PRODUCT INFORMATION PACKET



Model No: QCA0112AF111GAA001 Catalog No: QCA0112AF111GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 160M Frame, TEFC





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Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	22.5 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	93.3 %	Power Factor	0.8
Duty	S 1	Insulation Class	F
Frame	160M	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
CE YES		IP Code	55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	622 mm	Frame Length	254 mm	
Shaft Diameter	42 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0216000479	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







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U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	t	PI	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	22.4	1479	72.22	IE4	-	93.3	93.3	91.2	0.8	0.73	0.59	8.2	3.1	4.0

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	160M		Motor weight - approx.	157	kg
Duty	S1		Gross weight - approx.	177	kg
Voltage variation *	± 10%		Motor inertia	0.1331	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	N		Noise level (1meter distance from motor	or) 64	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]	K	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	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	.R 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_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

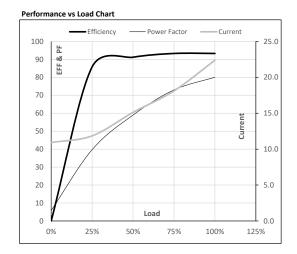




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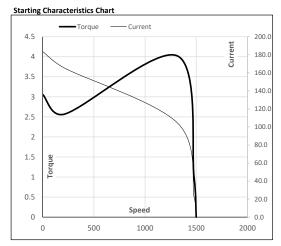
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	22.4	1479	7.36	72.22	IE4	40	S1	1000	0.1331	157

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	10.9	11.9	15.1	18.1	22.4	
Torque	Nm	0.0	17.9	35.9	54.0	72.2	
Speed	r/min	1500	1495	1490	1485	1479	
Efficiency	%	0.0	85.8	91.2	93.3	93.3	
Power Factor	%	5.8	39.7	59.0	73.0	80.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1318	1479	1500	
Current	Α	183.6	165.2	104.3	22.4	10.9	
Torque	pu	3.1	2.6	4.0	1	0	



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

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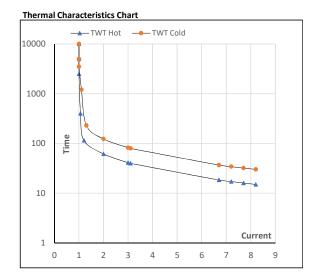




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	11	15	22.4	1479	7.36	72.22	IE4	40	S1	1000	0.1331	157

Motor Speed	Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR					
TWT Hot	S	10000	62	41	30	25	20	15					
TWT Cold	S	10000	123	82	60	50	39	30					
Current	pu	1	2	3	4	5	5.5	8.2					



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

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