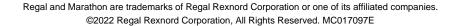
PRODUCT INFORMATION PACKET



Model No: QCA0224A1113GAA001 Catalog No: QCA0224A1113GAA001

TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225M Frame, TEFC









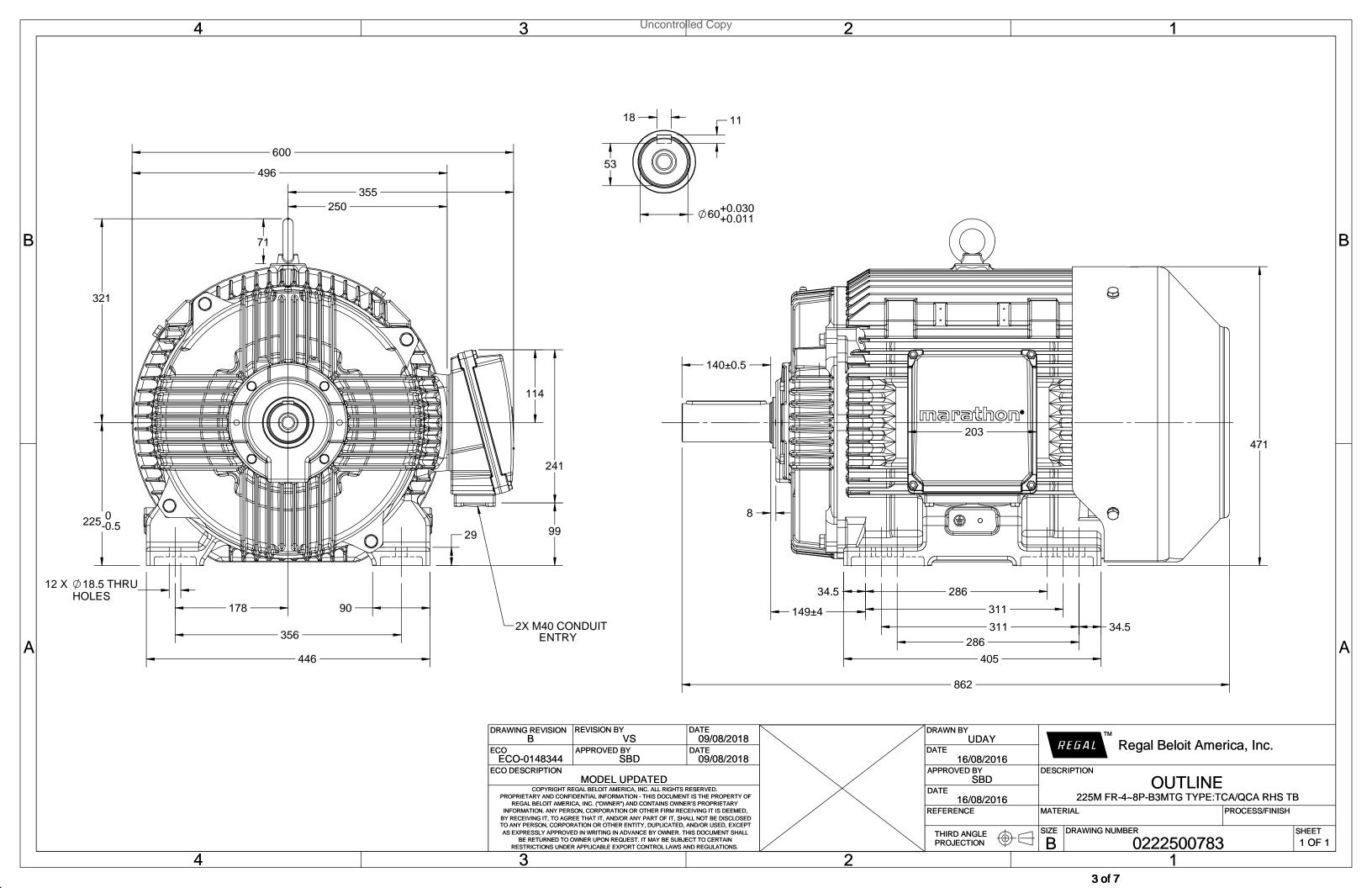
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	43.9 A	Speed	738 rpm	
Service Factor	vice Factor 1		3	
Efficiency	ency 92.1 %		0.79	
Duty	S1	Insulation Class	F	
Frame	225M	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213	
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	8	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0222500783

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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. QCA0224A1113GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF a	at loa	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	22	30	43.6	738	289.52	IE4	-	92.1	92.1	91	0.79	0.74	0.62	5.2	1.7	2.3

	064			ID FF	
Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	225M		Motor weight - approx.	404	kg
Duty	S1		Gross weight - approx.	434	kg
Voltage variation *	± 10%		Motor inertia	1.0453	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	N		Noise level (1meter distance from moto	r) 61	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 resistan	ce) 80 [Class B]	K	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	6313 C3 / 6213 C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 50mm ² /2 x M40 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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1

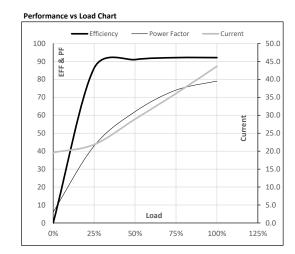




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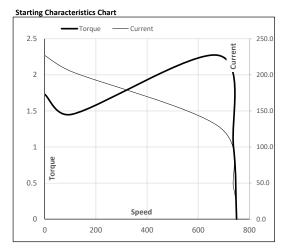
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	43.6	738	29.52	289.52	IE4	40	S1	1000	1.0453	404

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 19.6 21.8 28.9 36.1 43.6 Torque Nm 0.0 71.5 143.6 216.2 289.5 Speed r/min 750 747 744 741 738 Efficiency % 0.0 86.2 91.0 92.1 92.1 62.0 74.0 Power Factor 6.1 42.9 79.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	679	738	750
Current	Α	226.9	204.2	128.7	43.6	19.6
Torque	pu	1.7	1.5	2.3	1	0



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

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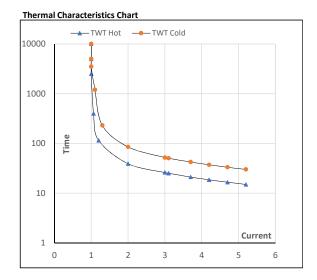




Model No. QCA0224A1113GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	Υ	50	22	30	43.6	738	29.52	289.52	IE4	40	S1	1000	1.0453	404

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	39	26	20	17	16	15
TWT Cold	S	10000	85	52	41	35	32	30
Current	pu	1	2	3	4	4.5	5	5.2



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

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