PRODUCT INFORMATION PACKET

Model No: SCA1602A1141GAA001 Catalog No: SCA1602A1141GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315L 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



exnord



Product Information Packet: Model No: SCA1602A1141GAA001, Catalog No:SCA1602A1141GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315L Frame, TEFC

marathon®

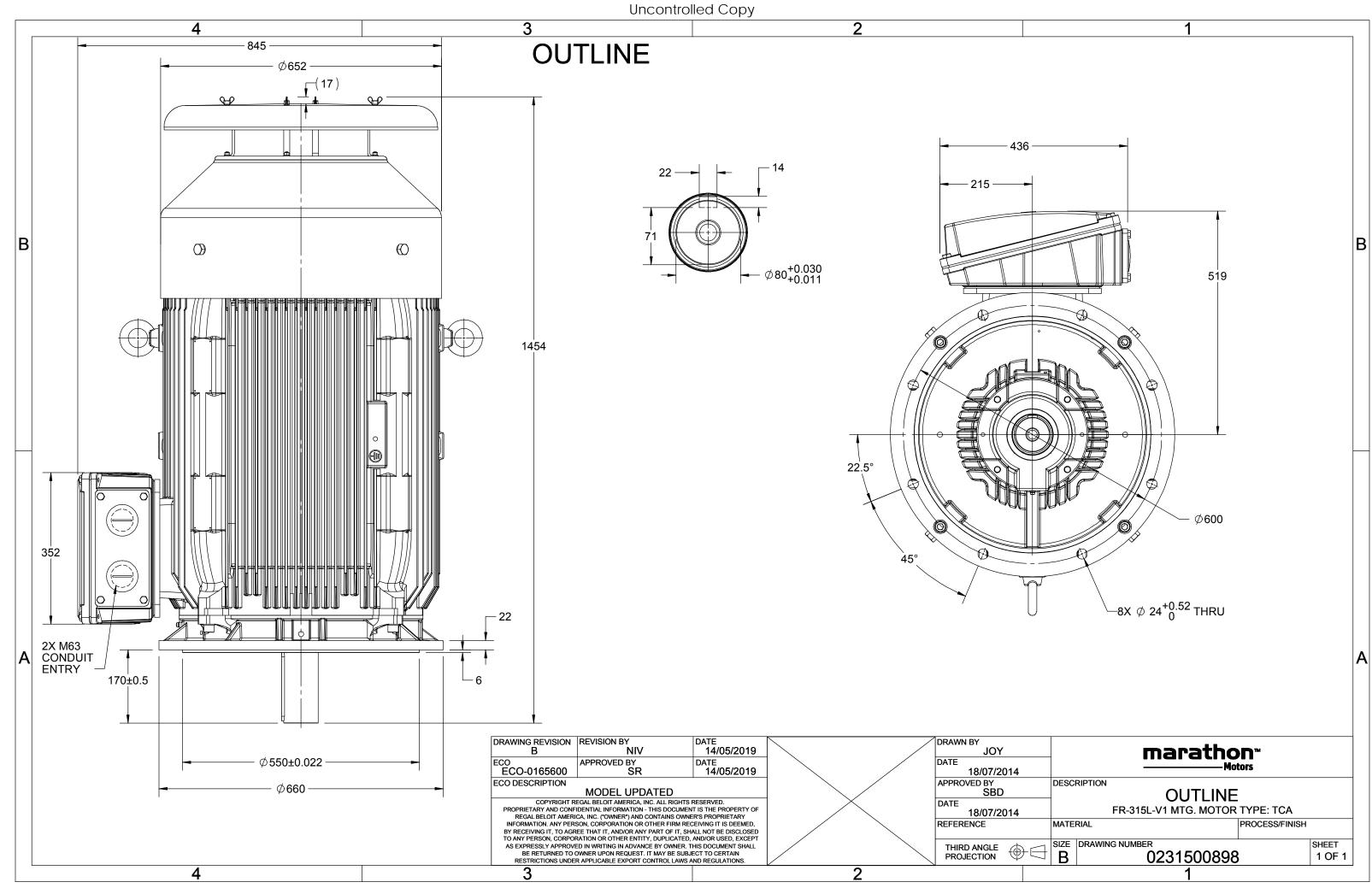
Nameplate Specifications

Output HP	215 Нр	Output KW	160.0 kW
Frequency	50 Hz	Voltage	400 V
Current	276.5 A	Speed	1487 rpm
Service Factor	1	Phase	3
Efficiency	94.9 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
Bille Elle Bearing 6126	0019	Opp Drive End Bearing Size	0319
UL	No	CSA	No
-			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1453 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500898	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. SCA1602A1141GAA001

$U = \Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ	50	160	215	276.5	1487	1029.81	IE2	-	94.9	94.9	95.5	0.88	0.86	0.79	6.3	1.9	2.8
Motor type				SCA						protecti	on				IP 55		
Enclosure				TEFC				Mo	unting	type					IM V1		
Frame Material								Coo	oling me	ethod					IC 411		
Frame size								Mo	tor wei	ght - ap	prox.				1082		kg
Duty								Gro	oss weig	ht - app	rox.				1127		kg kgm²
Voltage variation							Мо	Motor inertia						3.9773			
Frequency variat	uency variation * ± 5%							Loa	d inerti	а				Cust	omer to Provid	de	
Combined variat	,					Vib	ration l	evel					2.8		mm/s		
Design			N					Noi	Noise level (1meter distance from motor))	69		dB(A)
Service factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulation class				F				Sta	Starting method						DOL		
Ambient temper	ature			-20 to +4	40		°C	Тур	Type of coupling						Direct		
Temperature rise	e (by re	esistance	e)	80 [Class	B]		К	LR	LR withstand time (hot/cold)						30/15		
Altitude above se	ea leve	el		1000			meter	Dir	Direction of rotation						Bi-directional		
Hazardous area o	classifi	cation		NA				Sta	Standard rotation						ckwise form D	E	
Zone clas	ssificat	ion		NA				Pai	nt shad	е					RAL 5014		
Gas grou	р			NA				Acc	essorie	s							
Tempera	ture cl	ass		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor type			Al	uminum D	ie cast				Accessory - 2						-		
Bearing type						Accessory - 3					-						
DE / NDE bearing	g		63	19 C3 / 6	319 C3			Ter	Terminal box position						ТОР		
Lubrication meth	nod			Regreasa	ble					cable siz		uit size	1R	x 3C x 2	40mm²/2 x M	63 x 1.5	
Type of grease		C	HEVRO	ON SRI-2 o	r Equiva	lent		Aux	kiliary te	erminal	box			Avail	able on Reque	st	

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

T_K/T_N - Breakdown Torque / Rated Torque

 $T_{\rm A}/T_{\rm N}$ - 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

REGAL

marathon®

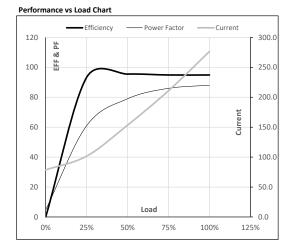


Model No. SCA1602A1141GAA001

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	160	215	276.5	1487	105.01	1029.81	IE2	40	S1	1000	3.9773	1082

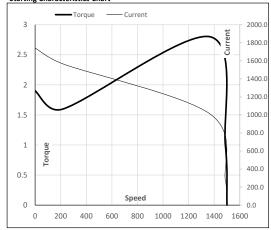
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	78.6	101.6	153.5	210.9	276.5	
Torque	Nm	0.0	255.7	512.5	770.5	1029.8	
Speed	r/min	1500	1497	1494	1490	1487	
Efficiency	%	0.0	93.3	95.5	94.9	94.9	
Power Factor	%	4.7	61.0	79.0	86.0	88.0	



Motor Speed Torque Data										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	214	1368	1487	1500				
Current	А	1742.2	1568.0	1010.3	276.5	78.6				
Torque	pu	1.9	1.6	2.8	1	0				





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

Issued By Issued Date

REGAL





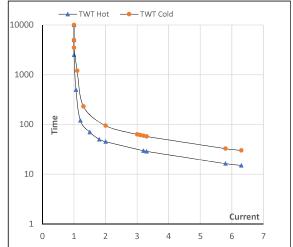
Model No. SCA1602A1141GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	400	Δ	50	160	215	276.5	1487	105.01	1029.81	IE2	40	S1	1000	3.9773	1082

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	36	27	25	20	15
TWT Cold	s	10000	61	60	55	45	40	30
Current	pu	1	2	3	4	5	5.5	6.3

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL