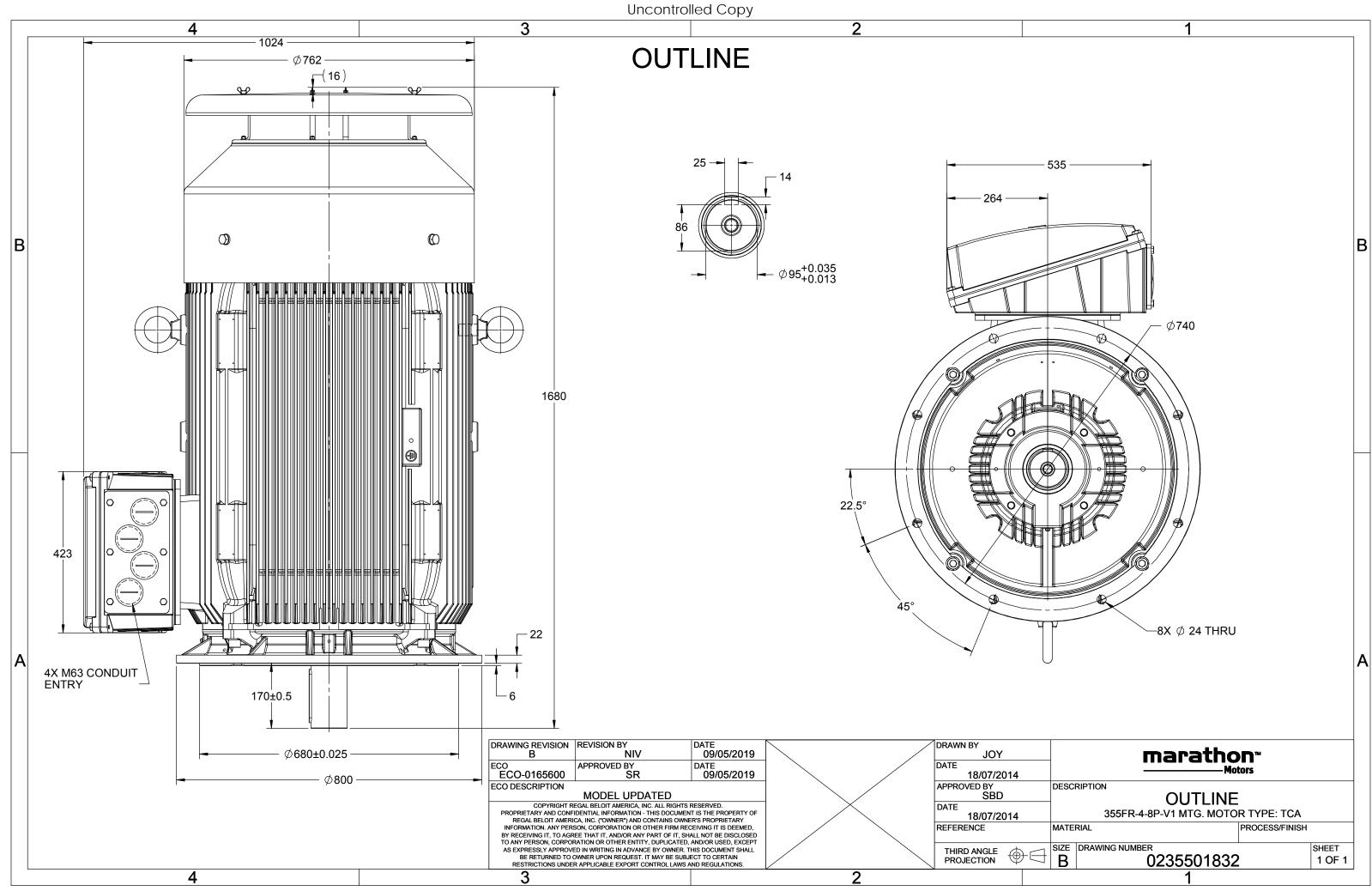
Nameplate Specifications

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	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1680 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501832	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	% EFF a	t load	d d	PF	at lo	bad	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	
Matari					SCA				Der	waa af	evete eti					IP 55			
Motor 1 Enclosu	<i>'</i> ·				TEFC					unting	protecti	on				IM V1			
	Material				Cast Irc	n				oling me					IC 411				
Frame					355L					•	ght - ap	nrov				1808		kg	
Duty	SIZE				555L S1						ght - app					1853		kg	
,	e variatio	n *			± 10%							10X.	9.2132				kgm ²		
	ncy varia				± 5%				Motor inertia Load inertia						Customer to Provide			Kgill	
	ned varia				10%				Load inertia Vibration level						0451	2.8		mm/s	
Design					N			Noise level (1meter distance from moto					n motor)	82		dB(A)		
Service	factor				1.0						ts hot/c				2/3/4			ab(, ,	
	on class				F					rting m		0.0, 290	any opre		DOL				
	nt tempe				-20 to +	40		°C		e of co					Direct				
			esistanc	e)	80 [Class	B]		К		LR withstand time (hot/cold)						30/15			
	e above	• •		,	1000			meter			of rotatio	• •	,		B	Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	Standard rotation						ckwise form [DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014			
	Gas gro	up			NA				Acc	essorie	S								
	Temper	ature c	lass		NA					Ace	cessory -	- 1				PTC 150°C			
Rotor ty	ype			Alu	uminum D	ie cast				Ace	cessory -	- 2				-			
Bearing	g type			А	nti-frictio	n ball				Ace	cessory -	- 3				-			
DE / NC	DE beari	ng		63	22 C3 / 6	322 C3			Ter	minal b	ox posit	ion				TOP			
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x N	Л63 x 1.5		
Type of	grease			CHEVRC	ON SRI-2 o	r Equiva	ent		Aux	ciliary te	erminal	box			Avail	able on Requ	lest		

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\text{K}}/T_{\text{N}}$ - 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

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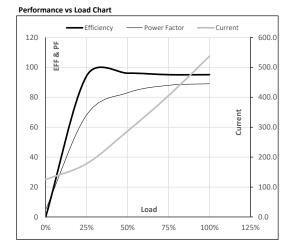


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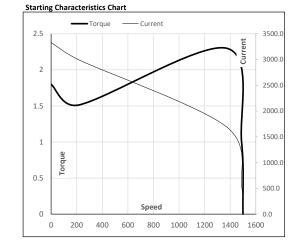
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	315	425	537.2	1489	207.25	2032.40	IE2	40	S1	1000	9.2132	1808

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	125.2	178.1	287.0	405.3	537.2	
Nm	0.0	505.3	1012.3	1521.2	2032.4	
r/min	1500	1497	1495	1492	1489	
%	0.0	94.3	96.1	95.1	95.1	
%	4.9	68.2	83.0	88.0	89.0	
	Nm r/min %	A 125.2 Nm 0.0 r/min 1500 % 0.0	A 125.2 178.1 Nm 0.0 505.3 r/min 1500 1497 % 0.0 94.3	A 125.2 178.1 287.0 Nm 0.0 505.3 1012.3 r/min 1500 1497 1495 % 0.0 94.3 96.1	A 125.2 178.1 287.0 405.3 Nm 0.0 505.3 1012.3 1521.2 r/min 1500 1497 1495 1492 % 0.0 94.3 96.1 95.1	A 125.2 178.1 287.0 405.3 537.2 Nm 0.0 505.3 1012.3 1521.2 2032.4 r/min 1500 1497 1495 1492 1489 % 0.0 94.3 96.1 95.1 95.1



Motor Speed	l Torque Da	ita				
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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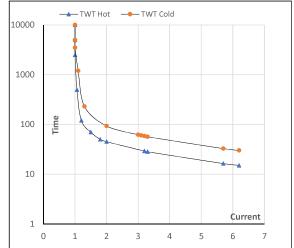
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	315	425	537.2	1489	207.24	2032.40	IE2	40	S1	1000	9.2132	1808

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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