PRODUCT INFORMATION PACKET

Model No: QCA0372AF133GAA001 Catalog No: QCA0372AF133GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 225S Frame, TEFC



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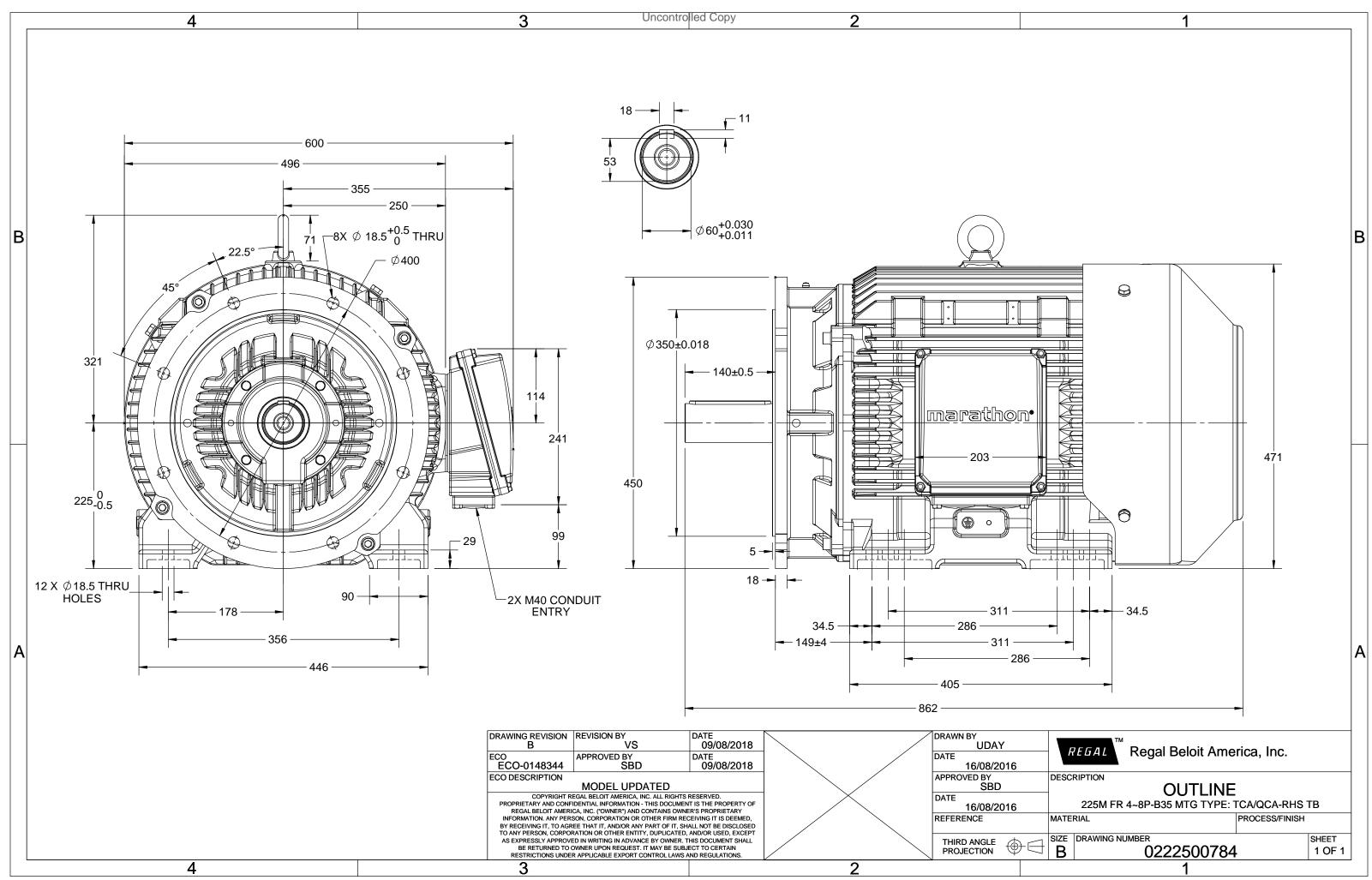
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380 V
Current	71.6 A	Speed	1486 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	225\$	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213
		-	
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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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Model No. QCA0372AF133GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	ġ	% EFF at	t_load	ł	PF	at lo	ad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380	Δ	50	37	50	71.1	1486	239.59	IE4	-	95.2	95.2	94.5	0.83	0.77	0.65	8.4	2.9	3.7
Motor	type				QCA				Deg	ree of p	protectio	on				IP 55		
Enclosu	ure				TEFC				Mo	unting t	vpe					IM B35		

Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	2255		Motor weight - approx.	430	kg
Duty	S1		Gross weight - approx.	460	kg
Voltage variation *	± 10%		Motor inertia	0.7702	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	r) 65	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 resistance)	80 [Class B]	К	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 1	R x 3C x 50mm²/2 x M40 x 1.5	
Type of grease CHI	EVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 $T_{\rm A}/T_{\rm N}$ - Locked Rotor 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

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

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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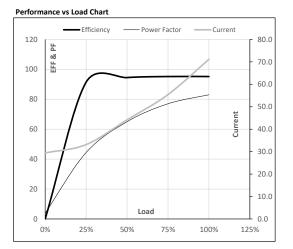


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	37	50	71.1	1486	24.43	239.59	IE4	40	S1	1000	0.7702	430

Motor Load Data

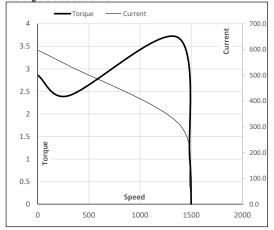
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	29.4	33.1	44.2	55.4	71.1	
Torque	Nm	0.0	59.5	119.2	179.3	239.6	
Speed	r/min	1500	1497	1493	1490	1486	
Efficiency	%	0.0	91.4	94.5	95.2	95.2	
Power Factor	%	3.9	44.4	65.0	77.0	83.0	
Power Factor	%	3.9	44.4	65.0	77.0	83.0	_



Motor Speed Torque Data

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Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1367	1486	1500	
Current	А	597.6	537.9	316.7	71.1	29.4	
Torque	pu	2.9	2.4	3.7	1	0	

Starting Characteristics Chart



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

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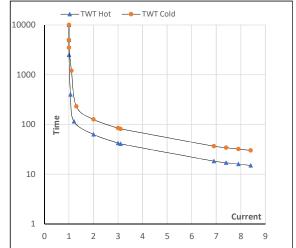
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	37	50	71.1	1486	24.43	239.59	IE4	40	S1	1000	0.7702	430

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	63	42	34	25	20	15
TWT Cold	s	10000	126	84	70	55	50	30
Current	pu	1	2	3	4	5	5.5	8.4

Thermal Characteristics Chart



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

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