PRODUCT INFORMATION PACKET

Model No: SCA0452A4141GAA001 Catalog No: SCA0452A4141GAA001 TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 225M Frame, TEFC



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Motors

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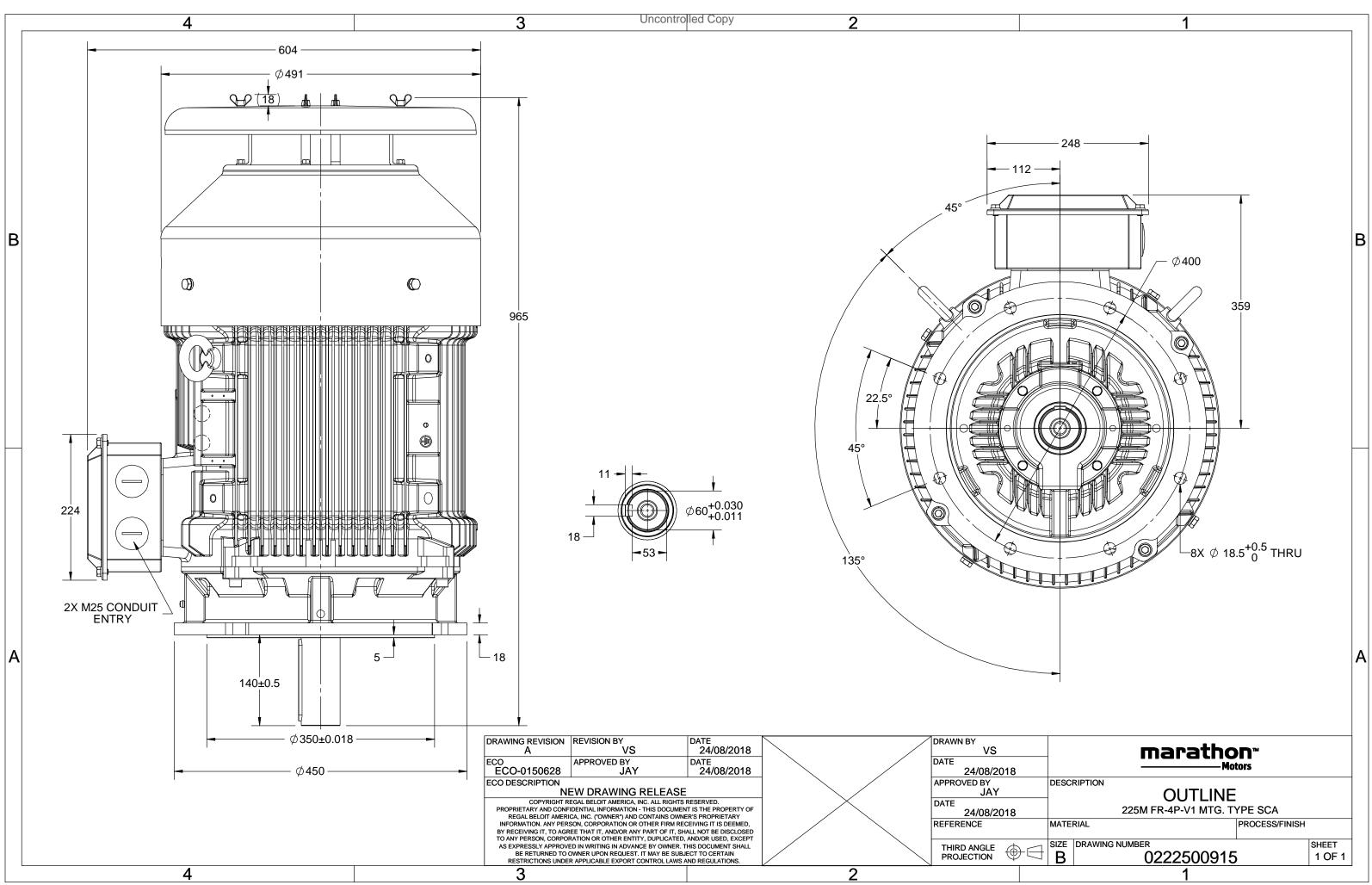
Nameplate Specifications

Output HP	60 Hp Output KW		45.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	84.4 A	Speed	1475 rpm		
Service Factor	1	Phase	3		
Efficiency	93.1 %	Power Factor	0.87		
Duty	S1	Insulation Class	F		
Frame	225M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213		
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	965 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0222500915	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF at	t load		PF	at_lo	bad	I _A /I _N	T_A/T_N	T_{κ}/T_{N}	
(∨)	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	45	60	84.4	1475	289.62	IE2	-	93.1	93.1	94	0.87	0.84	0.77	6.2	2.1	2.7	
Motor ty	ре				SCA				Deg	gree of p	protectio	on				IP 55			
Enclosure	е				TEFC				Mo	unting	type					IM V1			
Frame M	laterial				Cast Iro	on			Coc	oling me	ethod					IC 411			
Frame siz	ze				225N	1			Motor weight - approx.							383		kg	
Duty					S1				Gross weight - approx.								kg		
Voltage v	/ariatior	ו *			± 10%	6			Motor inertia							0.5637			
Frequenc	cy variat	ion *			± 5%				Load inertia						Custo	omer to Provid	е	kgm ²	
Combine	d variat	ion *		10%					Vib	Vibration level						2.2		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor)						69		dB(A)	
Service fa	actor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4				
Insulation	n class				F				Sta	rting m	ethod								
Ambient	temper	ature			-20 to +	-40		°C	Тур	e of co	upling					Direct			
Temperat	ture rise	e (by re	esistance	e)	80 [Class	s B]		К	LR v	withsta	nd time	(hot/co	ld)			30/15		S	
Altitude a	above se	ea leve	el .		1000)		meter	Dire	ection o	of rotatio	n			В	i-directional			
Hazardou	us area d	classifi	cation		NA				Sta	ndard r	otation				Cloc	ckwise form DE	<u>.</u>		
	Zone	classifi	cation		NA				Pair	nt shad	e					RAL 5014			
	Gas gr	roup			NA				Acc	essorie	S								
	Temp	erature	e class		NA					Acc	essory -	1				-			
Rotor typ	be			Alu	minum D	Die cast				Accessory - 2						-			
Bearing t	ype			A	nti-frictio	on ball				Acc	cessory -	3				-			
DE / NDE		3		631	L3 C3 / 6	213 C3			Ter	minal b	ox posit	ion				TOP			
Lubricatio		-			Regrease	able										R x 3C x 50mm²/2 x M40 x 1.5			
Type of g	roaco			CHEVRO	N SRI-2 c	or Equival	ent				erminal l				Avail	able on Reque	st		

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



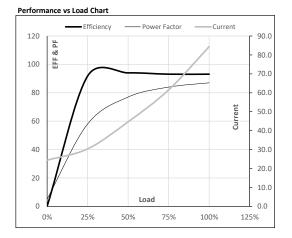
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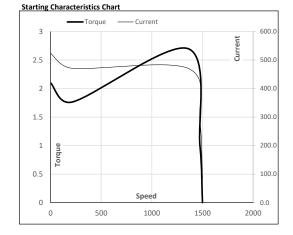
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	45	60	84.4	1475	29.53	289.62	IE2	40	S1	1000	0.5637	383

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	24.4	30.4	44.7	61.5	84.4	
Torque	Nm	0.0	71.5	143.5	216.2	289.6	
Speed	r/min	1500	1494	1489	1482	1475	
Efficiency	%	0.0	91.8	94.0	93.1	93.1	
Power Factor	%	5.1	58.0	77.0	84.0	87.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	214	1357	1475	1500							
Current	А	523.3	471.0	281.2	84.4	24.4							
Torque	pu	2.1	1.8	2.7	1	0							



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

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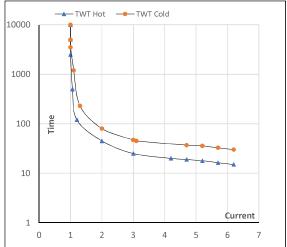
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Enclosure	U	Δ / Y	f	Р	Ρ	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ (50	45	60	84.4	1475	29.53	289.62	IE2	40	S1	1000	0.5637	383

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	ا5	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	34	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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