PRODUCT INFORMATION PACKET

Model No: SCA0303A1141GAA001 Catalog No: SCA0303A1141GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 225M 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





marathon[®] Motors

Product Information Packet: Model No: SCA0303A1141GAA001, Catalog No:SCA0303A1141GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 225M Frame, TEFC

marathon®

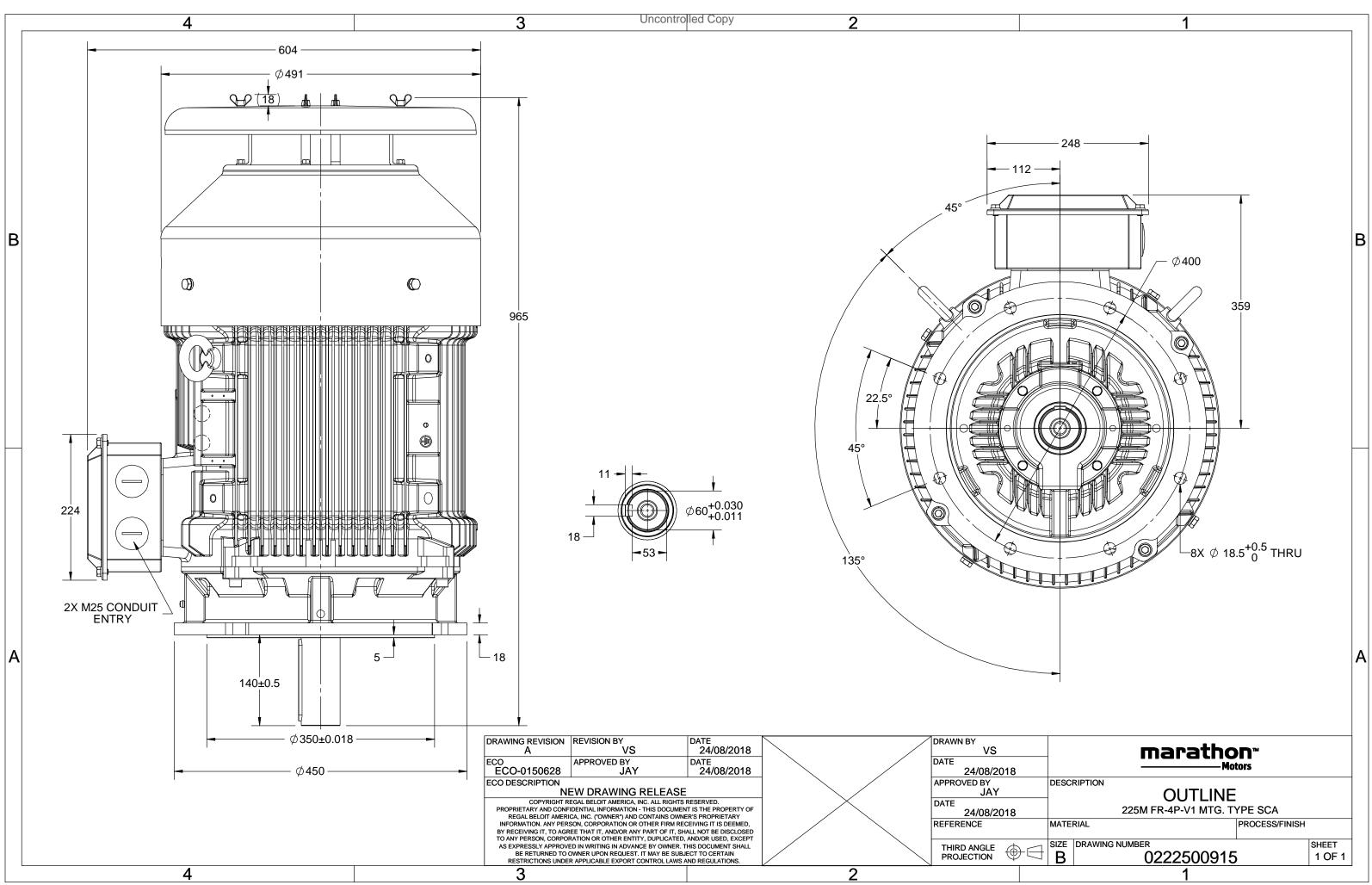
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	56.9 A	Speed	983 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
	225M Enclosure		
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225M 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 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage Starting Method		Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	965 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0222500915	Connection Drawing	8442000085

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. SCA0303A1141GAA001

(V) Conn [Hz] 400 Δ 50		np] [A]	[RPM]				% EFF at						I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
400 Δ 50	30 4			[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
		40 56.9	983	289.89	IE2	-	91.7	91.7	92.6	0.83	0.8	0.7	5.6	2.0	2.3
I															
Motor type		SCA				Deg	gree of p	protecti	on				IP 55		
Enclosure		TEFC	2			Мо	unting 1	type					IM V1		
Frame Material		Cast Ir	on			Coc	ling me	ethod					IC 411		
Frame size		225N	Л			Мо	tor wei	ght - app	prox.				389		kg
Duty		S1				Gro	ss weig	ht - app	rox.				419		kg
Voltage variation *		± 109	%			Мо	tor iner	tia					0.7554		kgm ²
Frequency variation *		± 5%	, D			Loa	d inerti	а				Custo	omer to Provid	e	
Combined variation *		10%				Vib	ration le	evel					2.2		mm/s
Design		Ν				Noi	se level	(1mete	er distar	nce from	n motor)	66		dB(A)
Service factor		1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulation class		F				Sta	rting me	ethod					DOL		
Ambient temperature		-20 to -	+40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by res	sistance)	80 [Clas	is B]		К	LR ۱	withstar	nd time	(hot/co	ld)			30/15		s
Altitude above sea level		1000	כ		meter	Dire	Direction of rotation			Bi-directional					
Hazardous area classifica	ation	NA				Sta	ndard r	otation				Cloc	ckwise form DE		
Zone classification	on	NA				Pair	nt shade	е					RAL 5014		
Gas group		NA				Acc	essorie	s							
Temperature cla	SS	NA					Acc	essory -	- 1				PTC 150°C		
Rotor type		Aluminum	Die cast				Acc	essory -	- 2				-		
Bearing type		Anti-frictio	on ball				Acc	essory -	- 3				-		
DE / NDE bearing		6313 C3 / 6	5213 C3			Ter	minal b	ox posit	ion				TOP		
Lubrication method		Regreas	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x M4	0 x 1.5	
Type of grease	CHI	EVRON SRI-2	or Equival	ent		Aux	iliary te	erminal l	box			Avail	able on Reque	st	

 $I_{\text{A}}/I_{\text{N}}$ - 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 dat	a are subject to change	e. There may be disc	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[®] Motors

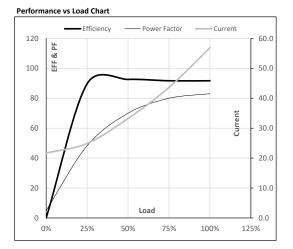


Model No. SCA0303A1141GAA001

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	400	Δ	50	30	40	56.9	983	29.56	289.89	IE2	40	S1	1000	0.7554	389

Motor Load Data

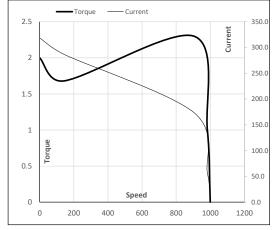
6 56.9
.3 289.9
8 983
7 91.7
0 83.0



eed	Torque	Data		

Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	143	904	983	1000				
Current	А	318.6	286.7	173.7	56.9	21.7				
Torque	pu	2.0	1.7	2.3	1	0				





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

Issued By Issued Date

REGAL





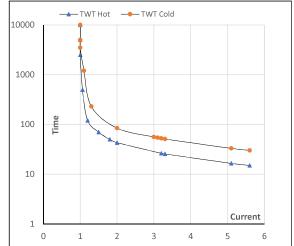
Model No. SCA0303A1141GAA001

(V) Conn [Hz] [kW	(W] [hp] [A	1 [rom]		r., ,					2	
(1) ••••••		\] [rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400 Δ 50 30	30 40 56	.9 983	29.56	289.89	IE2	40	S1	1000	0.7554	389

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	43	30	23	17	16	15
TWT Cold	s	10000	54	51	45	34	32	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL