### **PRODUCT INFORMATION PACKET**

Model No: SCA3552A4141GAA001 Catalog No: SCA3552A4141GAA001 TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 355L Frame, TEFC



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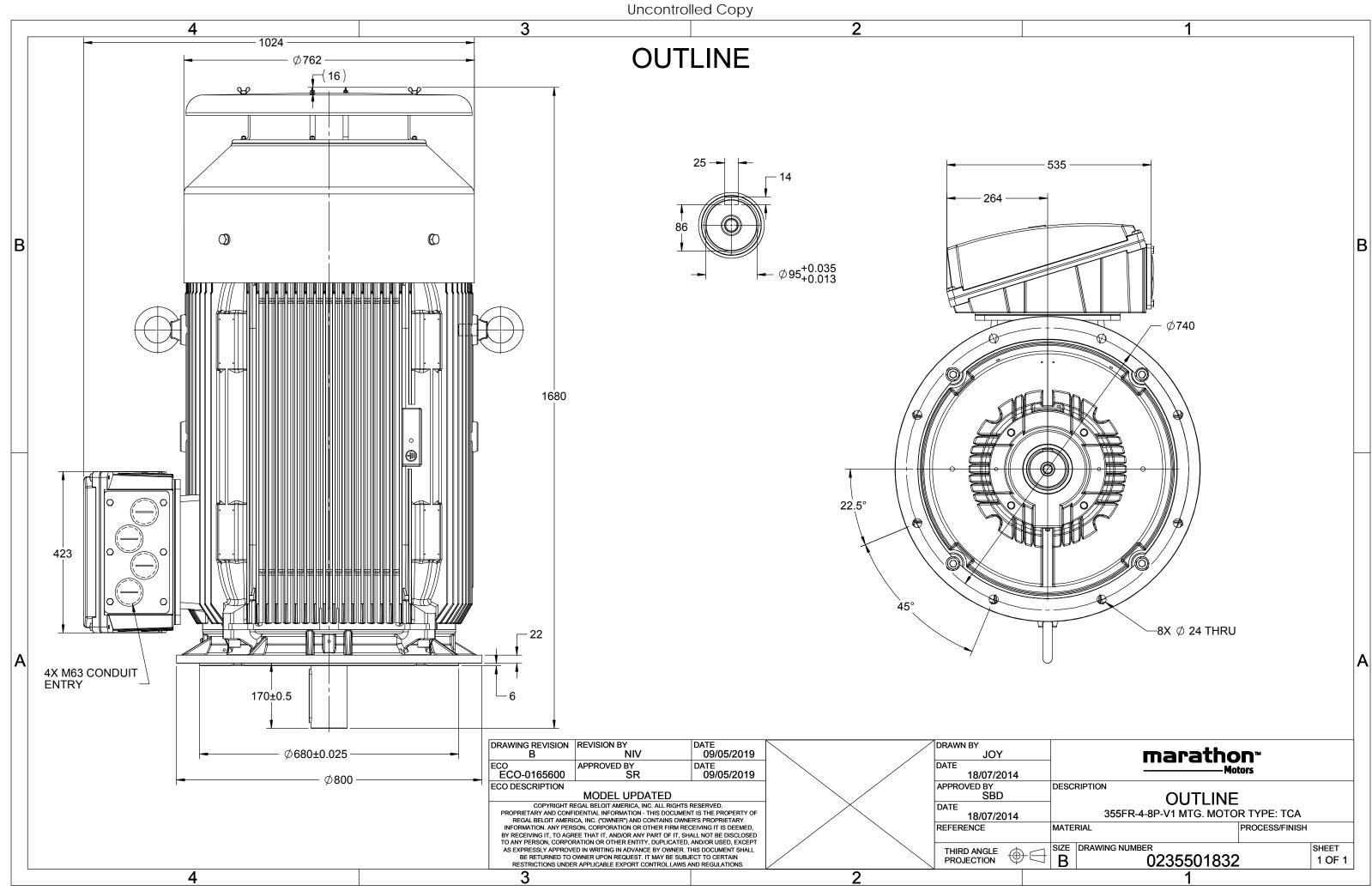
#### Nameplate Specifications

Output HP	475 Hp	Output KW	355.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	630.2 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 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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1R x 3C x 300mm²/4 x M63 x 1.5

Available on Request

### Model No. SCA3552A4141GAA001

$U \Delta / Y f$	Р	Р			т	IE	0			4	Dr	ot la	ad	1/1	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>
	-	-	1	n	-				: load			at lo		I <sub>A</sub> /I <sub>N</sub>		
		[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	-	1/2FL	FL	3/4FL		[pu]	[pu]	[pu]
380/660 Δ 50	355	475	630.2	1490	2269.8	IE2	-	95.1	95.1	96.2	0.9	0.88	0.83	6.9	2.1	2.5
Motor type			SCA				Deg	ree of p	protecti	on				IP 55		
Enclosure			TEFC				Мо	unting t	уре					IM V1		
Frame Material			Cast Iro	n			Cooling method							IC 411		
Frame size			355L				Motor weight - approx.							1973		kg
Duty			S1				Gross weight - approx.								kg	
Voltage variation *			± 10%				Motor inertia							10.9453		kgm <sup>2</sup>
Frequency variation *			± 5%				Load inertia					Custo	omer to Provi	de		
Combined variation *			10%				Vibr	ation le	evel					2.8		mm/s
Design			Ν				Nois	se level	(1mete	er distar	nce fror	n motor	82			dB(A)
Service factor			1.0				No.	of start	s hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class			F				Star	ting me	ethod					DOL		
Ambient temperature			-20 to +4	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by resis	stance)	8	0 [ Class	B]		K	LR v	vithstar	nd time	(hot/co	ld)			30/15		S
Altitude above sea level			1000			meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardous area classificat	tion		NA				Star	ndard ro	otation				Cloc	ckwise form D	E	
Zone classificat	tion		NA				Pair	nt shade	9					RAL 5014		
Gas group			NA				Acc	essories	5							
Temperature c	lass		NA					Acc	essory -	· 1				-		
Rotor type		Alum	ninum D	ie cast			Accessory - 2						-			
Bearing type		Ant	ti-frictio	n ball				Acc	essory -	- 3				-		
DE / NDE bearing		6322	2 C3 / 63	322 C3			Terr		ox posit					ТОР		
5									•							

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

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

Maximum cable size/conduit size

Auxiliary terminal box

T<sub>A</sub>/T<sub>N</sub> - LOCKed Rotor Torque / F

Lubrication method

Type of grease

### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Regreasable

CHEVRON SRI-2 or Equivalent

\* 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	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



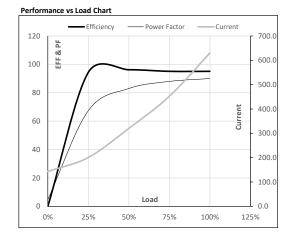
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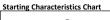
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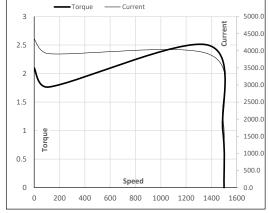
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	355	475	630.2	1490	231.46	2269.81	IE2	40	S1	1000	10.9453	1973

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	143.1	200.9	320.2	452.2	630.2	
Torque	Nm	0.0	564.6	1131.0	1699.3	2269.8	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	94.4	96.2	95.1	95.1	
Power Factor	%	4.7	67.4	83.0	88.0	90.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	115	1371	1490	1500							
Current	А	4348.2	3913.4	2050.9	630.2	143.1							
Torque	pu	2.1	1.8	2.5	1	0							





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

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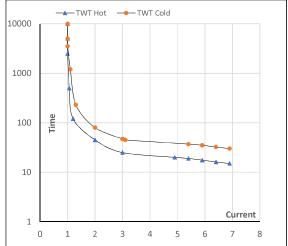
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/66	50 Δ	50	355	475	630.2	1490	231.45	2269.81	IE2	40	S1	1000	10.9453	1973

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	23	19	18	15
TWT Cold	s	10000	80	47	46	37	36	30
Current	pu	1	2	3	4	5	5.5	6.9

Thermal Characteristics Chart



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

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