PRODUCT INFORMATION PACKET

Model No: SCA1324A3111GAAD01 Catalog No: SCA1324A3111GAAD01 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355M Frame, TEFC



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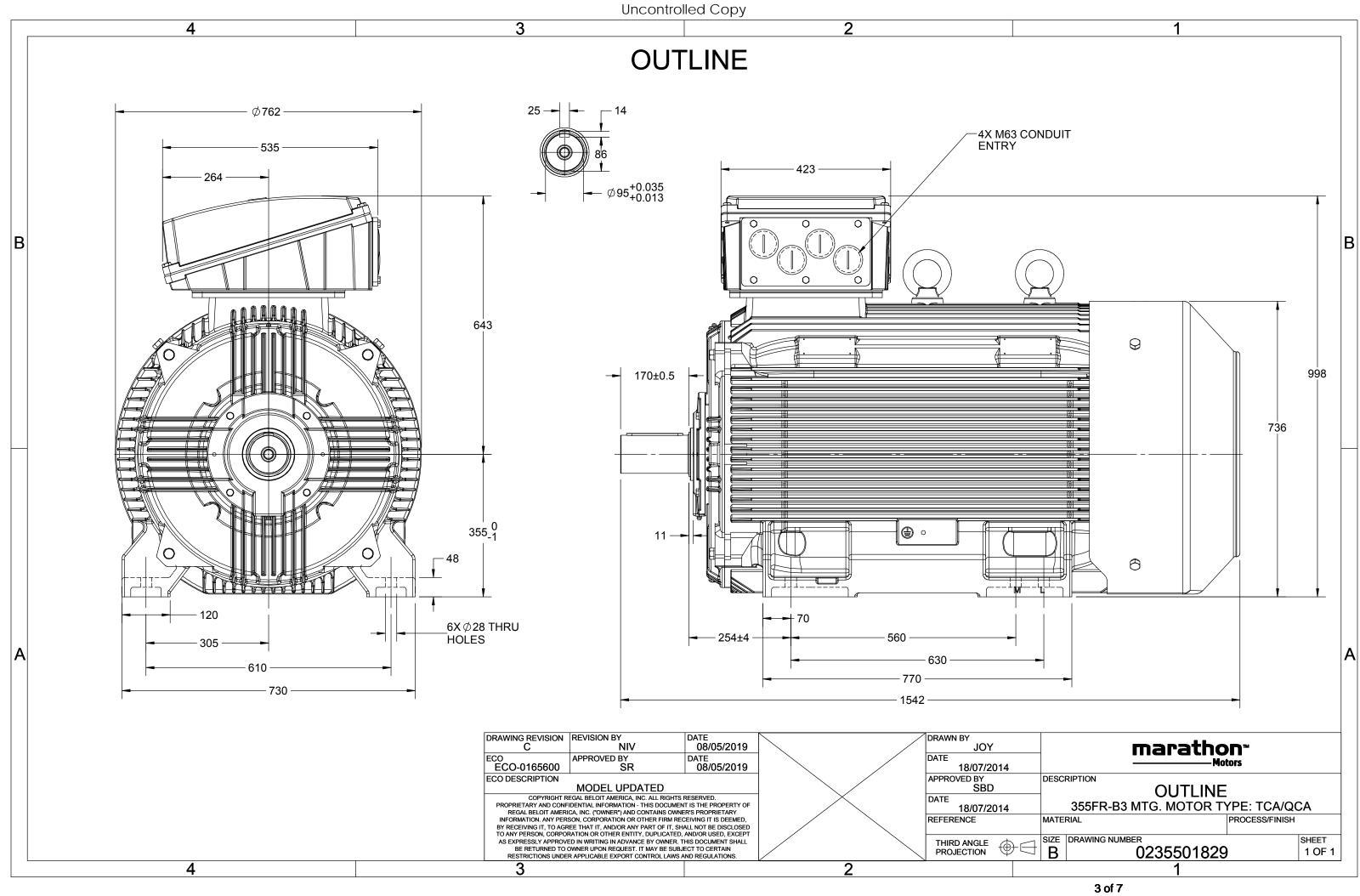
Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	415 V
Current	248.3 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	92.6 %	Power Factor	0.7987
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	50 °C 6322

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	СЗ	
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			
Connection Drawing	8442000085	Outline Drawing	0235501829	

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TerraMAX[®]

Model No. SCA1324A3111GAAD01

Frame MaterialCast IronCooling methodIC 411Frame size355MMotor weight - approx.1641kgDutyS1Gross weight - approx.1686kgVoltage variation *± 10%Motor inertia8.9257kgmFrequency variation *± 0%Vibration level2.8mm/.Combined variation *10%Vibration level2.8mm/.DesignNNo. of starts hot/cold/Equally spread2/3/4MotorInsulation classFStarting methodDOLFAmbient temperature-20 to +50°CType of couplingDirectFAutitude above sea level1000meterDirection of rotationBi-directionalFZone classificationNAPaint shadeRAL S014FGas groupNAAccessory - 1-Accessory - 2-Temperature classNAAccessory - 2-Accessory - 2-Temperature classNAAccessory - 3-Terminal box positionTOPDe / NDE bearing6322 C3 / 6322 C3Maximum cable size/conduit size1R x 3C x 300mm²/4 x M63 x 1.5Terminal box positionTOP	U Δ/Y f	Р	Р	1	n	Т	IE		% EFF a	tload	ł	PF	at_lo	bad	I _A /I _N	T _A /T _N	Τ _κ /Τ _N
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T_{k}/T_{N} - Locked Rotor Current / Rated Current T	Lubrication method	ubrication method Regreaseable					Ma	Maximum cable size/conduit size 1					1R x 3C x 300mm²/4 x M63 x 1.5				
	Type of grease	Shel	ll Gadu	s S5 V100) or Equiv	valent		Aux	kiliary te	erminal l	ох			Avail	able on Requ	est	
	I₄/I _N - Locked Rotor Curre	ent / Ra	ited Cu	rrent				T⊮/	T _N - Bre	akdown	Torque	/ Rated	d Torque	2			
								N									

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 combined variation are as per IEC60034-1

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.											
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	-	-	IS 12615 : 2018	-	-	-					

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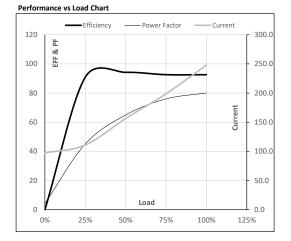
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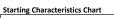
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	132	175	247.9	743	171.13	1678.21	IE2	50	S1	1000	8.9257	1641

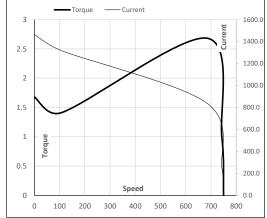
Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	А	97.3	110.9	156.3	198.7	247.9							
Torque	Nm	0.0	416.6	835.1	1255.5	1678.2							
Speed	r/min	750	748	747	745	743							
Efficiency	%	0.0	90.9	94.2	92.6	92.6							
Power Factor	%	4.3	45.1	65.0	76.0	80.0							



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	684	743	750
Current	А	1464.8	1318.3	840.4	247.9	97.3
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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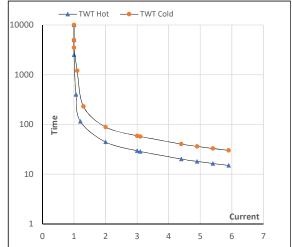
Model No. SCA1324A3111GAAD01

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	132	175	247.9	743	171.13	1678.21	IE2	50	S1	1000	8.9257	1641

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	44	30	25	18	16	15
TWT Cold	s	10000	89	59	45	35	32	30
Current	pu	1	2	3	4	5	5.5	5.9

Thermal Characteristics Chart



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

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