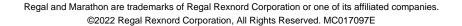
PRODUCT INFORMATION PACKET



Model No: SCA3751A3113GAAD01 Catalog No: SCA3751A3113GAAD01

TerraMAX® Cast Iron Motor, 503 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 355L Frame, TEFC









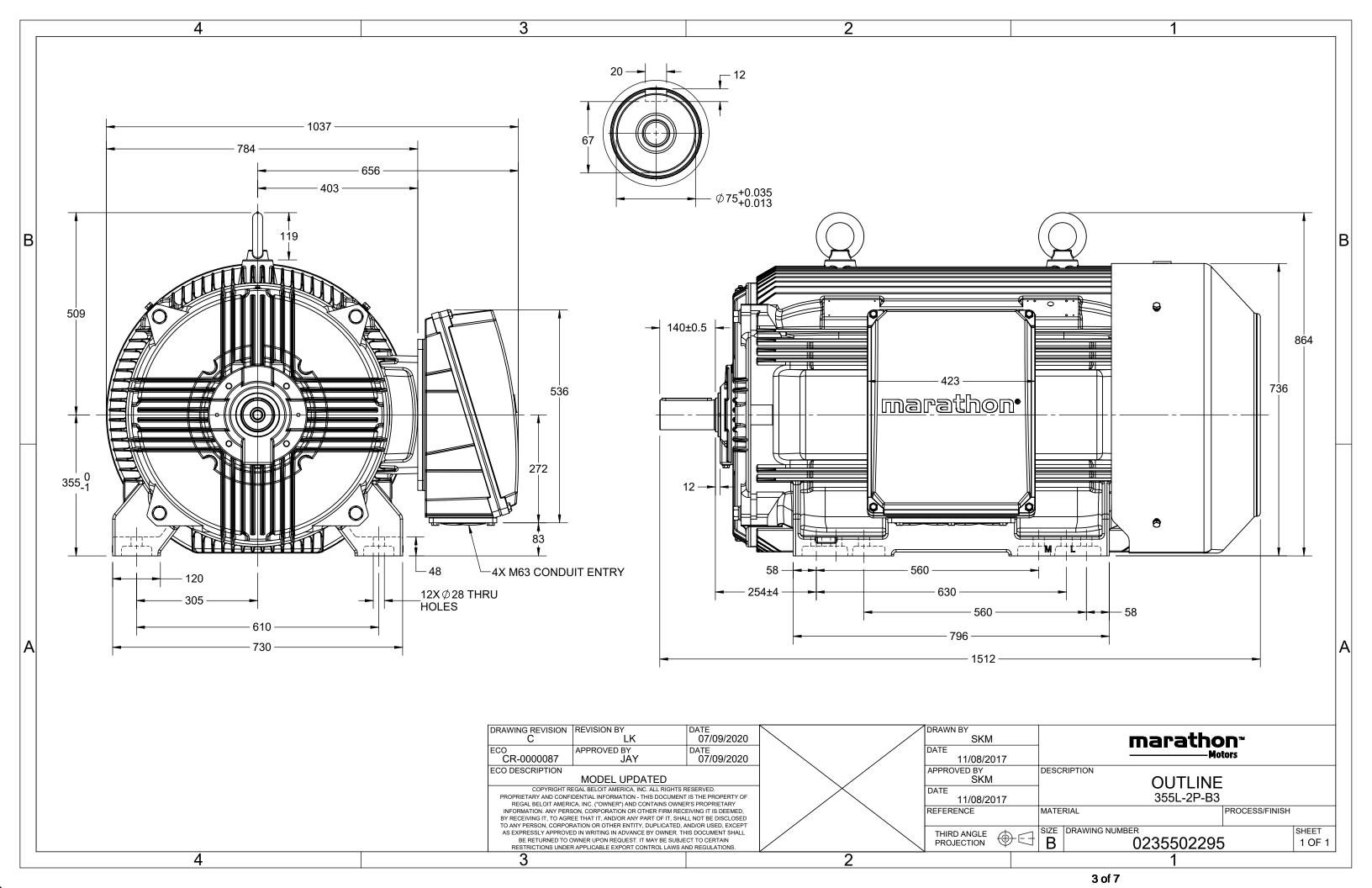
Nameplate Specifications

Output HP	503 Hp	Output KW	375.0 kW
Frequency	50 Hz	Voltage	415 V
Current	596.9 A	Speed	2980 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.92
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	2	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1512 mm	Frame Length	1010 mm	
Shaft Diameter	75 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	SIDE			
Outline Drawing	0235502295	Connection Drawing	8442000085	

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
>30~120 ±0.3									



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. SCA3751A3113GAAD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load		PF	at lo	ad	I_A/I_N	T_A/T_N	T_K/T_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	375	503	596.9	2980	1199.3	IE2	-	95.0	95.0	95.2	0.92	0.91	0.88	5.5	1.9	2.5

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resistance	e) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6317 C3 / 6317 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	1974	kg
Gross weight - approx.	2019	kg
Motor inertia	5.2214	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from me	otor) 90	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	12/25	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 300mm ² /4 x M63 x 1.5	
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

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	-	-	_

REGAL

^{*} Voltage, Frequency and combine variation are as per IEC60034-1

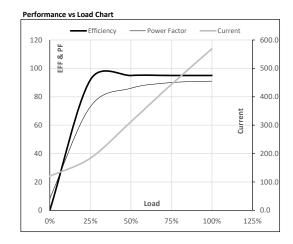




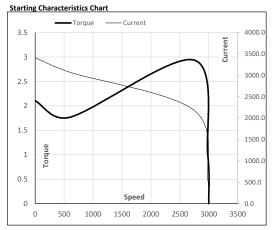
Model No. SCA3551A3113GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	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	355	475.0	568.7	2982	115.66	1134.20	IE2	50	S1	1000	4.9821	1922

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	120.3	183.7	311.8	443.4	568.7	
Torque	Nm	0.0	282.3	565.4	849.3	1134.2	
Speed	r/min	3000	2996	2991	2987	2982	
Efficiency	%	0.0	91.9	95.0	95.0	95.0	
Power Factor	%	8.4	73.0	86.0	90.0	91.0	



Motor Speed 1	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2743	2982	3000	
Current	Α	3412.0	3070.8	2185.2	568.7	120.3	
Torque	pu	2.1	1.8	2.9	1	0	



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

Issued By Issued Date

REGAL

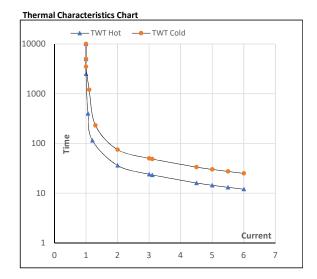




Model No. SCA3551A3113GAAD01

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-m²]	[kg]
TEFC	415	Δ	50	355	475	568.7	2982	115.66	1134.20	IE2	50	S1	1000	4.9821	1922

Motor Speed Torque Data								
Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	36	24	20	14	13	12
TWT Cold	S	10000	75	50	45	30	27	25
Current	pu	1	2	3	4	5	5.5	6



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

Issued By Issued Date

DECAL S