PRODUCT INFORMATION PACKET



Model No: TCA0302A1111GAC010 Catalog No: TCA0302A1111GAC010

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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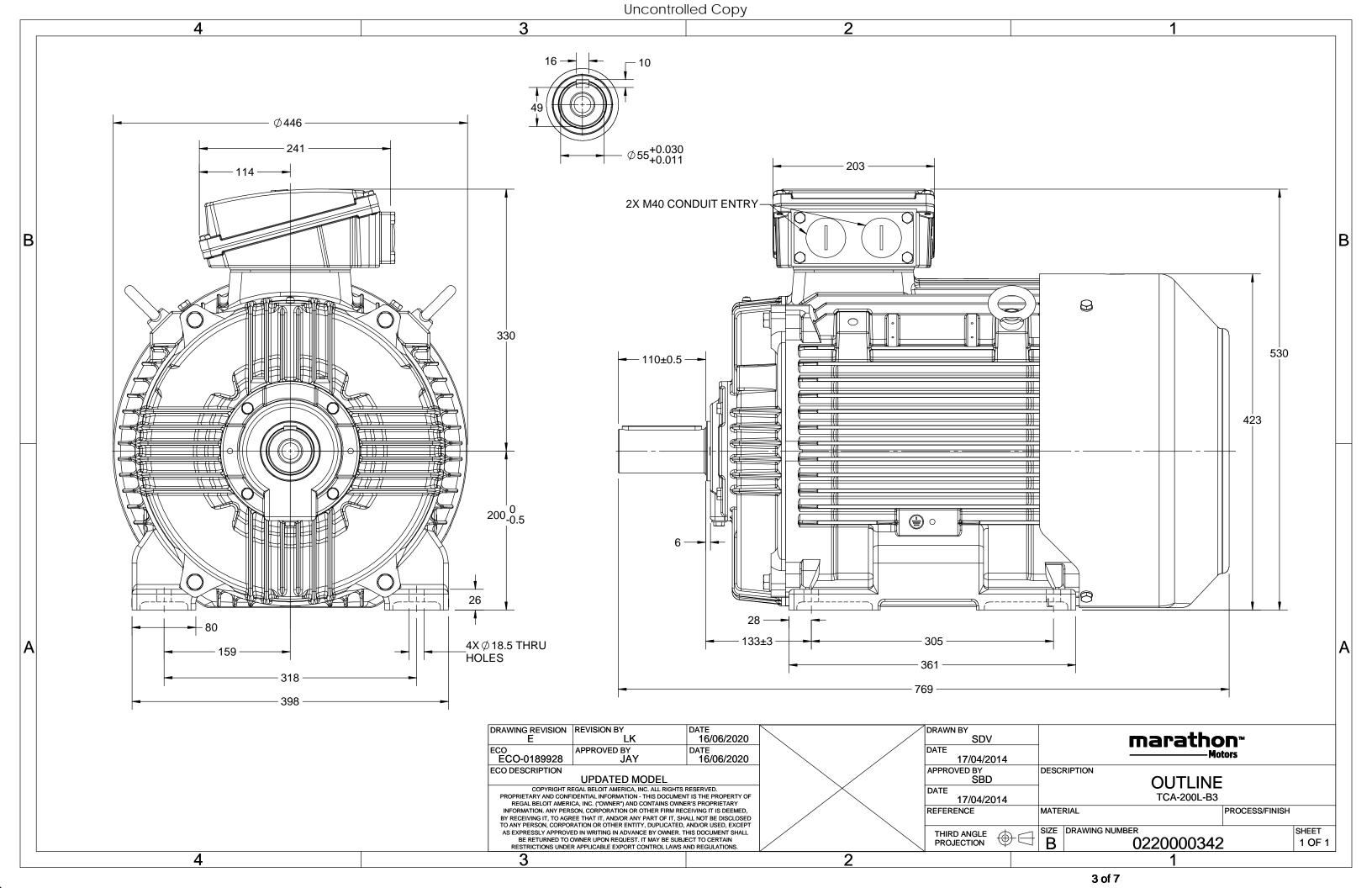
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	54.4 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	0.85
Duty	S 1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	No
CE	Vaa	IP Code	55
<u> </u>	Yes	II Code	

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000342

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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. TCA0302A1111GAC010

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	9	6 EFF a	t load	t	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	30	40	54.4	1479	192.65	IE3	-	93.6	93.6	93.6	0.85	0.82	0.72	6.6	2.2	2.9

TCA	
TEFC	
Cast Iron	
200L	
S1	
± 10%	
± 5%	
10%	
N	
1.0	
F	
-20 to +40	°C
80 [Class B]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
6312 C3 / 6212 C3	
Regreasable	
RON SRI-2 or Equivalen	t
	Cast Iron 200L 51 ± 10% ± 5% 10% N 1.0 F -20 to +40 80 [Class B] 1000 NA NA NA NA NA Aluminum Die cast Anti-friction ball 6312 C3 / 6212 C3 Regreasable

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	271	kg
Gross weight - approx.	301	kg
Motor inertia	0.4488	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 65	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 50mm ² /2 x M40 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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combine variation are as per IEC60034-1

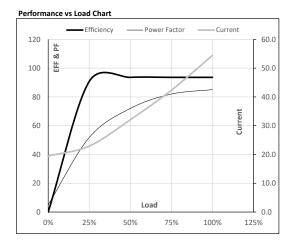




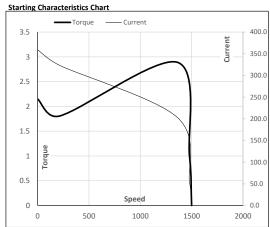
Model No. TCA0302A1111GAC010

Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	T	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	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	271

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	19.5	22.9	32.1	42.3	54.4	
Torque	Nm	0.0	47.6	95.6	143.9	192.6	
Speed	r/min	1500	1495	1490	1485	1479	
Efficiency	%	0.0	90.8	93.6	93.6	93.6	
Power Factor	%	5.0	51.8	72.0	82.0	85.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 214 1361 1479 1500 Speed r/min Current Α 359.2 323.3 203.2 54.4 19.5 Torque pu



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

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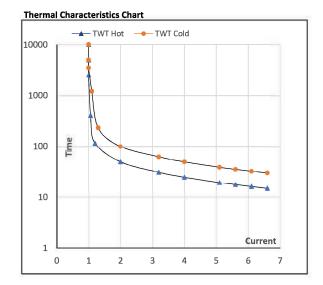




Model No. TCA0302A1111GAC010

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-m²]	[kg]
TEFC	400	Δ	50	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	271

Motor Spee	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	l ₅	LR
TWT Hot	s	10000	50	42	25	21	19	15
TWT Cold	s	10000	99	65	50	41	37	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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