PRODUCT INFORMATION PACKET



Model No: QCA0113AF171GAA001 Catalog No: QCA0113AF171GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 160L Frame, TEFC





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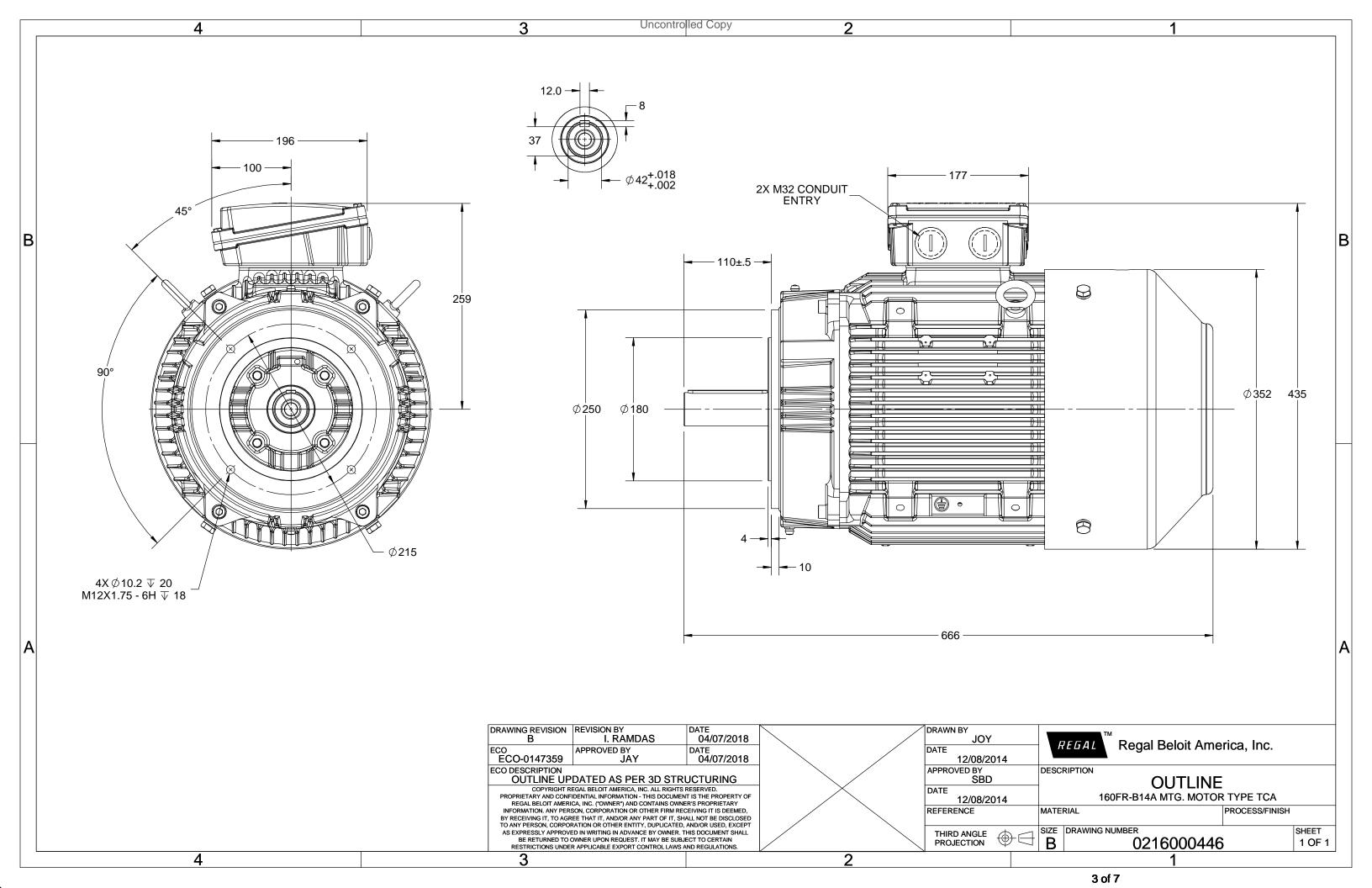
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	24.1 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	160L	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
E 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	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000446	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. QCA0113AF171GAA001

U	Δ/Υ	f	Р	Р	- 1	n	T	IE	9	% EFF a	t load	i	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	Δ	50	11	15	23.8	984	108.63	IE4	-	92.3	92.3	89.7	0.76	0.67	0.53	7.7	3.1	3.5

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160L	
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 B14A					
Cooling method	IC 411					
Motor weight - approx.	191	kg				
Gross weight - approx.	211	kg				
Motor inertia	0.2398	kgm²				
Load inertia	Customer to Provide					
Vibration level	2.2	mm/s				
Noise level (1meter distance from mot	cor) 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	TOP					
Maximum cable size/conduit size	1R x 3C x 35mm²/2 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

 $T_{\rm K}/T_{\rm N}$ - 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

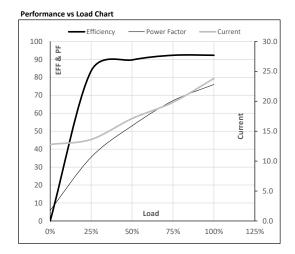




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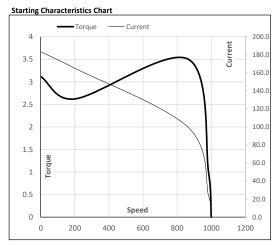
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	191

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 12.8 13.6 17.1 19.8 23.8 Torque Nm 0.0 26.8 53.9 81.1 108.6 Speed r/min 1000 996 992 988 984 Efficiency % 0.0 83.5 89.7 92.3 92.3 35.5 53.0 67.0 Power Factor 5.9 76.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	866	984	1000	
Current	Α	183.5	165.1	99.4	23.8	12.8	
Torque	pu	3.1	2.6	3.5	1	0	



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

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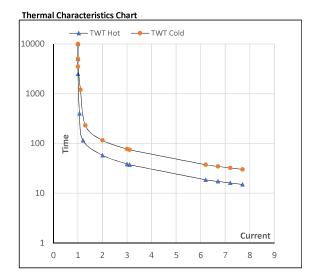




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	191

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR						
TWT Hot	s	10000	58	39	30	25	20	15						
TWT Cold	S	10000	116	77	60	45	40	30						
Current	pu	1	2	3	4	5	5.5	7.7						



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

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