PRODUCT INFORMATION PACKET

Model No: SCA0111A1141GAA001 Catalog No: SCA0111A1141GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







Product Information Packet: Model No: SCA0111A1141GAA001, Catalog No:SCA0111A1141GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC

marathon®

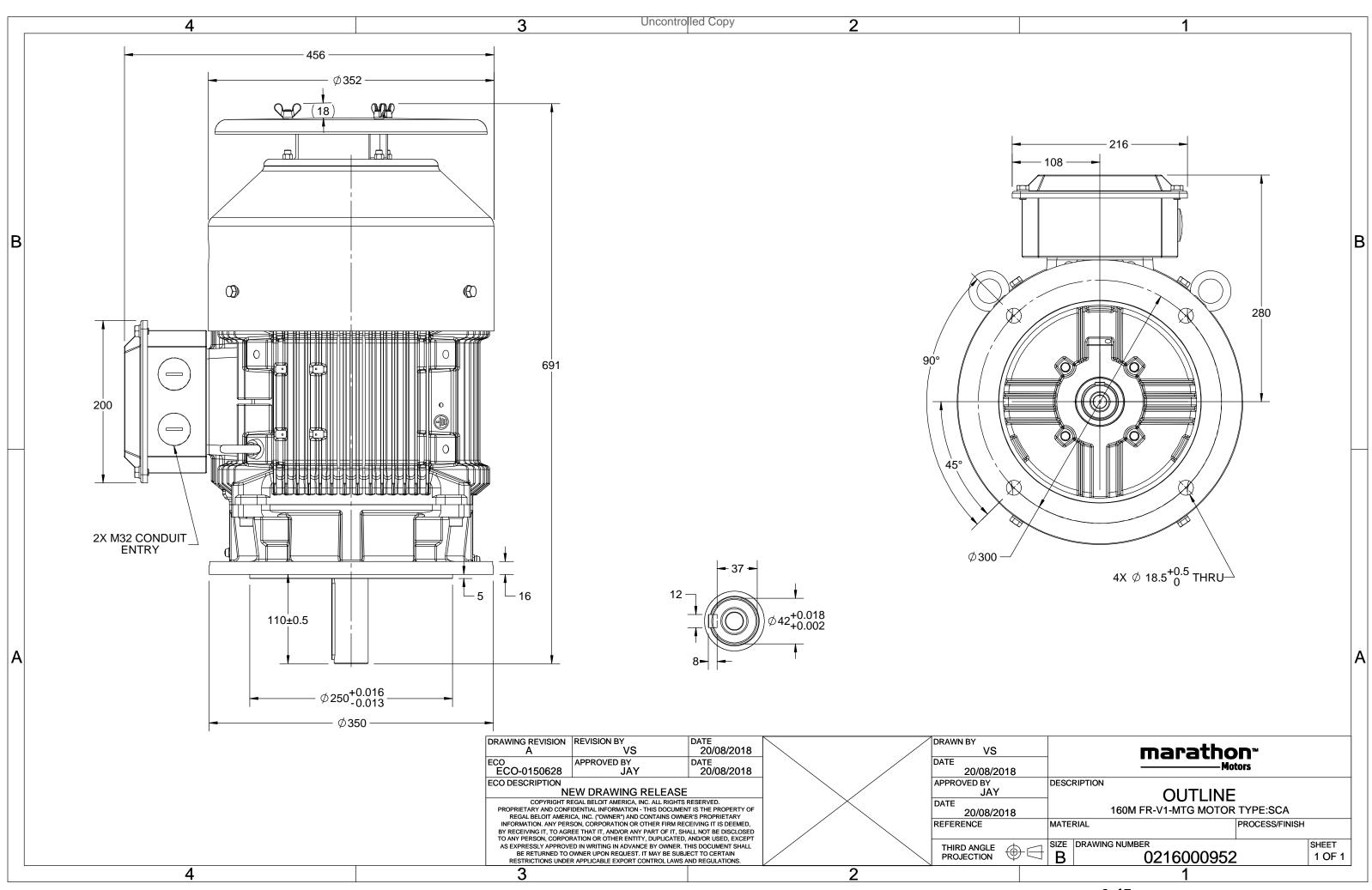
Nameplate Specifications

Output HP	15 Hp Output KW		11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	20.0 A	Speed	2940 rpm
Service Factor	1	Phase	3
Efficiency	89.4 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	691 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000952

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



3 of 7





TerraMAX[®]

Model No. SCA0111A1141GAA001

U	Δ / Y	f	Р	Р	1	n	Т	IE		% EFF at	t load	ł	PF	at lo	bad	I_A/I_N	T_A/T_N	Τ _κ /Τ _Ν
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	11	15	20.0	2940	35.70	IE2	-	89.4	89.4	88.2	0.89	0.89	0.85	7.46	2.4	2.9
Motor t	VDA				SCA				Dec	ree of i	protecti	on				IP 55		
Enclosu					TEFC					unting 1		011				IM V1		
Frame N					Cast Ire					oling me						IC 411		
Frame s					160N					•	ght - ap	orox				122		ke
Duty					S1						5 11					142		k
Voltage	variatio	n *			± 10%							Gross weight - approx. Motor inertia						kgm
Frequer					± 5%					d inerti					Cust	omer to Provi	de	
Combin	•				10%				Vib	ration le	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce from	n motor)	74		dB(A
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulatio	on class				F				Sta	rting me	ethod		, ,			DOL		
Ambien	t tempe	rature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temper	ature ri	se (by i	resistanc	e)	80 [Clas	s B]		К	LR	withstar	nd time	(hot/co	ld)			10/6		9
Altitude	above	sea lev	el		1000)		meter	Dir	ection o	of rotatio	on			B	Bi-directional		
Hazardo	ous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	E	
:	Zone cla	assifica	tion		NA				Pai	nt shade	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Acc	essory	- 1				PTC 150°C		
Rotor ty	/pe			Alı	uminum [Die cast				Acc	cessory -	- 2				-		
Bearing	type			A	nti-frictic	on ball				Acc	essory	- 3				-		
DE / ND	E bearin	ng		63	09-2Z / 6	5209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricat	ion met	thod		G	Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M	32 x 1.5	
Type of	grease				NA				Aux	iliary te	erminal	box			Avail	able on Requ	est	

 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	a are subject to change	e. There may be disci	repancies between calculated	and name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

REGAL

marathon®



Model No. SCA0111A1141GAA001

(V) Conn [Hz] [kW] [hp]	[A] [RPM]					2	
	[A] [RPIVI]	[kgm] [Nm]	Class	[°C]	[m]	[kg-m ²]	[kg]
TEFC 400 Δ 50 11 15	20.0 2940	3.64 35.70	IE2	40 S1	1000	0.0430	122

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

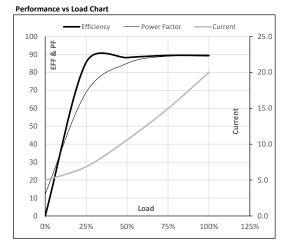
Load Point

Speed

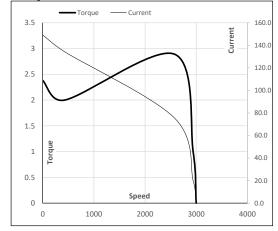
Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.9	6.9	10.6	15.0	20.0	
Torque	Nm	0.0	8.9	18.0	27.2	35.7	
Speed	r/min	3000	2983	2967	2949	2940	
Efficiency	%	0.0	85.5	88.2	89.4	89.4	
Power Factor	%	12.2	68.8	85.0	89.0	89.0	



Starting Characteristics Chart



P-Up

429

134.3

2.0

LR

0

149.2

2.4

BD

2576

75.5

2.9

Rated

2940

20.0

1

NL

3000

4.9

0

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

Issued By Issued Date

REGAL





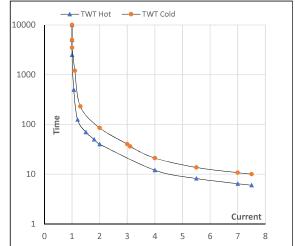
Model No. SCA0111A1141GAA001

Enclosure	U	Δ / Y	f	Р	Ρ	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	400	Δ	50	11	15	20.0	2940	3.64	35.70	IE2	40	S1	1000	0.0430	122

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	30	12	10	8	6
TWT Cold	s	10000	85	40	21	16	14	10
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL