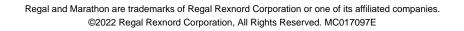
PRODUCT INFORMATION PACKET



Model No: QCA0751A1111GAA001 Catalog No: QCA0751A1111GAA001

TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 280S Frame, TEFC









Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400 V
Current	127.1 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.6 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
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	В3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1060 mm	Frame Length	549 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0228000607	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. QCA0751A1111GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	l	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]
400	Δ	50	75	100	125.8	2984	238.68	IE4	-	95.6	95.6	94.2	0.9	0.86	0.78	8	2.3	3.9

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	280S	
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	e) 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	6314 C3 / 6314 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	787	kg
Gross weight - approx.	822	kg
Motor inertia	1.3925	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 76	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 95mm²/2 x M50 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 slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC:60034-30-1

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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1

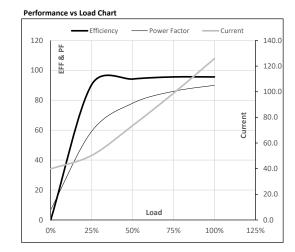




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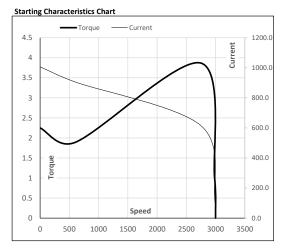
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	75	100	125.8	2984	24.34	238.68	IE4	40	S1	1000	1.3925	787

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	39.8	50.3	73.6	98.8	125.8	
Torque	Nm	0.0	59.4	119.0	178.7	238.7	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	90.4	94.2	95.6	95.6	
Power Factor	%	6.8	59.2	78.0	86.0	90.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2745	2984	3000	
Current	Α	1006.5	905.9	617.0	125.8	39.8	
Torque	pu	2.3	1.9	3.9	1	0	



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

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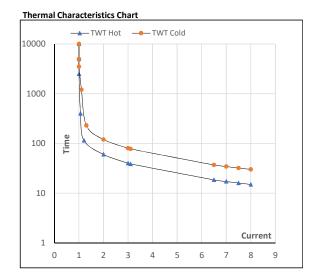




Model No. QCA0751A1111GAA001

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-m²]	[kg]
TEFC	400	Δ	50	75	100	125.8	2984	24.34	238.68	IE4	40	S1	1000	1.3925	787

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	60	40	30	25	20	15
TWT Cold	S	10000	120	80	65	50	45	30
Current	pu	1	2	3	4	5	5.5	8



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

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