PRODUCT INFORMATION PACKET

Model No: SCA2803A3133GAAD01 Catalog No: SCA2803A3133GAAD01 TerraMAX® Cast Iron Motor, 375 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 355L Frame, TEFC



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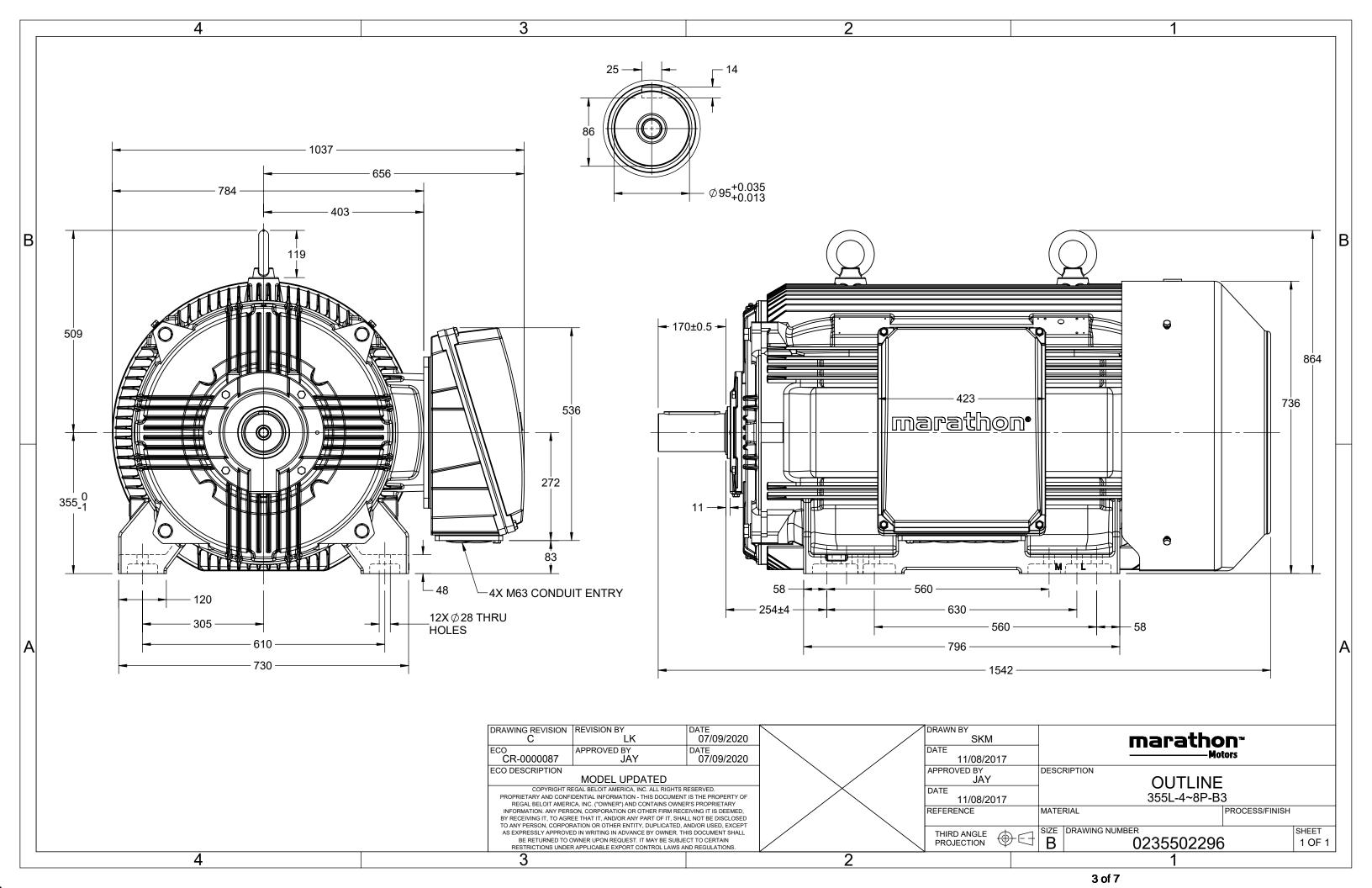
Nameplate Specifications

Output HP	375 Нр	Output KW	280.0 kW
Frequency	50 Hz	Voltage	415 V
Current	476.6 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.86
Duty	S1	Insulation Class	F
-	0		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	355L No Protection	Ambient Temperature	Totally Enclosed Fan Cooled
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	6	Rotation	Bi-Directional
Mounting	B35	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	SIDE		
Connection Drawing	8442000085	Outline Drawing	0235502296

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Model No. SCA2803A3133GAAD01

U	Δ / Y	f	Р	Р	I.	n	т	IE	9	% EFF a	t loac	ł	PF	at _ lo	ad	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	280	375	476.8	990	2697.7	IE2	-	95.0	95.0	95.8	0.86	0.84	0.76	5.3	1.9	2.3

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355L		Motor weight - approx.	2008	kg
Duty	S1		Gross weight - approx.	2053	kg
Voltage variation *	± 10%		Motor inertia	12.7166	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from mot	or) 70	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)	20/40	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	Regreasable		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_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	are subject to chang	ge. There may be discrepa	ncies between calculated an	d name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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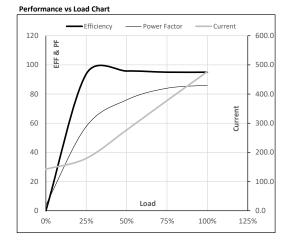
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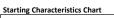
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	280	375	476.8	990	275.09	2697.73	IE2	50	S1	1000	12.7166	2008

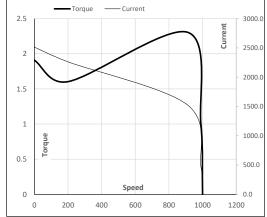
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	142.4	179.4	277.0	377.7	476.8	
Torque	Nm	0.0	669.3	1341.7	2017.7	2697.7	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	93.8	95.8	95.0	95.0	
Power Factor	%	4.0	57.8	76.0	84.0	86.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	911	990	1000	
Current	А	2514.0	2262.6	1526.4	476.8	142.4	
Torque	pu	1.9	1.6	2.3	1	0	





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

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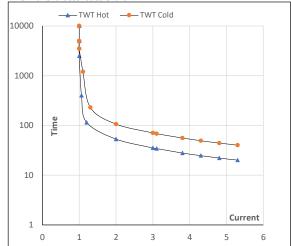
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	280	375	476.8	990	275.09	2697.73	IE2	50	S1	1000	12.7166	2008

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	s	10000	53	35	27	24	21	20
TWT Cold	s	10000	106	71	54	48	43	40
Current	pu	1	2	3	4	4.5	5	5.4

Thermal Characteristics Chart



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

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