PRODUCT INFORMATION PACKET

Model No: QCA1102AF133GAA001 Catalog No: QCA1102AF133GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 315S Frame, TEFC



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Product Information Packet: Model No: QCA1102AF133GAA001, Catalog No:QCA1102AF133GAA001 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 315S Frame, TEFC

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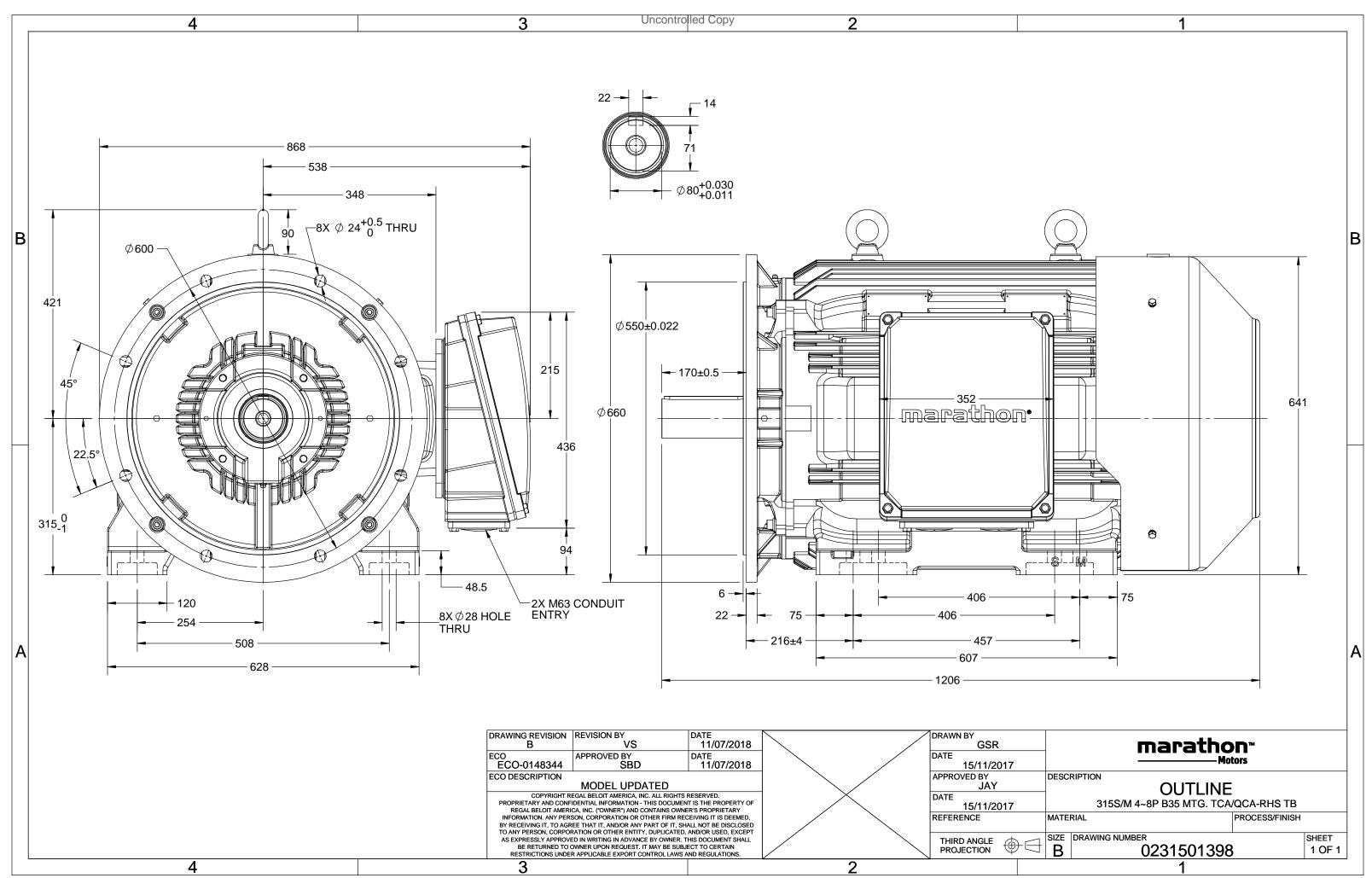
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	380 V
Current	208.7 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
	0100	Enclosure	Totally Enclosed I all occion
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501398

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U	Δ / Y	f	Р	Ρ	1	n	Т	IE	9	% EFF a	t load	ţ	PF	at lo	ad	I_A/I_N	T_A/T_N	T _K /T _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]
380	Δ	50	110	150	206.6	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	gree of	protecti	on				IP 55		
Enclos	ure				TEFC				Мо	Mounting type						IM B35		
Frame	Materia	I			Cast Iro	on			Coc	oling me	thod					IC 411		
Framo	cizo				3155				Mo	+ · · · :	-					1096		مبا

Frame size	3155		Motor weight - approx.	1086	kg
Duty	S1		Gross weight - approx.	1131	kg
Voltage variation *	± 10%		Motor inertia	4.0682	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) 69	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 resistanc	e) 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	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3 / 6319 C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 240mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	

 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

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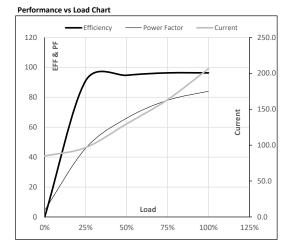


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	110	150	206.6	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1086

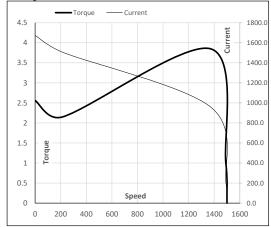
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	84.9	96.6	129.6	163.2	206.6	
Torque	Nm	0.0	178.3	357.2	536.5	716.5	
Speed	r/min	1500	1498	1495	1493	1491	
Efficiency	%	0.0	91.0	94.7	96.3	96.3	
Power Factor	%	4.5	45.9	66.0	78.0	84.0	



Motor Speed	d Torque Da	ita				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1372	1491	1500
Current	А	1673.5	1506.2	959.7	206.6	84.9
Torque	pu	2.6	2.2	3.9	1	0





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

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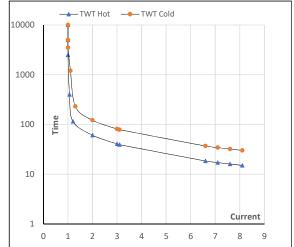
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	110	150	206.6	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1086

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	ри	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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