PRODUCT INFORMATION PACKET

Model No: SCA2803A4131GAA001 Catalog No: SCA2803A4131GAA001 TerraMAX® Cast Iron Motor, 375 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355L 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: SCA2803A4131GAA001, Catalog No:SCA2803A4131GAA001 TerraMAX® Cast Iron Motor, 375 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355L Frame, TEFC

marathon®

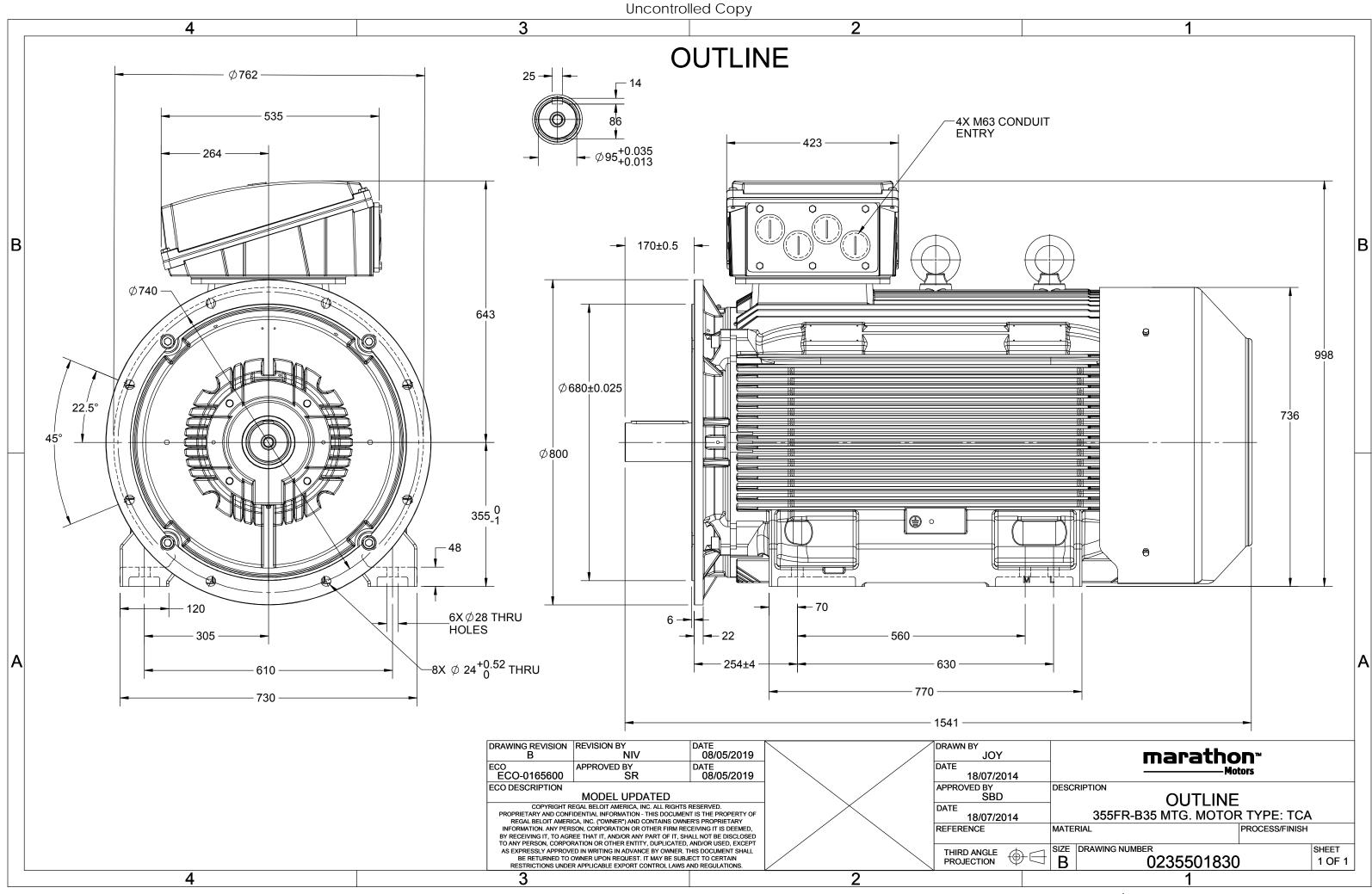
Nameplate Specifications

Output HP	375 Hp	Output KW	280.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	514.7 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection			
	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322
		-	
Drive End Bearing Size	6322	Opp Drive End Bearing Size	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	СЗ	Opp Drive End Bearing	СЗ
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	Тор		
Outline Drawing	0235501830	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. SCA2803A4131GAA001

U	Δ / Y	f	Р	Р	1	n	т	IE	9	6 EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	T _K /T _N
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	280	375	514.7	990	2696.5	IE2	-	95	95	95.6	0.87	0.84	0.77	6.1	2.0	2.4

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.	1993	kg
Duty	S1		Gross weight - approx.	2038	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	Ν		Noise level (1meter distance from moto	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 +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	К	LR withstand time (hot/cold)	15/30	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	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 300mm²/4 x M63 x 1.5	,
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	
-					

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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 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				

REGAL

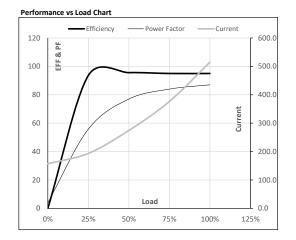
marathon®



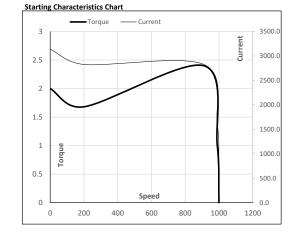
Model No. SCA2803A4131GAA001

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	280	375	514.7	990	274.97	2696.54	IE2	40	S1	1000	12.7166	1901

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	157.1	193.5	274.3	376.4	514.7	
Torque	Nm	0.0	669.2	1341.5	2017.1	2696.5	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	93.6	95.6	95.0	95.0	
Power Factor	%	3.9	55.8	77.0	84.0	87.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	200	911	990	1000						
Current	А	3139.8	2825.8	1601.7	514.7	157.1						
Torque	pu	2.0	1.7	2.4	1	0						



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

Issued By Issued Date

REGAL



TerraMAX[®]

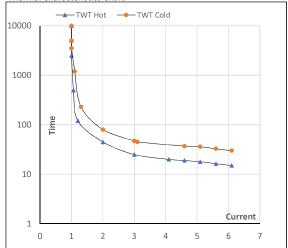
Model No. SCA2803A4131GAA001

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	380/660	Δ	50	280	375	514.7	990	274.97	2696.54	IE2	40	S1	1000	12.7166	1901
TEFC	380/660	Δ	50	280	375	514.7	990	2/4.9/	2696.54	IEZ	40	51	1000	12.7166	5

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