PRODUCT INFORMATION PACKET



Model No: QCAP751AF181GAA001 Catalog No: QCAP751AF181GAA001

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 80M Frame, TEFC



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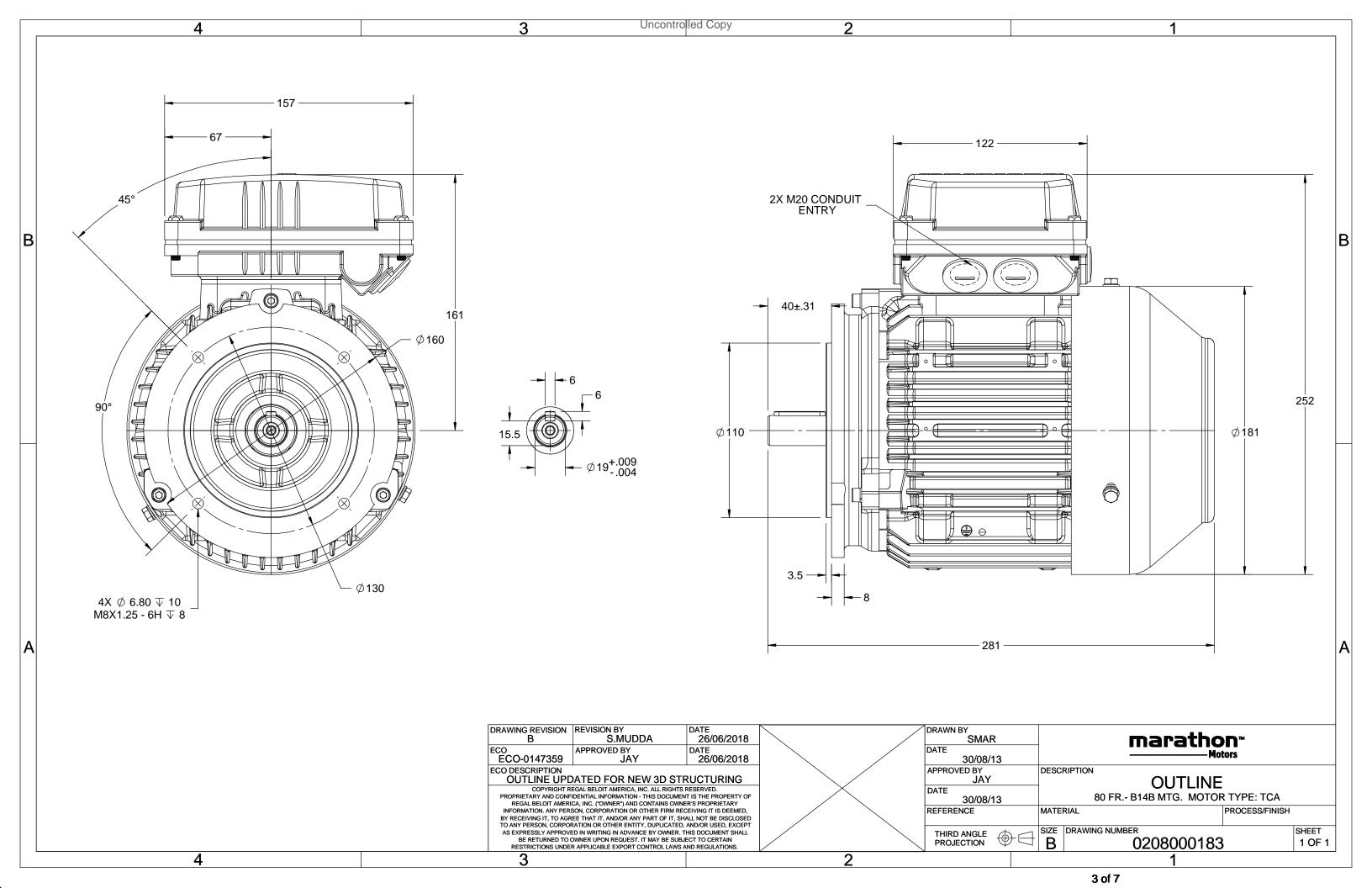
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW		
Frequency	50 Hz	Voltage	380 V		
Current	1.6 A	Speed	2885 rpm		
Service Factor	1	Phase	3		
Efficiency	83.5 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	80M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204		
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	2	Rotation	Bi-Directional
Mounting	B14B	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0208000183	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. QCAP751AF181GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	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]
380	Υ	50	0.75	1.0	1.6	2885	2.47	IE4	-	83.5	83.5	80.6	0.84	0.78	0.66	7.2	3.5	3.9

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
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	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B14B	
Cooling method	IC 411	
Motor weight - approx.	21.0	kg
Gross weight - approx.	22.0	kg
Motor inertia	0.0016	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor)	56	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	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1R	x 3C x 10mm²/2 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 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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

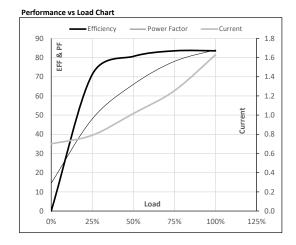




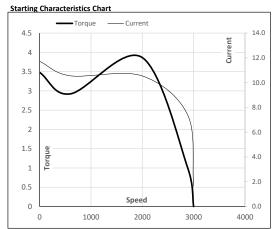
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Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Υ	50	0.75	1.0	1.6	2885	0.25	2.47	IE4	40	S1	1000	0.0016	21.0

Motor Load D	Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL							
Current	Α	0.7	0.8	1.0	1.3	1.6								
Torque	Nm	0.0	0.6	1.2	1.8	2.5								
Speed	r/min	3000	2970	2944	2916	2885								
Efficiency	%	0.0	71.2	80.6	83.5	83.5								
Power Factor	%	14.5	48.0	66.0	78.0	84.0								



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 1993 2885 3000 Speed r/min 10.5 Current Α 11.7 7.4 1.6 0.7 Torque pu



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

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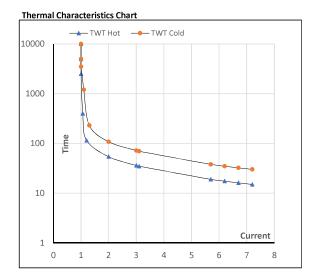




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Υ	50	0.75	1.0	1.6	2885	0.25	2.47	IE4	40	S1	1000	0.0016	21.0

Motor Speed	d Torq	ue Data	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l₃	I ₄	I ₅	LR								
TWT Hot	s	10000	54	36	30	25	19	15								
TWT Cold	S	10000	108	72	60	50	39	30								
Current	pu	1	2	3	4	5	5.5	7.2								



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

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