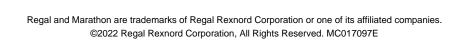
PRODUCT INFORMATION PACKET



Model No: QCA5P51AF131GAA001 Catalog No: QCA5P51AF131GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 132S Frame, TEFC









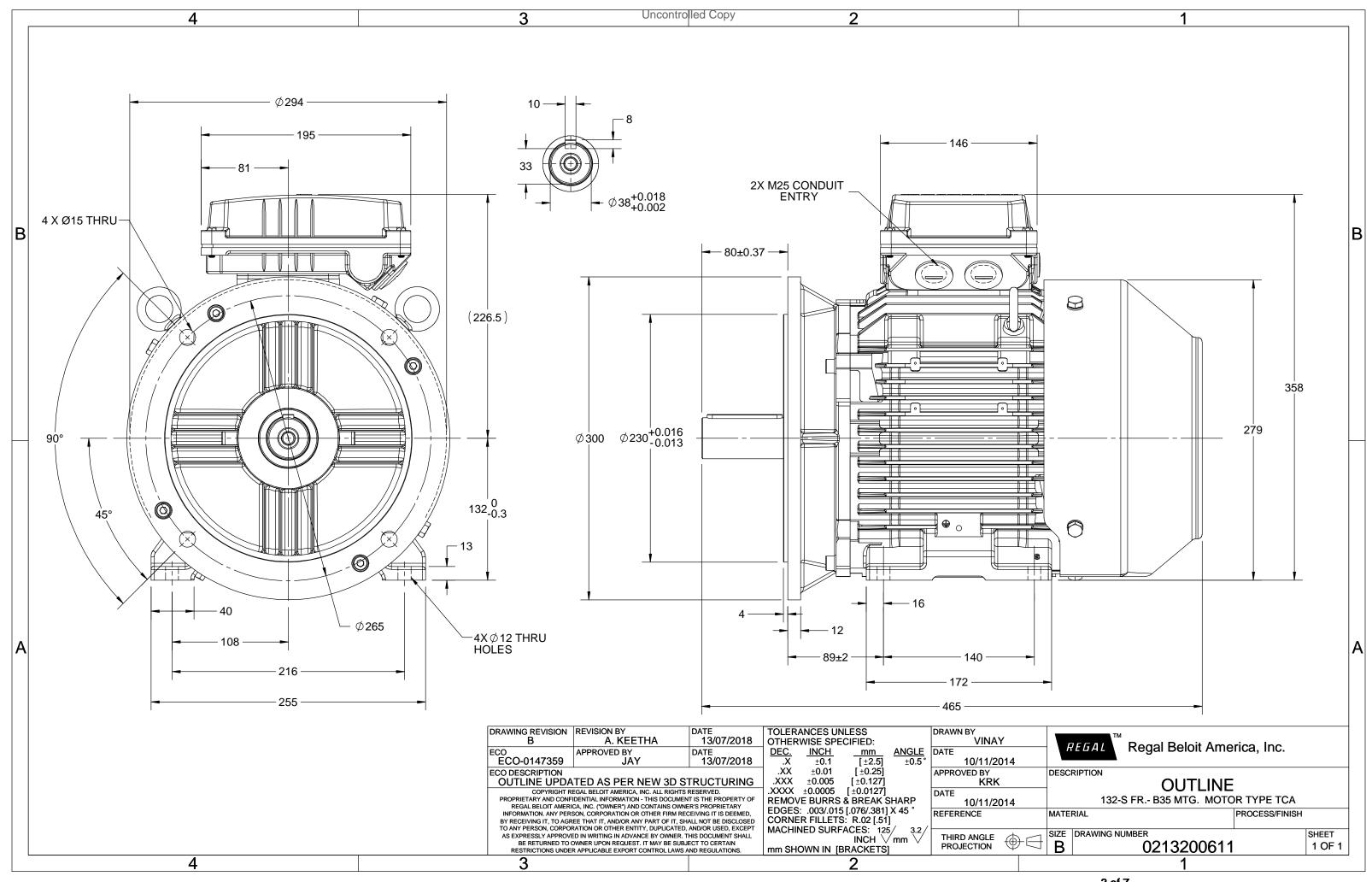
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW		
Frequency	50 Hz	Voltage	380 V		
Current	10.6 A	Speed	2945 rpm		
Service Factor	1	Phase	3		
Efficiency	90.9 %	Power Factor	0.88		
Duty	S1	Insulation Class	F		
Frame	1328	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208		
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	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200611	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. QCA5P51AF131GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	oad	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	5.5	7.5	10.4	2945	18.14	IE4	-	90.9	90.9	88.9	0.88	0.83	0.72	8.6	2.9	4.3

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132S	
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	6308-2Z / 6208-2Z	
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. 83 kg Gross weight - approx. 86 kg Motor inertia 0.0199 kgm² Load inertia Customer to Provide Vibration level 1.6 mm/s Noise level (1meter distance from motor) 64 dB(A) No. of starts hot/cold/Equally spread 2/3/4
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Noise level (1meter distance from motor) 64 dB(A)
Troise lever (Infected distance from motor)
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 16mm²/2 x M25 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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 $[\]ensuremath{^{*}}\xspace$ Voltage, Frequency and combine variation are as per IEC60034-1

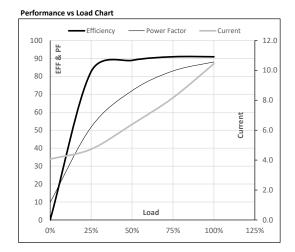




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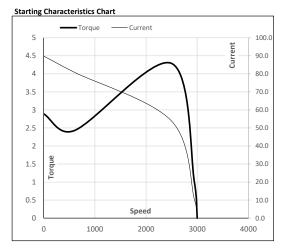
								IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380	Δ 50	5.5	7.5	10.4	2945	1.85	18.14	IE4	40	S1	1000	0.0199	83

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 4.1 6.4 8.2 10.4 Torque Nm 0.0 4.5 9.0 13.5 18.1 Speed r/min 3000 2986 2973 2959 2945 Efficiency % 0.0 82.6 88.9 90.9 90.9 83.0 Power Factor 9.8 51.7 72.0 88.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2497	2945	3000
Current	Α	89.8	80.9	53.9	10.4	4.1
Torque	pu	2.9	2.4	4.3	1	0



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

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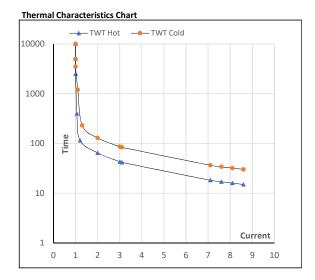




Model No. QCA5P51AF131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	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	380	Δ	50	5.5	7.5	10.4	2945	1.85	18.14	IE4	40	S1	1000	0.0199	83

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	65	43	35	30	25	15
TWT Cold	S	10000	129	86	60	45	40	30
Current	pu	1	2	3	4	5	5.5	8.6



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

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