# PRODUCT INFORMATION PACKET



Model No: QCA2P22A1133GAA001 Catalog No: QCA2P22A1133GAA001

TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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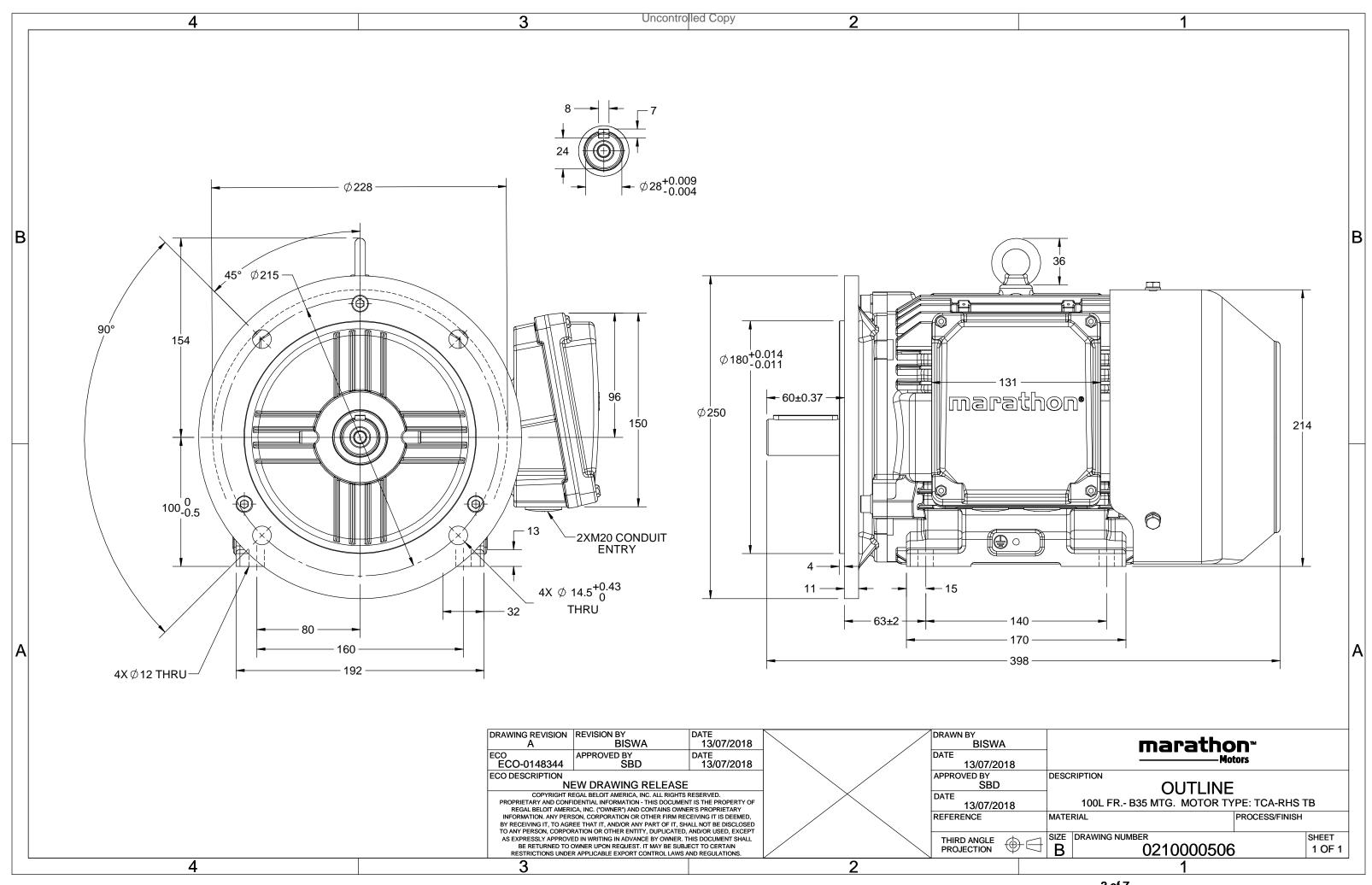
# Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW		
Frequency	50 Hz	Voltage	400 V		
Current	4.6 A	Speed	1462 rpm		
Service Factor	1	Phase	3		
Efficiency	89.5 % Power Factor		0.77		
Duty	<b>S</b> 1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
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	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0210000506

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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. QCA2P22A1133GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	IE % EFF at load			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	Υ	50	2.2	3.0	4.6	1462	14.60	IE4	-	89.5	89.5	87.7	0.77	0.69	0.54	8	3.0	3.7

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [ Class B ]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6206-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	43	kg
Gross weight - approx.	46	kg
Motor inertia	0.0125	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from motor	or) 55	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 10mm <sup>2</sup> /2 x M20 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> Voltage, Frequency and combined variation are as per IEC60034-1

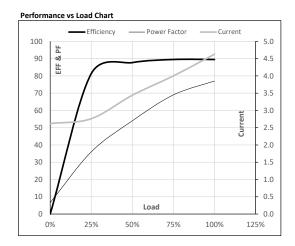




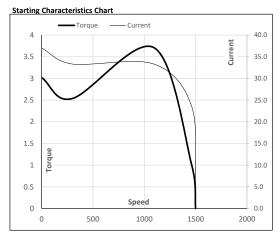
## Model No. QCA2P22A1133GAA001

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 <sup>2</sup> ]	[kg]
TEFC	400	Υ	50	2.2	3.0	4.6	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43
		•												5.0220	

#### Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 2.6 2.8 3.4 4.0 4.6 10.9 Torque Nm 0.0 3.6 7.2 14.6 1500 1473 Speed r/min 1491 1482 1462 Efficiency % 0.0 81.3 87.7 89.5 89.5 Power Factor 36.0 54.0 69.0 77.0 6.6



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 300 1094 1462 1500 0 Speed r/min Current Α 37.0 33.3 23.5 4.6 2.6 Torque 0 pu



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

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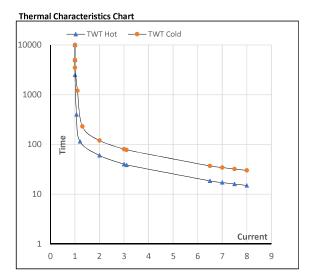




#### Model No. QCA2P22A1133GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	2.2	3.0	4.6	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43

Motor Speed Torque Data												
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR				
TWT Hot	s	10000	60	40	30	25	20	15				
TWT Cold	s	10000	120	80	60	50	40	30				
Current	pu	1	2	3	4	5	5.5	8				



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

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