PRODUCT INFORMATION PACKET

Model No: SCA7P53A4141GAA001 Catalog No: SCA7P53A4141GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 160M Frame, TEFC



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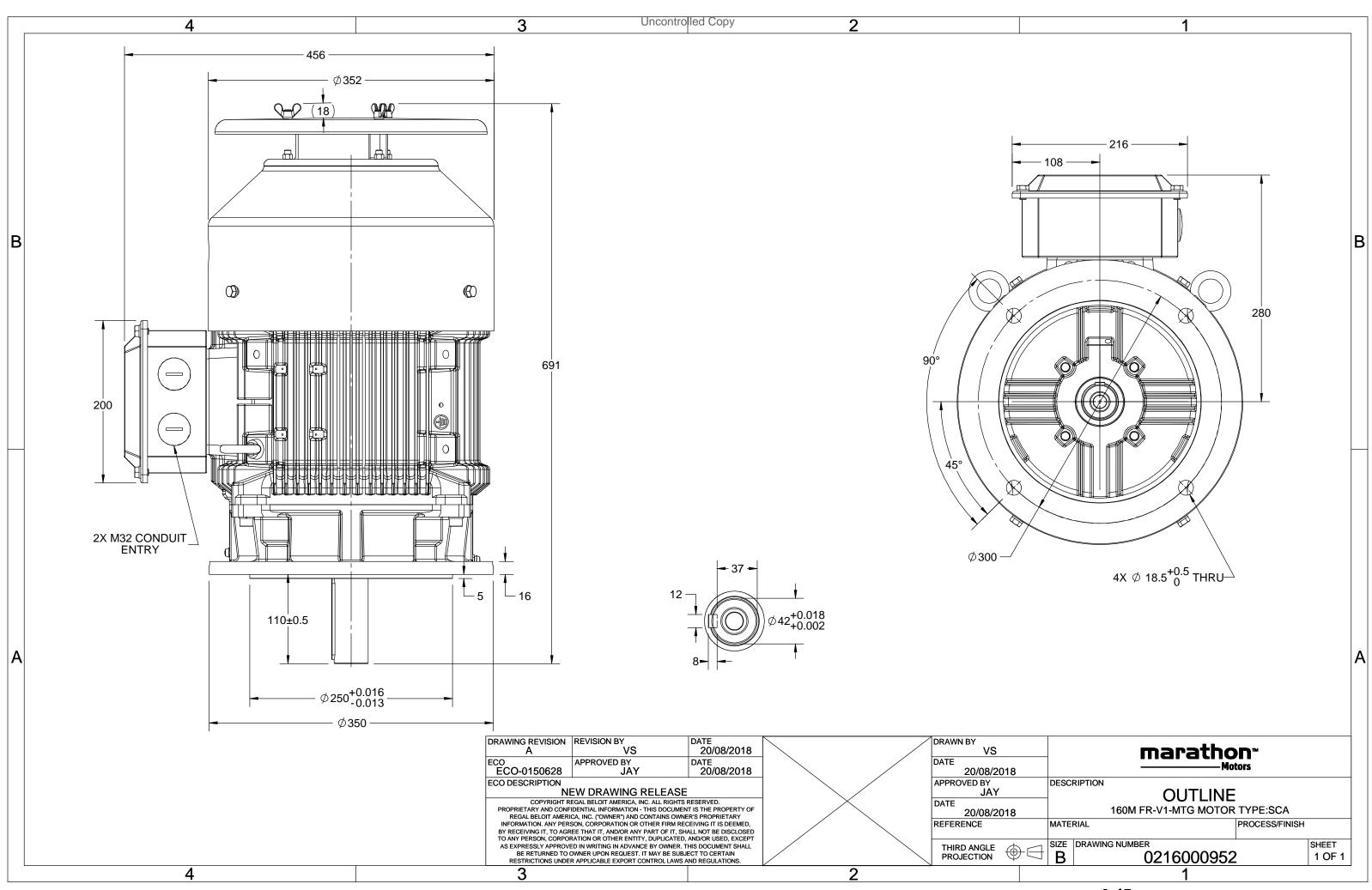
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	17.0 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	87.2 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan 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 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	691 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000952

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3 of 7





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Model No. SCA7P53A4141GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF at	:load	ł	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]
380/660	Δ	50	7.5	10	17.0	970	73.8	IE2	-	87.2	87.2	86.2	0.77	0.73	0.63	5.9	2.4	3.6
					664				-							10.55		
Motor typ					SCA				Degree of protection							IP 55		
Enclosure					TEFC					Mounting type						IM V1 IC 411		
Frame Ma					Cast Ir					ling me								
Frame siz	e				160N	1			Mo	tor weig	ght - ap	prox.				124 144		kg
Duty					S1				Gro	ss weig	ht - app	rox.				kg		
Voltage v	ariatior	ז *			± 10%	6			Mo	tor iner	tia					0.1140		kgm ²
Frequenc	y variat	tion *			± 5%				Loa	d inertia	a				Customer to Provide 2.2			
Combined	d variat	ion *			10%				Vibration level							2.2		mm/s
Design					Ν				Noi	Noise level (1meter distance from motor						65		dB(A)
Service fa	octor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			
Insulation	n class				F				Star	Starting method					DOL			
Ambient	temper	ature			-20 to +	40		°C	Тур	e of cou	upling				Direct			
Temperat	ture rise	e (by re	esistance	2)	80 [Clas	s B]		К	LR v	vithstar	nd time	(hot/co	ld)			15/30		s
Altitude a	above s	ea leve	1		1000)		meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardou	is area	classifi	cation		NA				Star	ndard ro	otation				Cloc	ckwise form I	DE	
	Zone	classifi	cation		NA				Pair	nt shade	9					RAL 5014		
	Gas gi	roup			NA				Acc	essories	5							
	Temp	erature	e class		NA					Acc	essory	- 1			-			
Rotor typ	e			Alu	ıminum [Die cast				Acc	essory	- 2			-			
Bearing ty				А	nti-frictic	n ball					essory				-			
DE / NDE		g		630)9-2Z / 6	5209-2Z			Terr		ox posit				TOP			
Lubricatio		0		G	reased fo	or life					•	ze/cond	uit size	1R	1R x 3C x 35mm ² /2 X M32 x 1.5			
Type of g					NA						rminal				Avail	able on Requ	uest	
///8										,								

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - 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	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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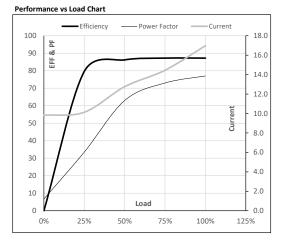
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Model No. SCA7P53A4141GAA001

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	7.5	10	17.0	970	7.53	73.80	IE2	40	S1	1000	0.1140	124
1															

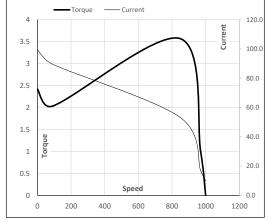
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	9.8	10.1	12.8	14.4	17.0	
Torque	Nm	0.0	18.0	36.1	54.5	73.8	
Speed	r/min	1000	994	988	982	970	
Efficiency	%	0.0	79.6	86.2	87.2	87.2	
Power Factor	%	6.7	33.5	63.0	73.0	77.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	847	970	1000	
Current	А	99.5	89.5	53.4	17.0	9.8	
Torque	pu	2.4	2.0	3.6	1	0	

Starting Characteristics Chart



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

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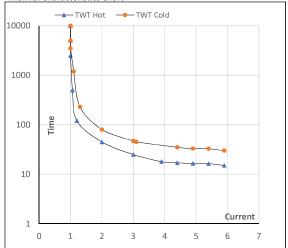
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Enclosure	$U = \Delta / Y$	т	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
((V) Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 38	30/660 Δ	50	7.5	10	17	970	7.53	73.80	IE2	40	S1	1000	0.1140	124

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	45	25	18	17	16	15
TWT Cold	s	10000	80	47	45	33	32	30
Current	pu	1	2	3	4	5	5.5	5.9

Thermal Characteristics Chart



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

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