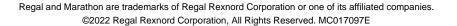
PRODUCT INFORMATION PACKET



Model No: QCA2503A1121GAA001 Catalog No: QCA2503A1121GAA001

TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 355L Frame, TEFC









Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	449.6 A	Speed	993 rpm
Service Factor	1	Phase	3
Efficiency	96.5 %	Power Factor	0.84
Duty	S 1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
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	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501831

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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. QCA2503A1121GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	ΙE		% EFF a	at load	b	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	250	335	449.6	993	2403.26	IE4	-	96.5	96.5	95.7	0.84	0.79	0.68	7.3	2.4	3.0

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355L	
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 resistan	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	6322 C3 / 6322 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	2169	kg
Gross weight - approx.	2214	kg
Motor inertia	15.0701	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from moto	or) 70	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 300mm ² /4 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

* Voltage, Frequency and combined variation are as per IEC60034-1

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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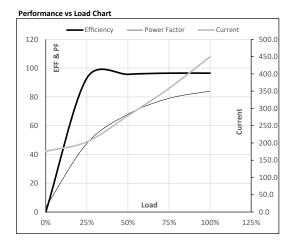




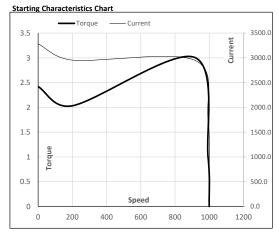
Model No. QCA2503A1121GAA001

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	400	Δ	50	250	335	449.6	993	245.06	2403.26	IE4	40	S1	1000	15.0701	2169

Motor Load D	Motor Load Data												
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	Α	175.9	203.2	278.8	358.1	449.6							
Torque	Nm	0.0	597.5	1197.1	1799.0	2403.3							
Speed	r/min	1000	998	996	995	993							
Efficiency	%	0.0	93.1	95.7	96.5	96.5							
Power Factor	%	3.5	47.7	68.0	79.0	84.0							



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 200 914 993 1000 Speed r/min А 175.9 Current 3282.2 2954.0 1768.4 449.6 Torque pu



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

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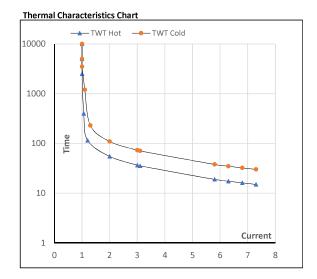




Model No. QCA2503A1121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	400	Δ	50	250	335	449.6	993	245.06	2403.26	IE4	40	S1	1000	15.0701	2169

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR						
TWT Hot	s	10000	55	37	30	25	20	15						
TWT Cold	s	10000	110	73	60	45	40	30						
Current	pu	1	2	3	4	5	5.5	7.3						



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

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