PRODUCT INFORMATION PACKET

Model No: SCA2P23A1141GAA001 Catalog No: SCA2P23A1141GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 112M Frame, TEFC



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marathon[®] Motors



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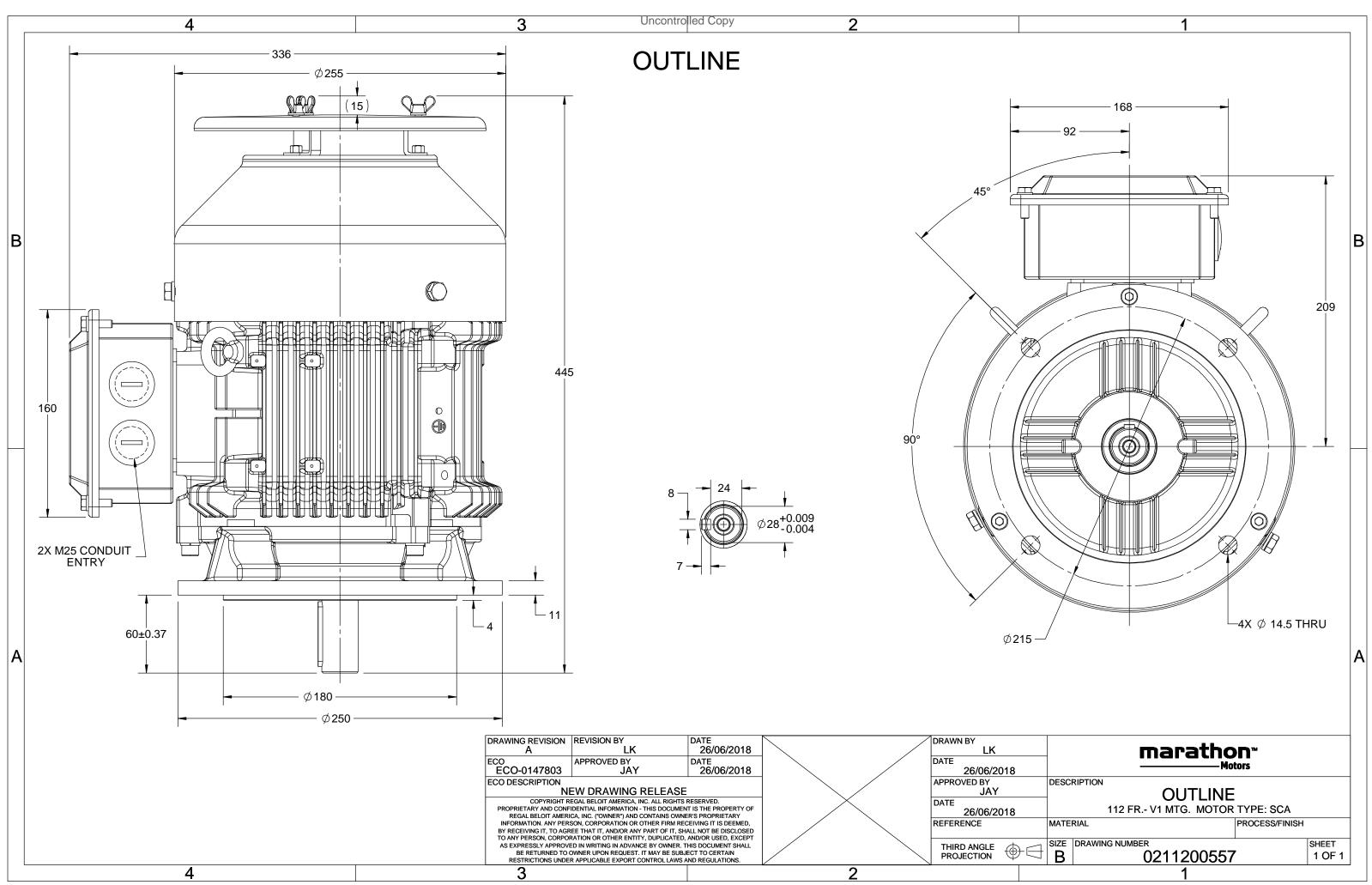
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	5.0 A	Speed	962 rpm
Service Factor	1	Phase	3
Efficiency	81.8 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	No CSA		Νο
CE	Yes	IP Code	55
Number of Speeds		Efficiency Class	IE2

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	445 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0211200557	Connection Drawing	8442000085

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TerraMAX[®]

Model No. SCA2P23A1141GAA001

(V)Conn[Hz][kW][hp]400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400Y502.23.0400YService555ervice factorService factor510Service factor110class4Ambient temperature rise (by resistance)4Altitude above sea level4Hazardous area classification5	[A] [RPM] 5.0 962 5.0 965 5.0	[Nm] 22.21	Class IE2	Motor we	type ethod	80.2	FL 0.78	3/4FL 0.7	1/2FL 0.56	[pu] 6 IP 55	[pu] 2.3	[pu] 2.6
Motor type Enclosure Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	SCA TEFC Cast Iron 112M S1 ± 10% ± 5%	22.21	IE2	Degree of Mounting Cooling m Motor we	protectio type ethod		0.78	0.7	0.56	IP 55	2.3	2.6
Enclosure Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	TEFC Cast Iron 112M S1 ± 10% ± 5%			Mounting Cooling m Motor we	type ethod	on						
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Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	Cast Iron 112M S1 ± 10% ± 5%			Cooling m Motor we	ethod							
Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	112M S1 ± 10% ± 5%			Motor we		cooling include						
Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	S1 ± 10% ± 5%				motor megne approve							
Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	± 10% ± 5%			Gross weight - approx.						46 49		kg
Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	± 5%					rox.				0.0180		kg
Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level				Motor ine					Curt	omer to Provide		kgm ²
Design Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level				Load inert					Cusic	1.6	2	
Service factor Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	10% N			Vibration					۰ ۱	59		mm/s
Insulation class Ambient temperature Temperature rise (by resistance) Altitude above sea level	1.0			Noise leve	•)	2/3/4		dB(A)
Ambient temperature Temperature rise (by resistance) Altitude above sea level	1.0 F			No. of star		bid/Equa	lly spre	ad		DOL		
Temperature rise (by resistance) Altitude above sea level	-20 to +40		00	Starting method Type of coupling					Direct			
Altitude above sea level	80 [Class B]		°C K	Type of coupling				30/15				
	1000			Direction		- (S			
Hazardous area classification	NA		meter	Standard r		011		Clockwise form DE				
Zone classification	NA			Paint shad					CIUC	RAL 5014		
Gas group	NA			Accessorie	-					NAL JOIT		
Temperature class	NA				.s cessory -	. 1				PTC 150°C		
	Juminum Die cast				cessory -					-		
Notor type	Anti-friction ball				cessory -					-		
Dearing type	306-2Z / 6206-2Z			Terminal b						ТОР		
	Greased for life			Maximum			it size	1R	x 3C x 1	16mm²/2 x M2	5 x 1.5	
Type of grease				Auxiliary t				1		able on Reques		
Type of Brease	NA			Auxiliar y 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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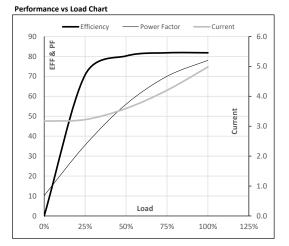


Model No. SCA2P23A1141GAA001

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	Y	50	2.2	3.0	5.0	962	2.26	22.21	IE2	40	S1	1000	0.0180	46

Motor Load Data

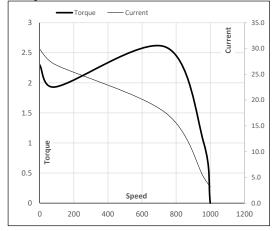
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.2	3.2	3.6	4.2	5.0	
Torque	Nm	0.0	5.4	10.9	16.5	22.2	
Speed	r/min	1000	991	982	973	962	
Efficiency	%	0.0	70.7	80.2	81.8	81.8	
Power Factor	%	10.2	35.5	56.0	70.0	78.0	
Fower Factor	70	10.2	55.5	30.0	70.0	78.0	



Motor Speed Torque Data

motor spee	a lorque Bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	735	962	1000	
Current	А	29.9	26.9	17.6	5.0	3.2	
Torque	pu	2.3	1.9	2.6	1	0	

Starting Characteristics Chart



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

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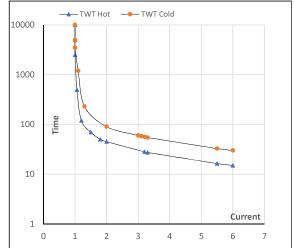
Model No. SCA2P23A1141GAA001

			Р	P	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	Y	50	2.2	3.0	5.0	962	2.26	22.21	IE2	40	S1	1000	0.0180	46

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	45	36	25	20	16	15
TWT Cold	s	10000	59	57	50	45	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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