PRODUCT INFORMATION PACKET



Model No: QCA1322A1113GAA001 Catalog No: QCA1322A1113GAA001

TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315M Frame, TEFC





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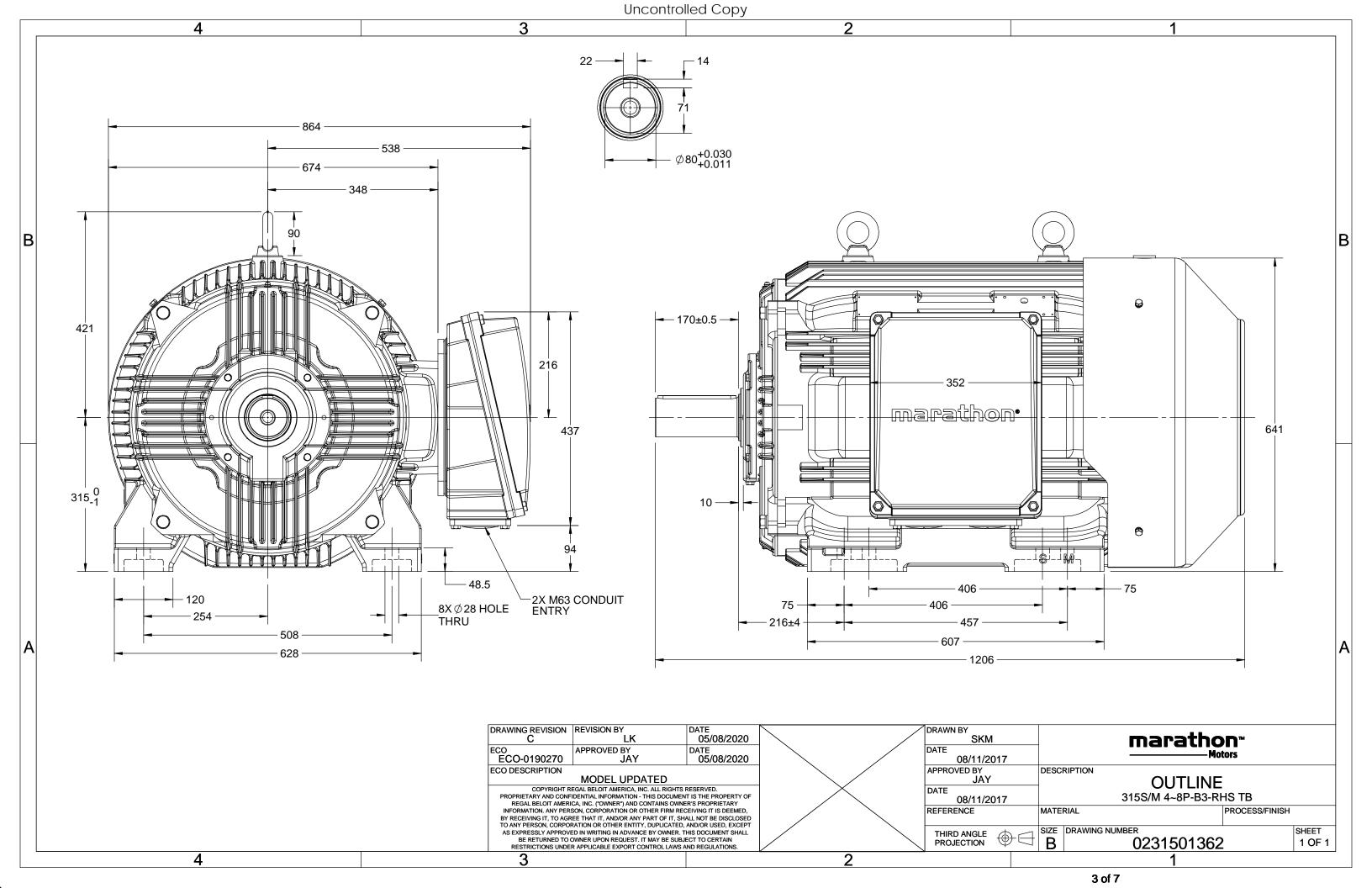
Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	400 V
Current	230.9 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96.4 %	Power Factor	0.86
Duty	S 1	Insulation Class	F
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

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	С3
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	0231501362

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. QCA1322A1113GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF a	at load	d	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]
400	Δ	50	132	175	229.8	1490	836.24	IE4	-	96.4	96.4	95.4	0.86	0.82	0.71	7.8	2.5	3.6

Motor type	QCA		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B3
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	315M		Motor weight - approx.	1103
Duty	S1		Gross weight - approx.	1148
Voltage variation *	± 10%		Motor inertia	4.3265
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	2.8
Design	N		Noise level (1meter distance from moto	or) 69
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	e) 80 [Class B]	K	LR withstand time (hot/cold)	15/30
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	1R x 3C x 240mm ² /2 x M63 x 1.5
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_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 $\,$

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC:60034-30-1

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kg kgm²

mm/s dB(A)

 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1

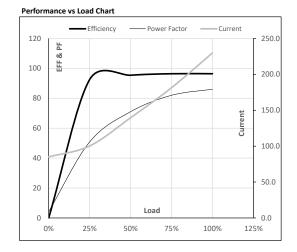




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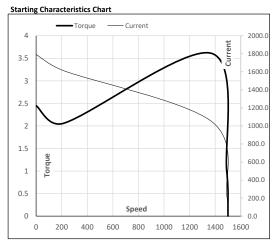
			г	Р	ı	n	Т	T	ΙE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	132	175	229.8	1490	85.27	836.24	IE4	40	S1	1000	4.3265	1103

Motor Load Data 1/2FL 3/4FL 5/4FL FL Load Point NL 1/4FL Current 85.0 100.2 139.6 181.3 229.8 Torque Nm 0.0 208.0 416.7 626.1 836.2 Speed r/min 1500 1498 1495 1493 1490 Efficiency % 0.0 92.5 95.4 96.4 96.4 50.8 82.0 Power Factor 4.2 71.0 86.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1371	1490	1500	
Current	Α	1792.6	1613.3	1050.6	229.8	85.0	
Torque	pu	2.5	2.1	3.6	1	0	



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

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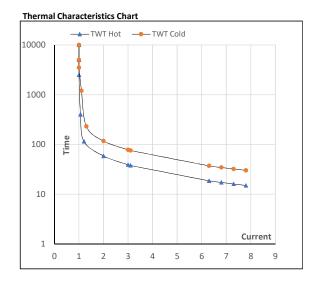




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	132	175	229.8	1490	85.27	836.24	IE4	40	S1	1000	4.3265	1103

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	59	39	30	25	20	15
TWT Cold	S	10000	117	78	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.8



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

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