PRODUCT INFORMATION PACKET

Model No: SCA18P1A1141GAA001 Catalog No: SCA18P1A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160L Frame, TEFC



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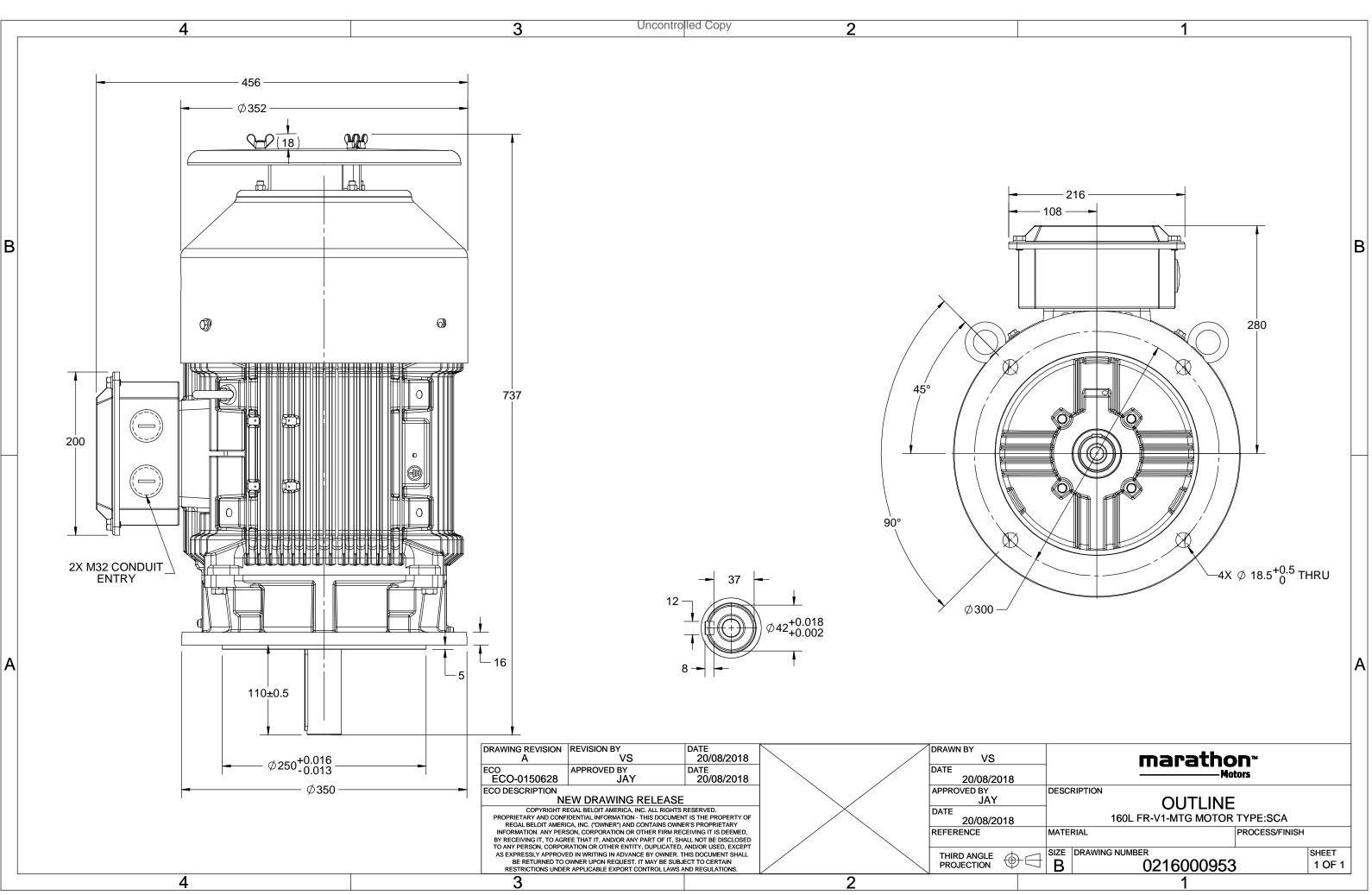
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	32.6 A	Speed	2940 rpm
Service Factor	1	Phase	3
Efficiency	90.9 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	Νο
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	737 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000953

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TerraMAX[®]

Model No. SCA18P1A1141GAA001

(V) Cor 400 Δ Motor type Enclosure	Δ 5	Hz] 50	[kW] 18.5	[hp] 25	[A] 32.6	[RPM] 2940	[Nm] 60.10	Class IE2	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
Motor type		50	18.5	25	32.6	2940	60.10	IE2										LL]	
<i>,</i> ,	2								-	90.9	90.9	89.8	0.9	0.9	0.86	7.5	2.9	3.1	
<i>,</i> ,	2																		
<i>,</i> ,	2																		
<i>,</i> ,	2																		
<i>,</i> ,	9																		
Enclosure					SCA					gree of p		on				IP 55			
					TEFC					unting t						IM V1			
Frame Mate	erial				Cast Iro					oling me						IC 411			
Frame size				160L Motor weight - approx. 154 S1 Gross weight - approx. 174 ± 10% Motor inertia 0.0650									kg						
Duty									Motor inertia 0.0650							kg			
Voltage var	riation *	*															kgm ²		
Frequency v	variatio	on *			± 5%				Load inertia Vibration level						Cust	omer to Provid	e		
Combined v	variatio	n *			10%				Vib	ration le	evel					2.2		mm/s	
Design					N			Noise lev			(1mete	er distar	ce fron	n motor)	74		dB(A)	
Service fact	tor				1.0				No.	of start	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulation c	class				F				Sta	rting me	ethod					DOL			
Ambient ter	mperat	ture			-20 to +	40		°C	Тур	e of cou	upling				Direct				
Temperatur	re rise ((by re	esistance	e)	80 [Clas	5 B]		К	LR	withstar	nd time	(hot/co	d)			10/6		S	
Altitude abo	ove sea	a leve	1		1000			meter	Dire	ection o	f rotatio	on			B	Bi-directional			
Hazardous a	area cla	assifio	cation		NA				Sta	ndard ro	otation				Clo	ckwise form DE			
Zon	ne classi	ificati	ion		NA				Pai	nt shade	e					RAL 5014			
Gas	group				NA				Acc	essories	S								
Terr	nperatu	ure cl	ass		NA					Acc	essory -	· 1				PTC 150°C			
Rotor type				Al	uminum E)ie cast				Acc	essory -	- 2				-			
Bearing type	e			ļ	Anti-frictio	n ball				Accessory - 3						-			
DE / NDE be	earing			63	09-2Z / 6	209-2Z			Ter	Terminal box position						ТОР			
Lubrication	metho	bd		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M3	2 x 1.5		
Type of grea	ase				NA				Aux	kiliary te	erminal l	хос			Avail	able on Reques	t		

 $I_{\text{A}}/I_{\text{N}}$ - 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

* 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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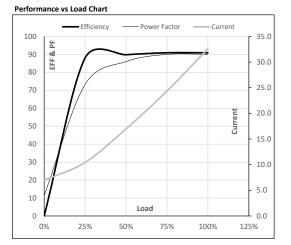


Model No. SCA18P1A1141GAA001

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	18.5	25	32.6	2940	6.13	60.10	IE2	40	S1	1000	0.0650	154

Motor Load Data

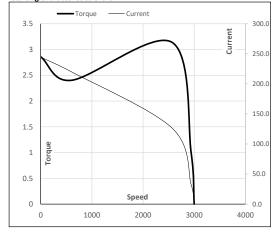
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	7.0	10.4	17.0	24.4	32.6	
Nm	0.0	14.9	30.0	45.3	60.1	
r/min	3000	2984	2967	2950	2940	
%	0.0	88.0	89.8	90.9	90.9	
%	11.4	73.3	86.0	90.0	90.0	
	Nm r/min %	A 7.0 Nm 0.0 r/min 3000 % 0.0	A 7.0 10.4 Nm 0.0 14.9 r/min 3000 2984 % 0.0 88.0	A 7.0 10.4 17.0 Nm 0.0 14.9 30.0 r/min 3000 2984 2967 % 0.0 88.0 89.8	A 7.0 10.4 17.0 24.4 Nm 0.0 14.9 30.0 45.3 r/min 3000 2984 2967 2950 % 0.0 88.0 89.8 90.9	A 7.0 10.4 17.0 24.4 32.6 Nm 0.0 14.9 30.0 45.3 60.1 r/min 3000 2984 2967 2950 2940 % 0.0 88.0 89.8 90.9 90.9



Motor Speed Torque Data

Motor Speed	i ioique bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2566	2940	3000	
Current	А	244.5	220.1	126.7	32.6	7.0	
Torque	pu	2.9	2.4	3.1	1	0	

Starting Characteristics Chart



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

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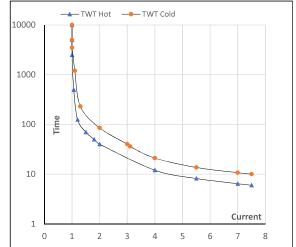
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	32.6	2940	6.13	60.10	IE2	40	S1	1000	0.0650	154

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	30	12	10	8	6
TWT Cold	s	10000	85	40	21	16	14	10
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

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