# PRODUCT INFORMATION PACKET



Model No: QCA0224A1133GAA001 Catalog No: QCA0224A1133GAA001

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





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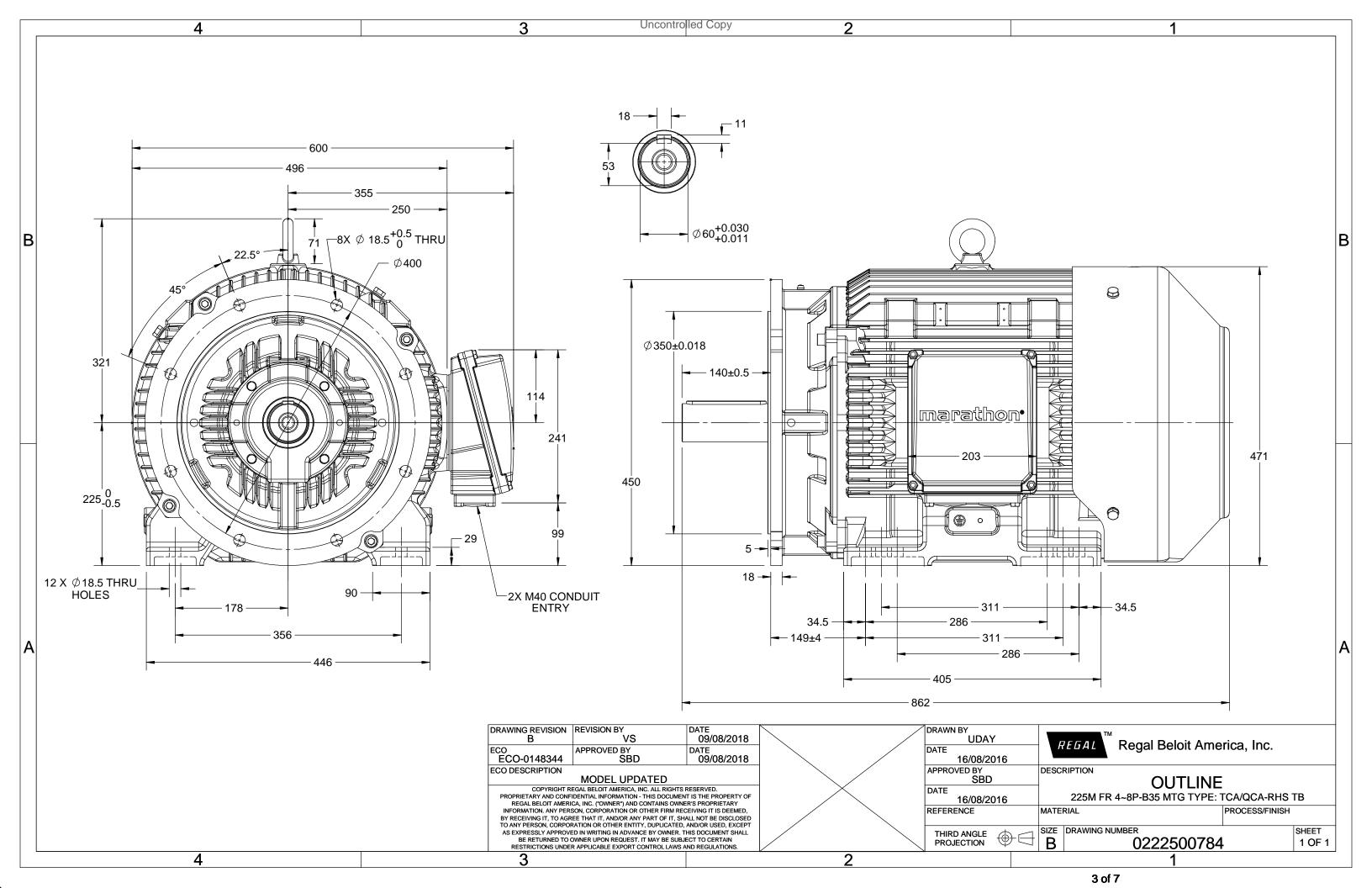
### Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	43.9 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	92.1 %	Power Factor	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		55
Number of Speeds		Efficiency Class	IE4

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0222500784	Connection Drawing	8442000085

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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. QCA0224A1133GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	t	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

QCA	
TEFC	
Cast Iron	
225M	
S1	
± 10%	
± 5%	
10%	
N	
1.0	
F	
-20 to +40	°C
e) 80 [ Class B ]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
6313 C3 / 6213 C3	
Regreasable	
CHEVRON SRI-2 or Equivalent	
	TEFC Cast Iron 225M S1 ± 10% ± 5% 10% N 1.0 F -20 to +40 e) 80 [ Class B ] 1000 NA NA NA NA Aluminum Die cast Anti-friction ball 6313 C3 / 6213 C3

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	417	kg
Gross weight - approx.	447	kg
Motor inertia	1.0453	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from mot	tor) 61	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 50mm <sup>2</sup> /2 x M40 x 1.5	
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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 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combined variation are as per IEC60034-1

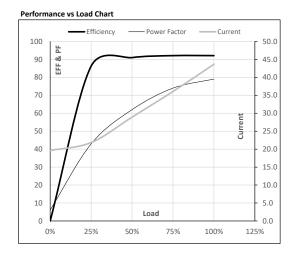




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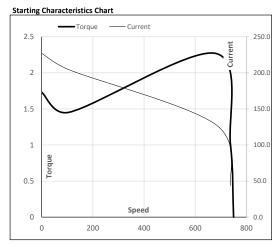
	Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 Δ 50 22 30 43.6 738 29.52 289.52 IE4 40 S1 1000 1.0453 417		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
	TEFC	400	Δ	50		30	43.6	738	29.52	289.52	IE4	40	S1	1000	1.0453	417

#### 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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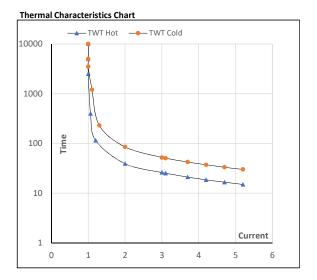




### Model No. QCA0224A1133GAA001

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	Υ	50	22	30	43.6	738	29.52	289.52	IE4	40	S1	1000	1.0453	417

Motor Speed	l Torq	ue Data						
Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	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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