PRODUCT INFORMATION PACKET



Model No: QCA3552AF113GAA001 Catalog No: QCA3552AF113GAA001

TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 355L Frame, TEFC



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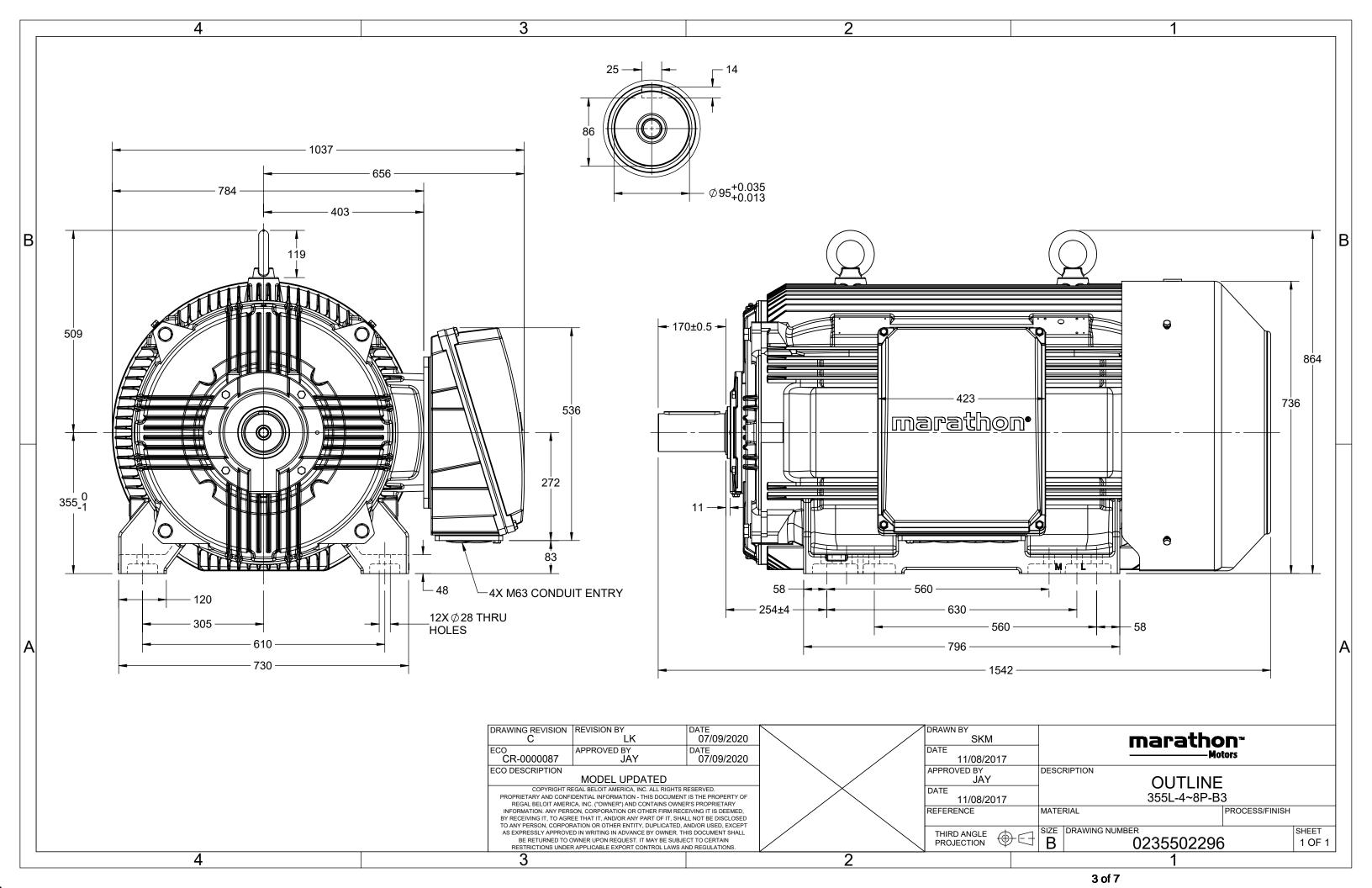
Nameplate Specifications

Output HP	475 Hp	Output KW	355.0 kW
Frequency	50 Hz	Voltage	380 V
Current	628.3 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96.7 %	Power Factor	0.89
Duty	S1	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	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
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	R Side		
Connection Drawing	8442000085	Outline Drawing	0235502296

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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

GEOM	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. QCA3552AF113GAA001

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	355	475	626.7	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 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	6322 C3 / 6322 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.	2065	kg
Gross weight - approx.	2110	kg
Motor inertia	11.5226	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 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	RHS	
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 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

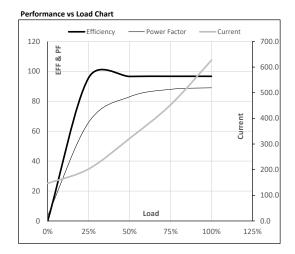




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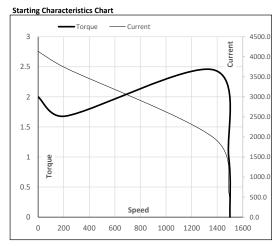
Enc	losure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
Т	EFC	380	Δ	50	355	475	626.7	1490	231.48	2270.06	IE4	40	S1	1000	11.5226	2065

Motor Load Data 5/4FL 1/2FL 3/4FL FL Load Point NL 1/4FL Current 146.5 202.8 321.7 452.5 626.7 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 65.9 83.0 88.0 Power Factor 3.5 89.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1371	1490	1500	
Current	Α	4136.3	3722.7	1984.6	626.7	146.5	
Torque	pu	2.0	1.7	2.5	1	0	



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

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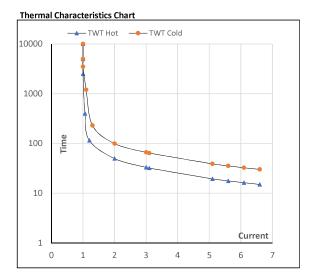




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	355	475	626.7	1490	231.48	2270.06	IE4	40	S1	1000	11.5226	2065

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l₃	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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