PRODUCT INFORMATION PACKET

Model No: SCA1603A4141GAA001 Catalog No: SCA1603A4141GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355M 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

III **REGUI**REA

1 of 7

Product Information Packet: Model No: SCA1603A4141GAA001, Catalog No:SCA1603A4141GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355M Frame, TEFC

marathon®

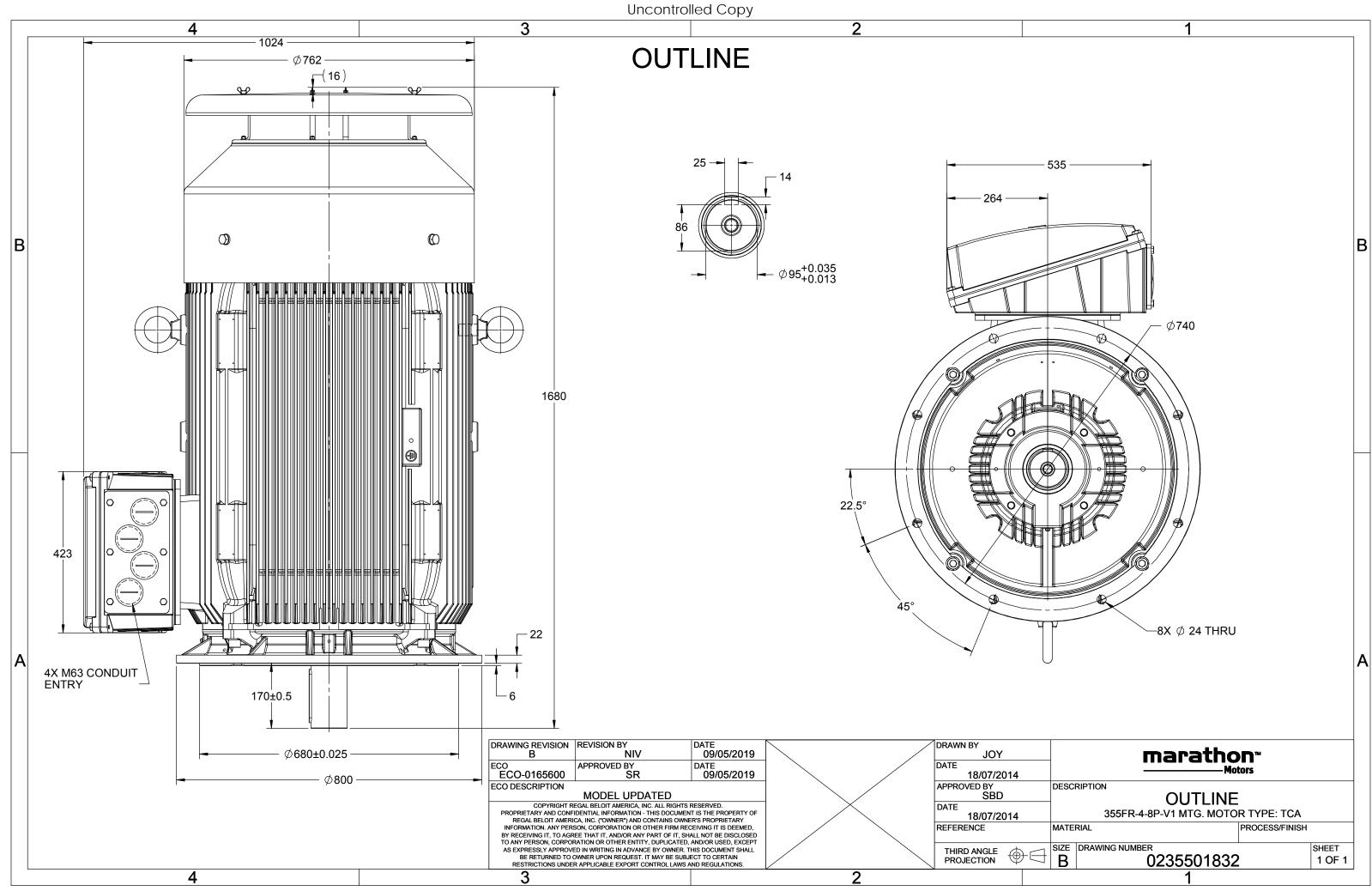
Nameplate Specifications

Output HP	215 Нр	Output KW	160.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	298.2 A	Speed	991 rpm
Service Factor	1	Phase	3
Efficiency	94.8 %	Power Factor	0.86
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 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

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	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1680 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501832

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. SCA1603A4141GAA001

U Δ /	′ Y	f	Р	Р	I	n	Т	IE	ç	% EFF at	t_load	ł	PF	[:] at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Co	nn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660 <i>L</i>	7	50	160	215	298.2	991	1545.3	IE2	-	94.8	94.8	95.5	0.86	0.82	0.74	6.1	1.9	2.5
Motor type					SCA				Dor	trop of	orotecti	on				IP 55		
Enclosure					TEFC				-	unting		011				IM V1		
Frame Mater	ial				Cast Irc					oling me						IC 411		
Frame size	Iai				355N					-		nrov				1604		ka
					S1	1					ght - ap ht - app					1649		kg
Duty Valtage veria	+:	*			± 10%	<u>,</u>				-		irox.				8.5699		kg
Voltage varia					± 5%					tor iner					Cust	omer to Provid	10	kgm ²
Frequency va					± 5%					d inerti					Cusi	2.8	le	,
Combined va	riati	on *								ration l			6		•			mm/s
Design					N									n motor)	70		dB(A)
Service factor	-				1.0						ts hot/c	old/Equ	ially spr	ead		2/3/4		
Insulation cla					F					rting m						DOL		
Ambient tem	•				-20 to +	-		°C		e of co						Direct		
Temperature				2)	80 [Class	-		K			nd time	•	ld)			30/15		S
Altitude abov			-		1000			meter			f rotatio	on				Bi-directional		
Hazardous ar	ea c	lassifi	cation		NA				Sta	ndard r	otation				Cloc	ckwise form D	-	
Zo	ne c	lassific	cation		NA				Pair	nt shad	9					RAL 5014		
Ga	is gro	oup			NA				Acc	essorie	5							
Те	mpe	erature	e class		NA					Acc	essory -	· 1				-		
Rotor type				Alı	ıminum D	Die cast				Acc	essory -	- 2				-		
Bearing type				A	nti-frictio	n ball				Acc	essory -	- 3				-		
DE / NDE bea	iring			63	22 C3 / 6	322 C3			Ter	minal b	ox posit	ion				ТОР		
Lubrication m	neth	od			Regrease	able			Ma	ximum	cable siz	ze/cond	luit size	1R	x 3C x 3	00mm²/4 x M	63 x 1.5	
Type of greas	se			CHEVRC	N SRI-2 o	r Equiva	lent		Aux	kiliary te	erminal	box			Avail	able on Reque	st	

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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 change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



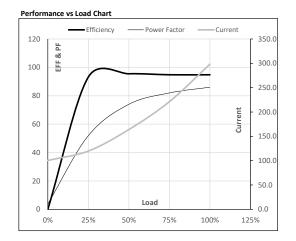
marathon®



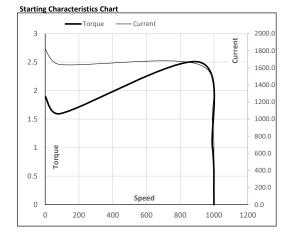
Model No. SCA1603A4141GAA001

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	380/660	Δ	50	160	215	298.2	991	157.57	1545.28	IE2	40	S1	1000	8.5699	1604

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	100.5	119.7	163.9	221.2	298.2	-,
Torque	Nm	0.0	383.7	769.0	1156.1	1545.3	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	93.2	95.5	94.8	94.8	
Power Factor	%	3.8	51.9	74.0	82.0	86.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	912	991	1000						
Current	А	1818.8	1636.9	961.5	298.2	100.5						
Torque	pu	1.9	1.6	2.5	1	0						



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

Issued By Issued Date

REGAL



TerraMAX[®]

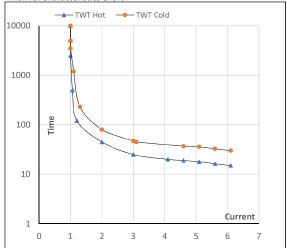
Model No. SCA1603A4141GAA001

Er	nclosure	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	380/66	0 Δ	50	160	215	298.2	991	157.57	1545.28	IE2	40	S1	1000	8.5699	1604
																-

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL