PRODUCT INFORMATION PACKET

Model No: SCA2204A3123GAAD01 Catalog No: SCA2204A3123GAAD01 TerraMAX® Cast Iron Motor, 295 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355L Frame, TEFC



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Motors

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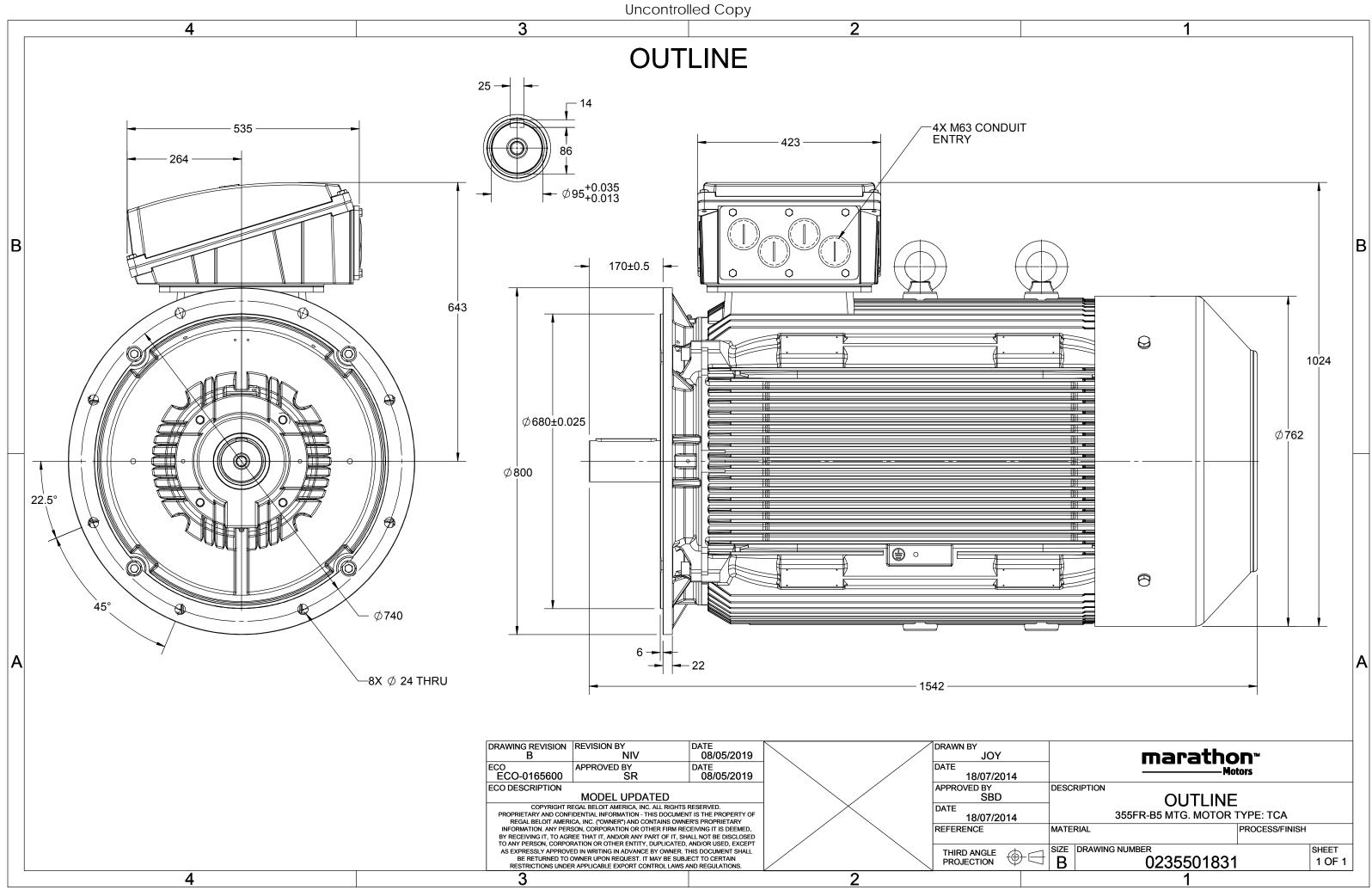
Nameplate Specifications

Output HP	295 Hp	Output KW	220.0 kW
Frequency	50 Hz	Voltage	415 V
Current	392.6 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	93.5 %	Power Factor	0.8339
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	Νο
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	ТОР		
Outline Drawing	0235501831	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I.	n	т	IE	9	% EFF a	t 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]
415	Δ	50	220	295	389.7	742	2878.7	IE2	-	93.5	93.5	95.2	0.84	0.81	0.73	5.6	1.6	2.4

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355L		Motor weight - approx.	2129	kg
Duty	S1		Gross weight - approx.	2174	kg
Voltage variation *	± 10%		Motor inertia	14.7210	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 65	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +50	°C	Type of coupling	Direct	
Temperature rise (by resistanc	e) 70 [Class B]	К	LR withstand time (hot/cold)	15/30	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6322 C3 / 6322 C3		Terminal box position	RHS	
Lubrication method	Regreaseable		Maximum cable size/conduit size 1	.R x 3C x 300mm²/4 x M63 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		Auxiliary terminal box	Available on Request	

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $T_{\rm A}/T_{\rm N}$ - 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	-	-	IS 12615 : 2018	-	-	-

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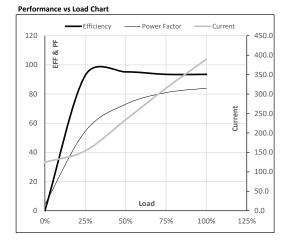
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Model No. SCA2204A3123GAAD01

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	415	Δ	50	220	295	389.7	742	293.55	2878.73	IE2	50	S1	1000	14.7210	2129

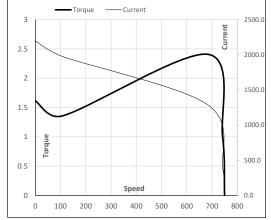
Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	124.7	154.0	233.9	315.1	389.7	
Torque	Nm	0.0	714.1	1431.6	2153.0	2878.7	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	92.8	95.2	93.5	93.5	
Power Factor	%	4.3	54.5	73.0	81.0	84.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	683	742	750	
Current	А	2196.5	1976.8	1290.7	389.7	124.7	
Torque	pu	1.6	1.4	2.4	1	0	

Starting Characteristics Chart



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

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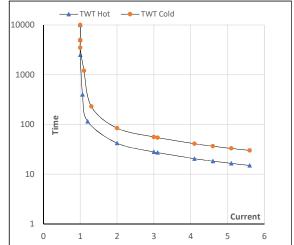
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	220	295	389.7	742	293.55	2878.73	IE2	50	S1	1000	14.7210	2129

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	42	28	20	17	16	15
TWT Cold	s	10000	84	56	39	35	31	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

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