PRODUCT INFORMATION PACKET

Model No: SCA1104A3123GAAD01 Catalog No: SCA1104A3123GAAD01 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355M Frame, TEFC



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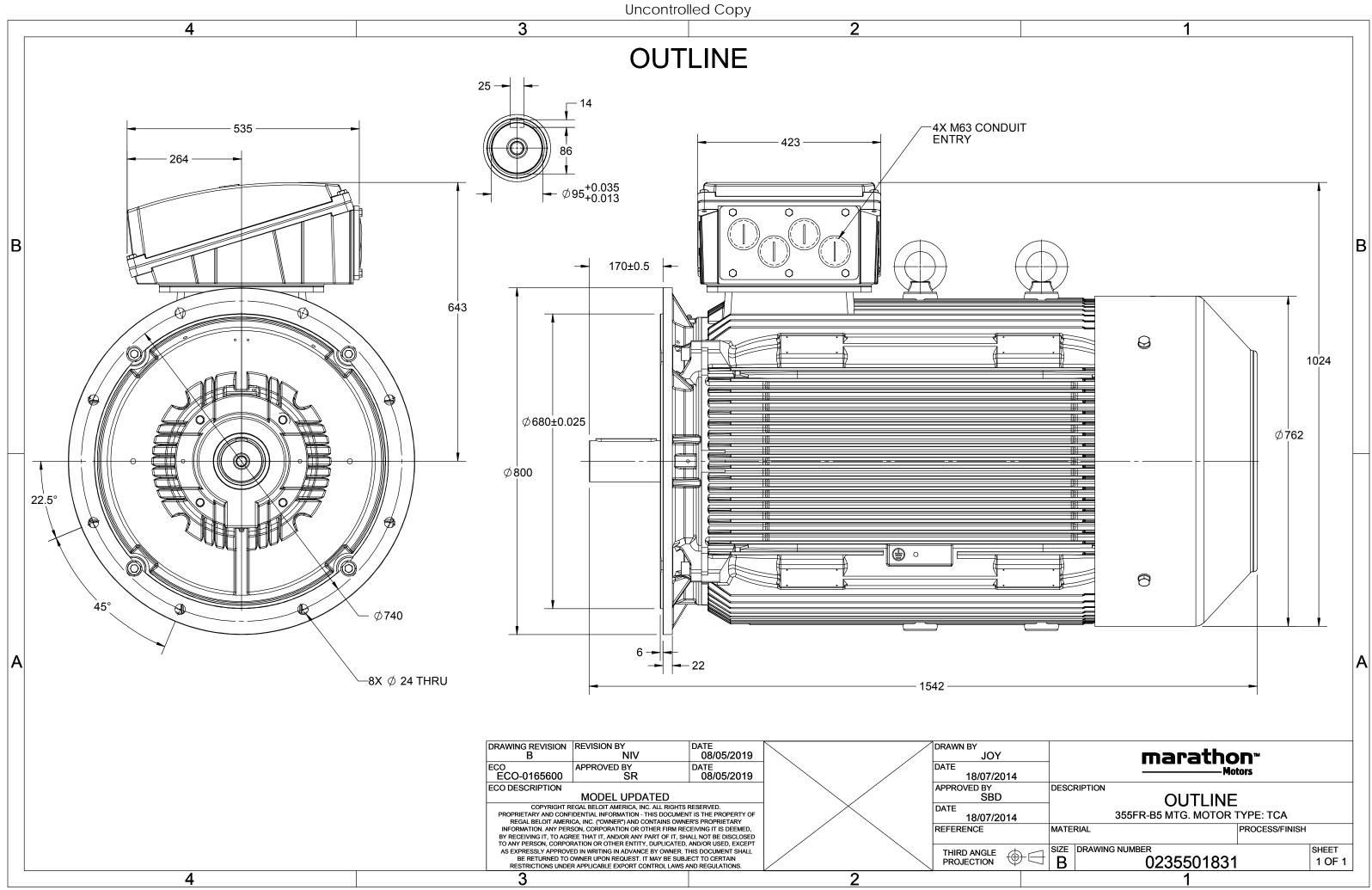
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	415 V
Current	212.6 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
			00 0
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
Drive End Bearing Size	6322 No		
		Opp Drive End Bearing Size	6322

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	$T_{\rm K}/T_{\rm N}$
(∨)	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	110	150	212.6	743	1438.4	IE2	-	92.3	92.3	93.7	0.78	0.73	0.61	5.8	1.7	2.7

	60A			10.55	
Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355M		Motor weight - approx.	1535	kg
Duty	S1		Gross weight - approx.	1580	kg
Voltage variation *	± 10%		Motor inertia	7.8323	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 resistance	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	LR 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

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



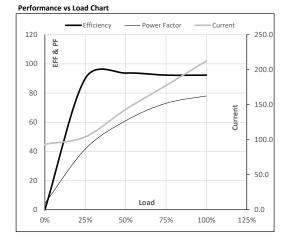
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Model No. SCA1104A3123GAAD01

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	415	Δ	50	110	150	212.6	743	146.68	1438.42	IE2	50	S1	1000	7.8323	1535

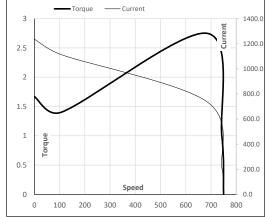
Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	93.6	104.1	143.3	177.4	212.6	
Torque	Nm	0.0	357.1	715.8	1076.2	1438.4	
Speed	r/min	750	748	747	745	743	
Efficiency	%	0.0	90.0	93.7	92.3	92.3	
Power Factor	%	4.3	41.6	61.0	73.0	78.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	684	743	750
Current	А	1236.7	1113.1	738.7	212.6	93.6
Torque	pu	1.7	1.4	2.7	1	0





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

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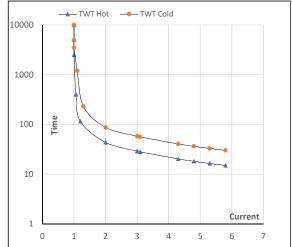
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	110	150	212.6	743	146.68	1438.42	IE2	50	S1	1000	7.8323	1535

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	44	29	25	17	16	15
TWT Cold	s	10000	87	58	45	35	31	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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