PRODUCT INFORMATION PACKET

Model No: QCA0113AF131GAA001 Catalog No: QCA0113AF131GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 160L Frame, TEFC



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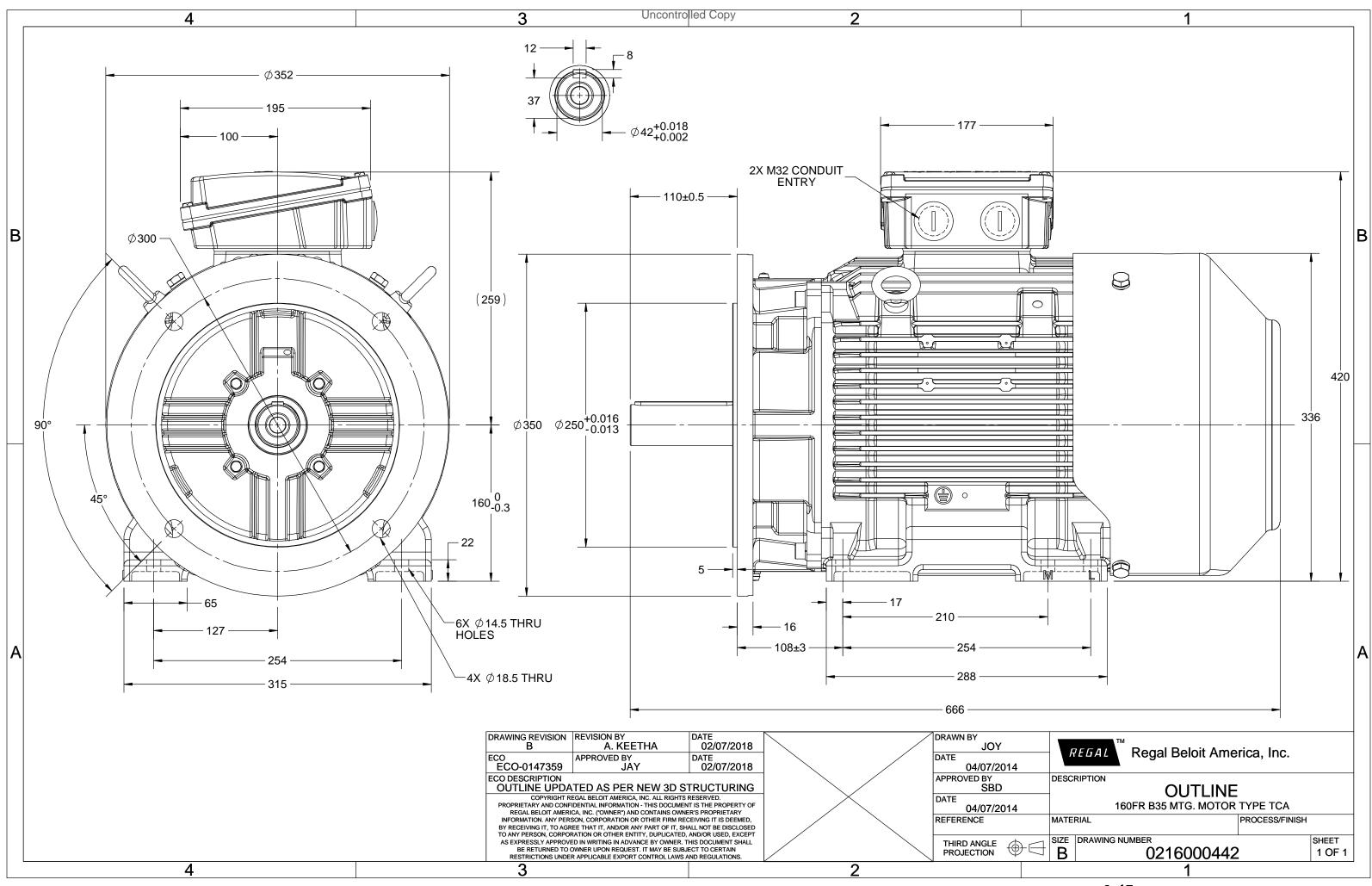
Nameplate Specifications

Output HP	15 Нр	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	1601	Enclosure	Totally England For Cooled
FIGILIE	160L	Eliciosule	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000442

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF at	:load	ł	PF	at lo	ad	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]
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				Deg	Degree of protection						IP 55		
Enclosu	ure				TEFC				Мо	unting 1	ype			IM B35				
Frame	Material				Cast Ir	on			Cooling method			IC 411						
Frame	size				160L				Мо	tor wei	ght - app	orox.				197		kg
Duty					S1				Gro	ss weig	ht - app	rox.				217		kg

Duty	51		Gross weight - approx.	21/	٨g
Voltage variation *	± 10%		Motor inertia	0.2398	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 mot	or) 61	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	6309-2Z / 6209-2Z		Terminal box position	ТОР	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_A/T_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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Enclosure	U	Δ / Y	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 3	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

Motor Load Data

Motor Speed Torque Data

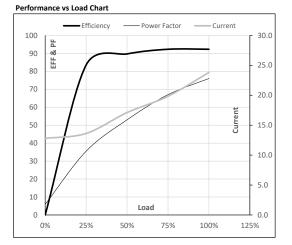
Load Point

Speed

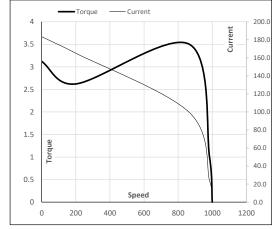
Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	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	
Power Factor	%	5.9	35.5	53.0	67.0	76.0	



Starting Characteristics Chart



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

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r/min 0 200 866 984 1000 183.5 165.1 99.4 23.8 12.8 А ри 3.1 2.6 3.5 1 0

BD

Rated

NL

P-Up

LR





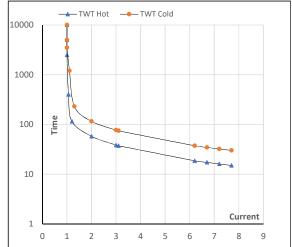
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

Motor Speed Torque Data

Load		FL	I_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	ри	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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