PRODUCT INFORMATION PACKET



Model No: TCA0552A1113GAC010
Catalog No: TCA0552A1113GAC010
TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 250M Frame, TEFC



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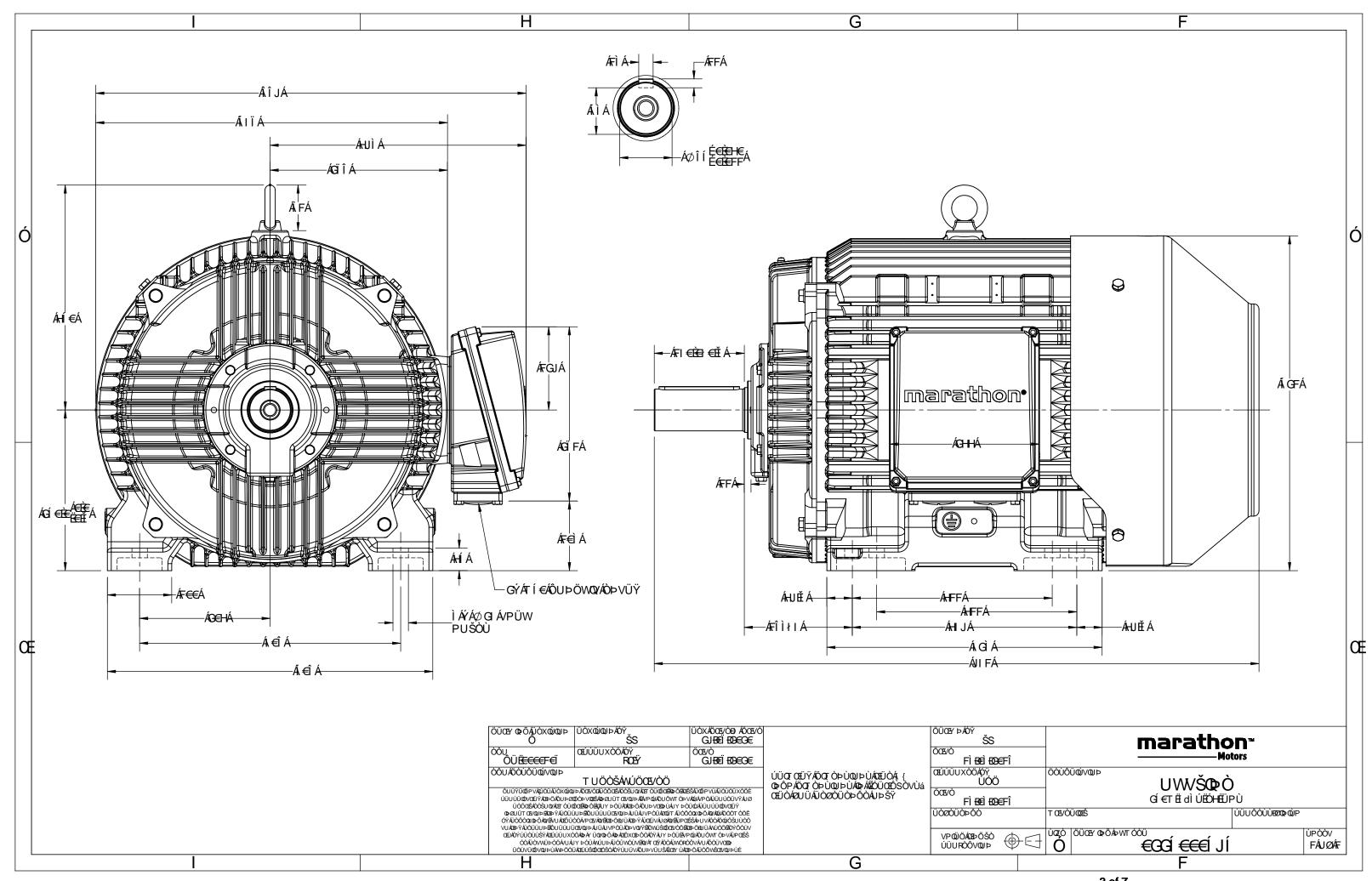
Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	400 V
Speed	1487 r/min	Service Factor	1
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.6 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	97.6 A	Power Factor	0.86
Duty	S1	Insulation Class	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	941 mm	Frame Length	460 mm	
Shaft Diameter	65 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	R Side			
Outline Drawing	0225000595	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. TCA0552A1113GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	PF	at lo	oad	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	55	75	97.6	1487	359.08	IE3	-	94.6	94.6	94	0.86	0.81	0.71	7.2	2.2	3.4

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	250M	
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	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.	535	kg
Gross weight - approx.	569	kg
Motor inertia	1.3974	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 68	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 95mm ² /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

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

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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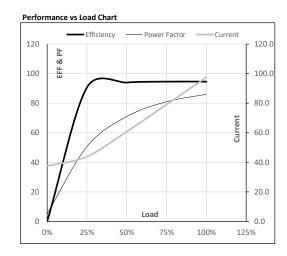




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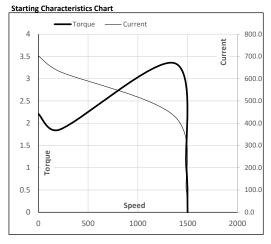
						n	ı	ı	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	55	75.0	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	535

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	37.5	43.9	60.8	79.1	97.6	
Torque	Nm	0.0	89.2	178.8	268.7	359.1	
Speed	r/min	1500	1497	1494	1491	1487	
Efficiency	%	0.0	90.7	94.0	94.6	94.6	
Power Factor	%	5.1	50.7	71.0	81.0	86.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1368	1487	1500	
Current	Α	702.6	632.3	431.6	97.6	37.5	
Torque	pu	2.2	1.9	3.4	1	0	



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

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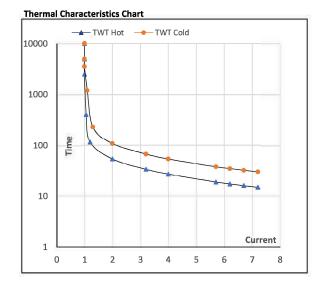




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	55	75.0	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	535

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	54	37	27	24	20	15
TWT Cold	s	10000	108	72	54	50	41	30
Current	pu	1	2	3	4	5	5.5	7.2



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

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