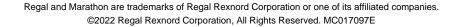
PRODUCT INFORMATION PACKET



Model No: QCA0754AF131GAA001 Catalog No: QCA0754AF131GAA001

TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 315M Frame, TEFC







Product Information Packet: Model No: QCA0754AF131GAA001, Catalog No:QCA0754AF131GAA001 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 315M Frame, TEFC



Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	380 V
Current	161.2 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.76
Duty	S 1	Insulation Class	F
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	YES	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Squirrel Cage	Starting Method	Direct On Line
8	Rotation	Bi-Directional
B35	Motor Orientation	Horizontal
СЗ	Opp Drive End Bearing	С3
Cast Iron	Shaft Type	Keyed
1206 mm	Frame Length	729 mm
80 mm	Shaft Extension	170 mm
Тор		
0231500891	Connection Drawing	8442000085
	8 B35 C3 Cast Iron 1206 mm 80 mm Top	8 Rotation B35 Motor Orientation C3 Opp Drive End Bearing Cast Iron Shaft Type 1206 mm Frame Length 80 mm Shaft Extension Top

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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. QCA0754AF131GAA001

U	Δ/Υ	f	Р	Р	1	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	Δ	50	75	100	159.2	743	959.07	IE4	-	94.2	94.2	92.6	0.76	0.7	0.59	5	1.9	2.1

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315M	
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	ce) 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	6319 C3 / 6319 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

	10.55	
Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	1033	kg
Gross weight - approx.	1078	kg
Motor inertia	5.2457	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 64	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 240mm²/2 x M63 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

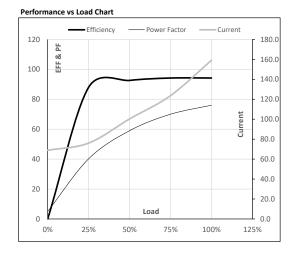




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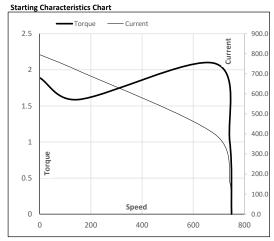
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	75	100	159.2	743	97.80	959.07	IE4	40	S1	1000	5.2457	1033

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	68.8	76.1	100.3	123.6	159.2	
Torque	Nm	0.0	238.1	477.2	717.4	959.1	
Speed	r/min	750	748	747	745	743	
Efficiency	%	0.0	88.0	92.6	94.2	94.2	
Power Factor	%	5.0	40.2	59.0	70.0	76.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	684	743	750
Current	Α	795.8	716.3	399.7	159.2	68.8
Torque	pu	1.9	1.6	2.1	1	0



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

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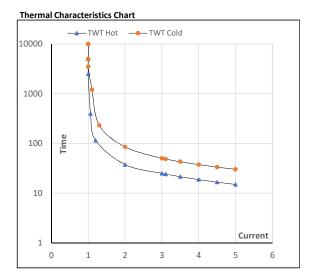




Model No. QCA0754AF131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	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	75	100	159.2	743	97.80	959.07	IE4	40	S1	1000	5.2457	1033

Motor Speed Torque Data								
Load		FL	I_1	l ₂	I ₃	I ₄	I ₅	LR
TWT Hot	S	10000	38	25	21	19	17	15
TWT Cold	S	10000	85	50	43	38	33	30
Current	pu	1	2	3	3.5	4	4.5	5



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

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