PRODUCT INFORMATION PACKET

Model No: QCA0221A1133GAA001 Catalog No: QCA0221A1133GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 180M Frame, TEFC



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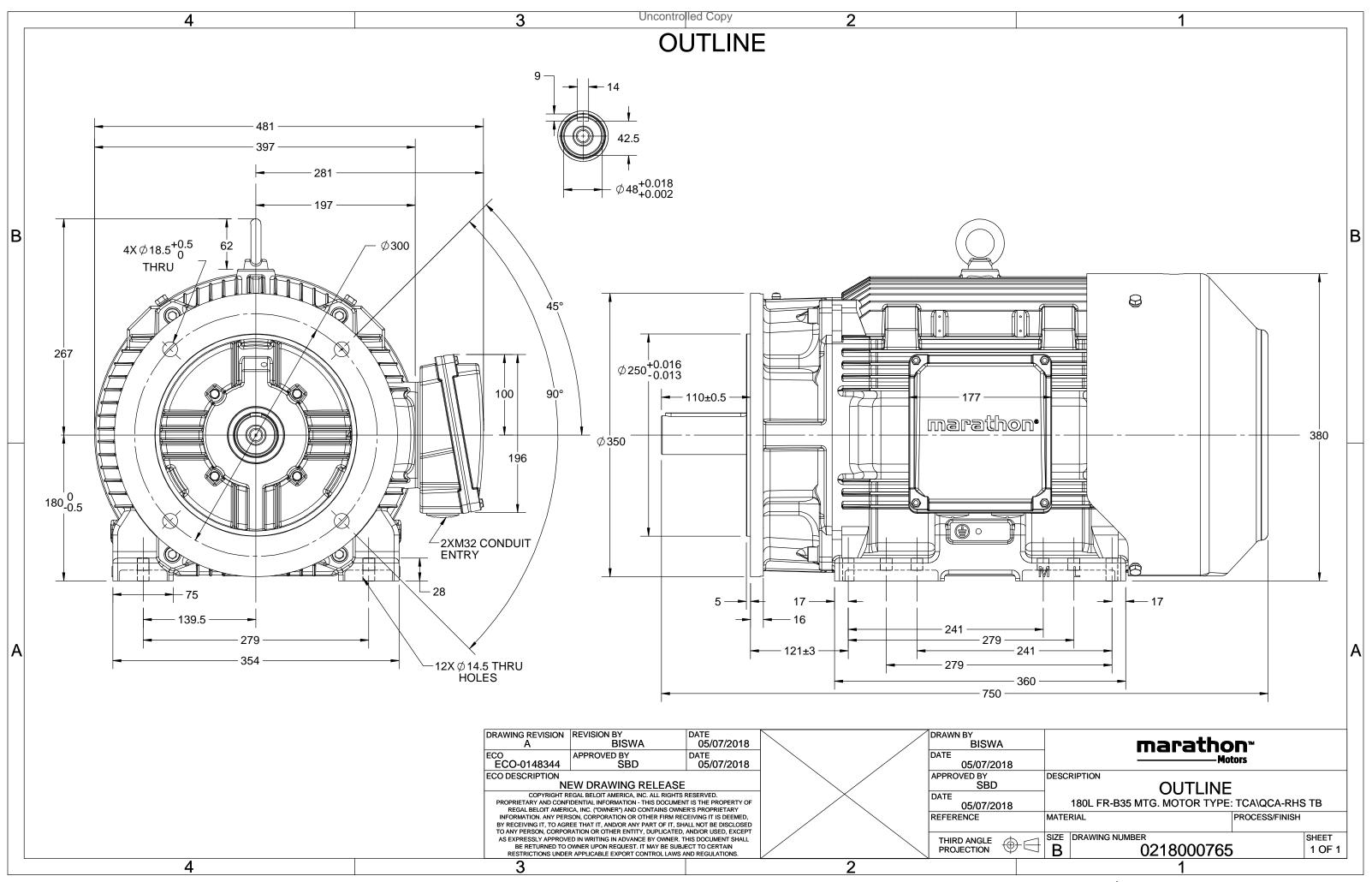
Nameplate Specifications

Output HP	30 Нр	Output KW	22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	38.1 A	Speed	2963 rpm
Service Factor	1	Phase	3
Efficiency	94 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0218000765	Connection Drawing	8442000085

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TerraMAX[®]

Bi-directional

Clockwise form DE

RAL 5014

PTC 150°C

-

RHS

1R x 3C x 35mm²/2 X M32 x 1.5

NA

Model No. QCA0221A1133GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	%	6 EFF at	load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(∨)	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	38.0	2963	72.10	IE4	-	94	94	92.5	0.89	0.86	0.77	7.4	2.2	3.6	
Motor	type				QCA				Deg	Degree of protection						IP 55			
Enclose	ure				TEFC				Mounting type					IM B35					
Frame	Material	I			Cast Iro	on			Cooling method					IC 411					
Frame	size			180M					Motor weight - approx.					257		kg			
Duty	Ξγ				S1				Gros	ss weigl	ht - app	rox.				277		kg	
Voltage	age variation *				± 10%				Mot	or inert	tia					0.1801		kgm ²	
Freque	ncy variation * ±				± 5%				Load	d inertia	9				Custo	omer to Prov	vide		
Combi	bined variation *				10%				Vibr	ation le	vel					2.2		mm/s	
Design					N				Nois	e level	(1mete	er distar	nce fron	n motor)	72		dB(A)	
Service	factor				1.0				No. of starts hot/cold/Equally spread				2/3/4						
Insulat	ion class	;			F				Star	ting me	thod					DOL			
Ambie	nt tempe	erature			-20 to +	40		°C	Туре	e of cou	pling					Direct			
Tempe	rature ri	se (by r	resistanc	e)	80 [Class	s B]		К	LR w	/ithstan	id time	(hot/co	ld)			15/30		s	

meter

Direction of rotation

Accessory - 1

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

Standard rotation

Paint shade

Accessories

I_A/I_N - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

Altitude above sea level

Hazardous area classification

Gas group

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

Zone classification

Temperature class

 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

1000

NA

NA

NA

NA

Aluminum Die cast

Anti-friction ball

6311-2Z / 6211-2Z

Greased for life

NA

* Voltage, Frequency and combined variation are as per IEC60034-1

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 1359:5:200)4 -	IEC 60034-30-1					

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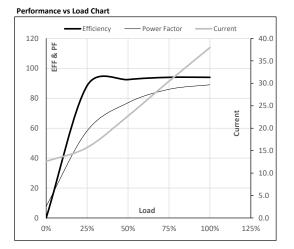


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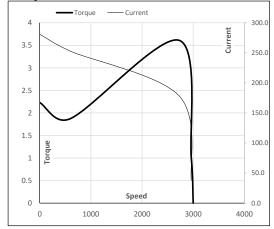
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	38.0	2963	7.35	72.10	IE4	40	S1	1000	0.1801	257
											-				

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.6	15.7	22.7	30.5	38.0	
Torque	Nm	0.0	17.9	35.8	53.9	72.1	
Speed	r/min	3000	2991	2982	2973	2963	
Efficiency	%	0.0	88.4	92.5	94.0	94.0	
Power Factor	r %	7.8	58.2	77.0	86.0	89.0	
		••••					



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 600 2725 2963 3000 Current А 280.9 252.8 178.4 38.0 12.6 Torque ри 2.2 1.9 3.6 1 0

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

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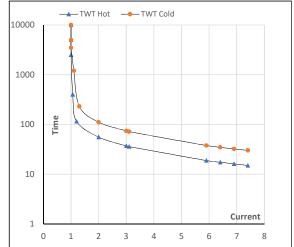
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	38.0	2963	7.35	72.10	IE4	40	S1	1000	0.1801	257

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	56	37	30	25	20	15
TWT Cold	s	10000	111	74	65	50	45	30
Current	pu	1	2	3	4	5	5.5	7.4

Thermal Characteristics Chart



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

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