PRODUCT INFORMATION PACKET



Model No: QCA3552A1121GAA001 Catalog No: QCA3552A1121GAA001

TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355L Frame, TEFC



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Nameplate Specifications

475 Hp	Output KW	355.0 kW
50 Hz	Voltage	400 V
596.9 A	Speed	1490 rpm
1	Phase	3
96.7 %	Power Factor	0.89
S1	Insulation Class	F
355L	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	40 °C
6322	Opp Drive End Bearing Size	6322
No	CSA	No
Yes	IP Code	55
1	Efficiency Class	IE4
	50 Hz 596.9 A 1 96.7 % S1 355L No Protection 6322 No	50 Hz Voltage 596.9 A Speed 1 Phase 96.7 % Power Factor S1 Insulation Class 355L Enclosure No Protection Ambient Temperature 6322 Opp Drive End Bearing Size No CSA Yes IP Code

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	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		
Outline Drawing	0235501831	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. QCA3552A1121GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF a	at load	d	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	355	475	596.9	1490	2270.06	IE4	-	96.7	96.7	96.6	0.89	0.88	0.83	6.6	2.0	2.5

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.	2054	kg
Gross weight - approx.	2099	kg
Motor inertia	11.5226	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mot	cor) 82	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 300mm²/4 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

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

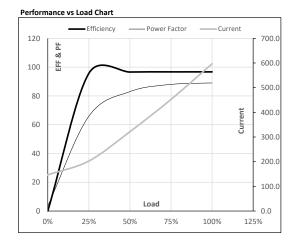




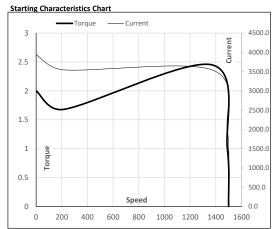
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		'	Р	Р	- 1	n	Т	T	ΙE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	355	475	596.9	1490	231.48	2270.06	IE4	40	S1	1000	11.5226	2054

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	146.5	202.8	321.7	452.5	596.9	
Torque	Nm	0.0	564.7	1131.1	1699.5	2270.1	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	95.7	96.6	96.7	96.7	
Power Factor	%	3.5	65.9	83.0	88.0	89.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 214 1371 1490 1500 Speed r/min А Current 3939.3 3545.4 1984.6 596.9 146.5 Torque pu



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

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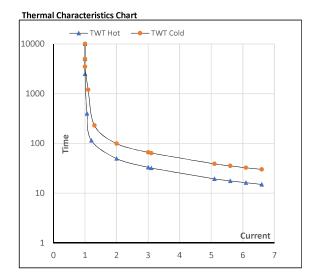




Model No. QCA3552A1121GAA001

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	355	475	596.9	1490	231.48	2270.06	IE4	40	S1	1000	11.5226	2054

Motor Speed	d Torq	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR							
TWT Hot	s	10000	50	33	28	20	18	15							
TWT Cold	s	10000	99	66	55	39	36	30							
Current	pu	1	2	3	4	5	5.5	6.6							



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

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