PRODUCT INFORMATION PACKET



Model No: QCA7P53A1133GAA001 Catalog No: QCA7P53A1133GAA001

TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160M Frame, TEFC



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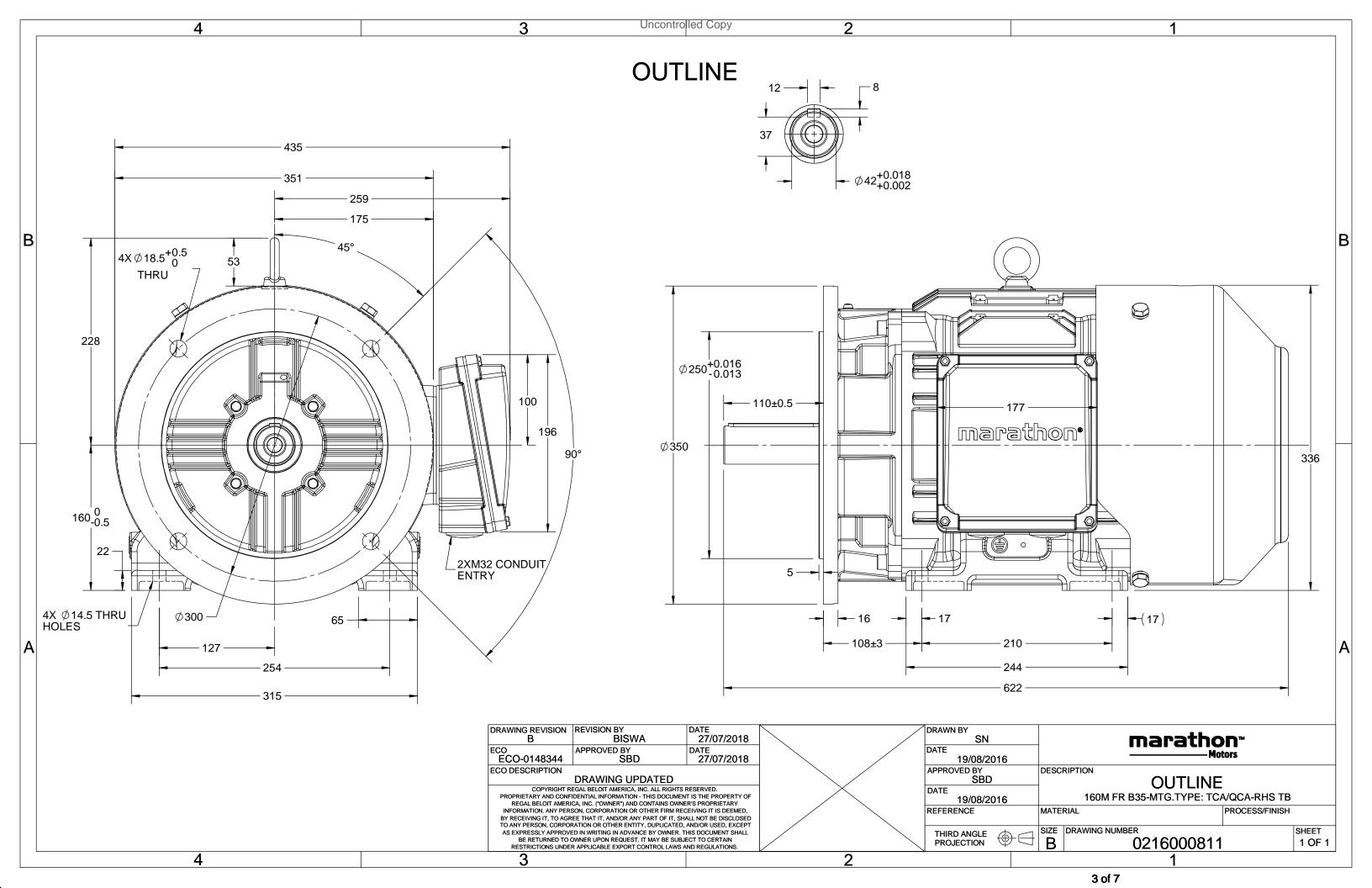
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	15.3 A	Speed	981 rpm
Service Factor	1	Phase	3
Efficiency	91.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	6	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	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0216000811	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.

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Model No. QCA7P53A1133GAA001

U	Δ/Υ	f	Р	Р	1	n	T	IE	9	% EFF a	t load	ł	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	7.5	10	15.2	981	72.60	IE4	-	91.3	91.3	89.2	0.78	0.71	0.57	6.4	2.2	3.0

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160M	
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	6309-2Z / 6209-2Z	
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.	156	kg
Gross weight - approx.	176	kg
Motor inertia	0.1626	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	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 35mm ² /2 X M32 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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1

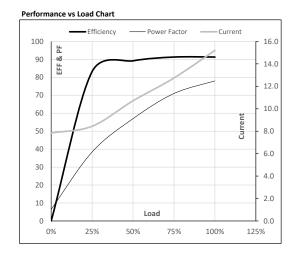




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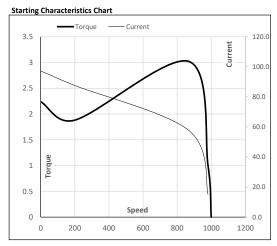
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10	15.2	981	7.40	72.60	IE4	40	S1	1000	0.1626	156

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	7.8	8.4	10.7	12.7	15.2	
Torque	Nm	0.0	17.9	35.9	54.2	72.6	
Speed	r/min	1000	995	991	986	981	
Efficiency	%	0.0	83.2	89.2	91.3	91.3	
Power Factor	%	6.5	38.4	57.0	71.0	78.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	869	981	1000	
Current	Α	97.3	87.6	57.6	15.2	7.8	
Torque	pu	2.2	1.9	3.0	1	0	



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

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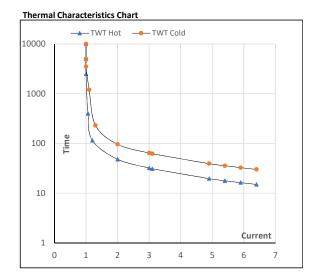




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	7.5	10	15.2	981	7.40	72.60	IE4	40	S1	1000	0.1626	156

Motor Speed Torque Data								
Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	48	32	20	18	17	15
TWT Cold	S	10000	96	64	50	38	34	30
Current	pu	1	2	3	4	5	5.5	6.4



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

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