PRODUCT INFORMATION PACKET

Model No: QCA1102A1111GAA001 Catalog No: QCA1102A1111GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315S Frame, TEFC



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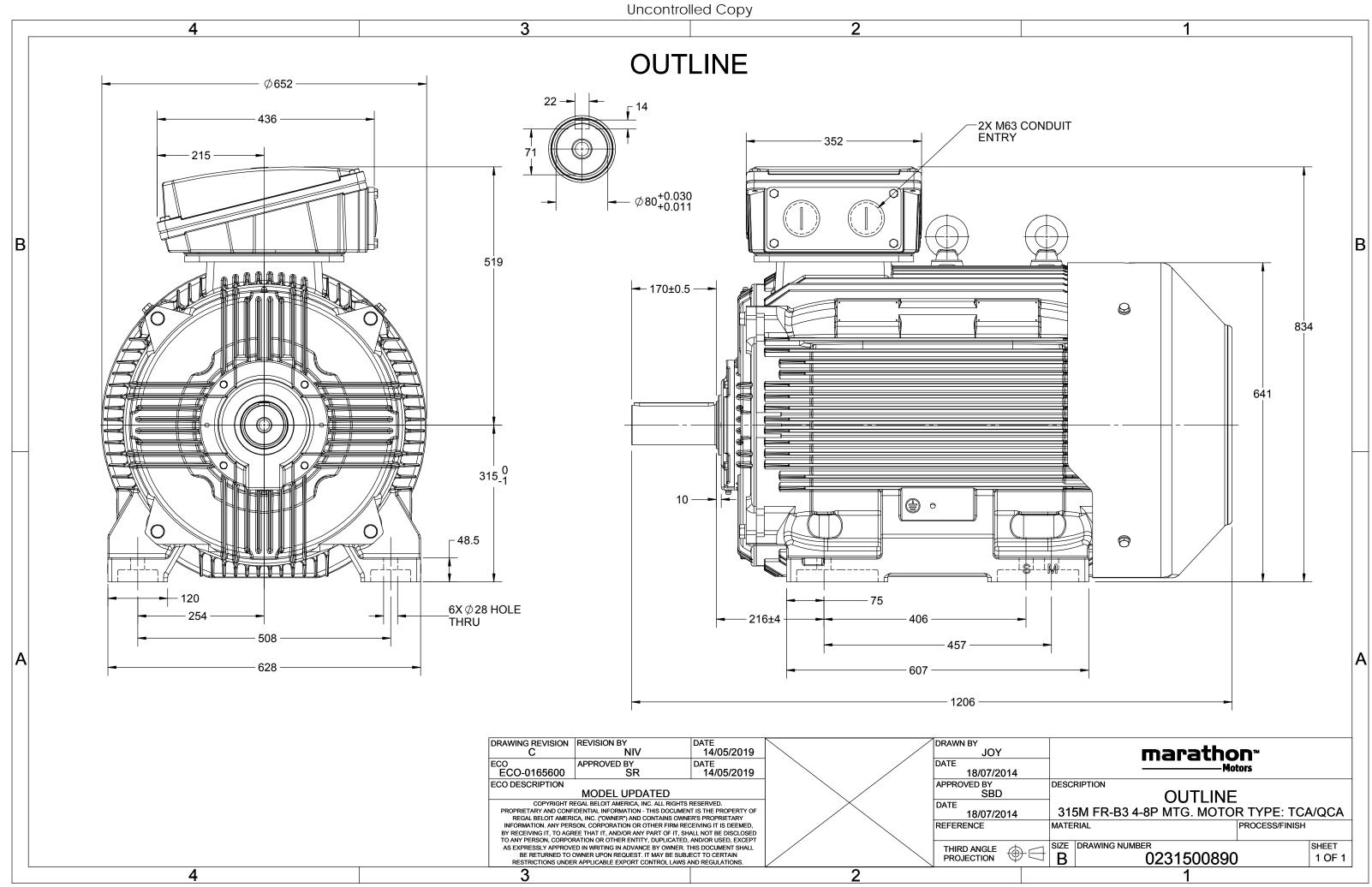
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	198.2 A	Speed	1491 rpm		
Service Factor	1	Phase	3		
Efficiency	96.3 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	315S	Enclosure	Totally Enclosed Fan Cooled		
			-		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
			40 °C 6319		
Thermal Protection	No Protection	Ambient Temperature			
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	6319		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500890	Connection Drawing	8442000085

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3 of 7





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1R x 3C x 240mm²/2 x M63 x 1.5

NA

Model No. QCA1102A1111GAA001

U	Δ / Y	f	Р	Р	1		т	IE				J		ot la	ad	1./1	т /т	т /т
-					-	n					t_load			at lo		I _A /I _N	T_A/T_N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	,	1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	110	150	196.3	1491	716.54	IE4	-	96.3	96.3	94.7	0.84	0.78	0.66	8.1	2.6	3.9
Motor	type				QCA				Deg	ree of p	protecti	on				IP 55		
Enclos	ure				TEFC				Mo	unting t	ype					IM B3		
Frame	Materia	I			Cast Iro	on			Coo	Cooling method						IC 411		
Frame	size				3155						ght - app	prox.	1063					kg
Duty					S1			Gross weight - approx.								1108		kg
Voltage	e variatio	on *			± 10%	ģ		Motor inertia							4.0682		kgm ²	
Freque	ency vari	ation *			± 5%					Load inertia						omer to Prov	vide	
Combi	ned varia	ation *			10%				Vib	Vibration level						2.8		
Design	1				Ν				Noi	Noise level (1meter distance from motor))	69		
Service	e factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulat	ion class	5			F				Star	Starting method						DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Tempe	erature ri	ise (by r	resistanc	e)	80 [Class	5 B]		К	LR v	LR withstand time (hot/cold)						15/30		S
Altitud	le above	sea lev	el		1000			meter	Dire	Direction of rotation						i-directional		
Hazard	dous area	a classif	ication		NA				Star	Standard rotation						ckwise form	DE	
	Zone cl	assifica	tion		NA				Pair	Paint shade						RAL 5014		
	Gas gro	oup			NA				Acc	Accessories								
	Temper	rature c	lass		NA					Accessory - 1						PTC 150°C		
Rotor t	type			Al	Aluminum Die cast					Accessory - 2						-		
Bearin	g type			A	Anti-frictio	n ball				Accessory - 3						-		
DE / N	DE beari	ng		63	819 C3 / 6	319 C3			Terr	minal be	ox posit	ion				TOP		

 I_A/I_N - Locked Rotor Current / Rated Current

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

Maximum cable size/conduit size

Auxiliary terminal box

 T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

Lubrication method

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Regreasable

CHEVRON SRI-2 or Equivalent

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to chang	e. There may be slight	variations between calculated va	lues in this datashe	et and the motor name	olate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	2004 -	IEC:60034-30-1

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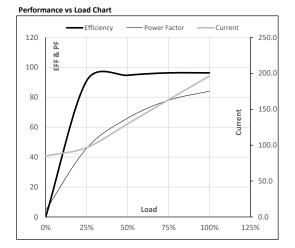


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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1063

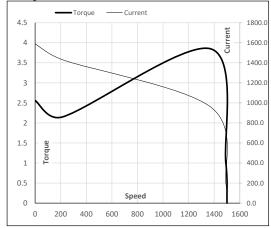
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	84.9	96.6	129.6	163.2	196.3	
Nm	0.0	178.3	357.2	536.5	716.5	
r/min	1500	1498	1495	1493	1491	
%	0.0	91.0	94.7	96.3	96.3	
%	4.5	45.9	66.0	78.0	84.0	
	Nm r/min %	A 84.9 Nm 0.0 r/min 1500 % 0.0	A 84.9 96.6 Nm 0.0 178.3 r/min 1500 1498 % 0.0 91.0	A 84.9 96.6 129.6 Nm 0.0 178.3 357.2 r/min 1500 1498 1495 % 0.0 91.0 94.7	A 84.9 96.6 129.6 163.2 Nm 0.0 178.3 357.2 536.5 r/min 1500 1498 1495 1493 % 0.0 91.0 94.7 96.3	A 84.9 96.6 129.6 163.2 196.3 Nm 0.0 178.3 357.2 536.5 716.5 r/min 1500 1498 1495 1493 1491 % 0.0 91.0 94.7 96.3 96.3



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	214	1372	1491	1500					
Current	А	1589.8	1430.8	959.7	196.3	84.9					
Torque	nu	2.6	22	39	1	0					





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

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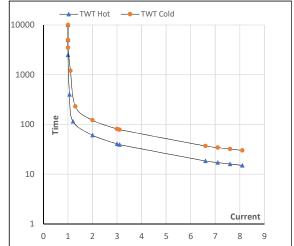
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	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150	196.3	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1063

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	61	41	30	25	20	15
TWT Cold	s	10000	122	81	60	45	40	30
Current	pu	1	2	3	4	5	5.5	8.1

Thermal Characteristics Chart



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

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