# PRODUCT INFORMATION PACKET



Model No: TCA18P3A1111GAC010 Catalog No: TCA18P3A1111GAC010

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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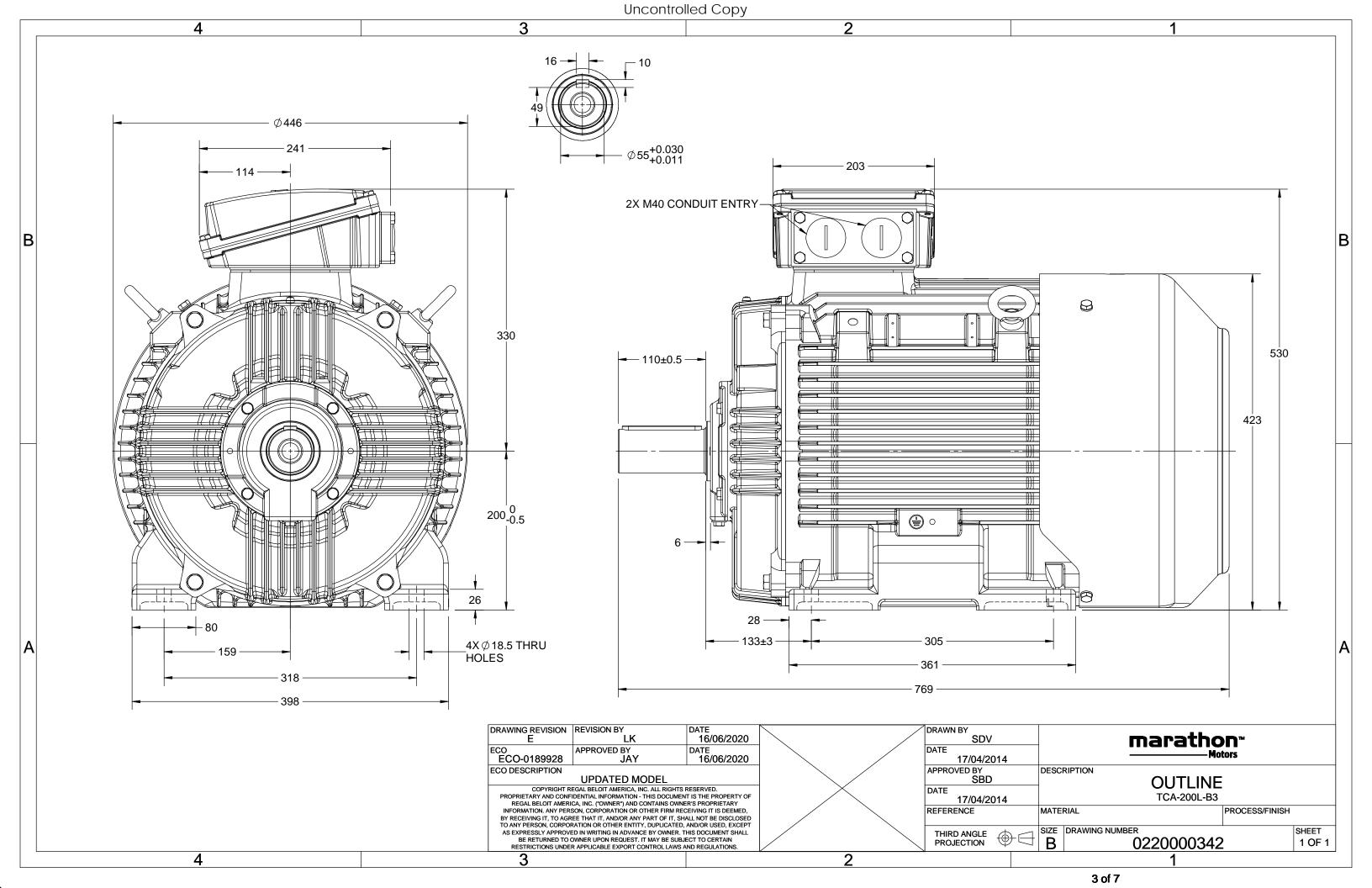
## Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	36.4 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.8
Duty	<b>S1</b>	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Booring Size			
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL UL	6312 No	Opp Drive End Bearing Size CSA	6212 No
<u> </u>			

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	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. TCA18P3A1111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	PI	at lo	oad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	$T_K/T_N$
(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	18.5	25	36.4	984	181.04	IE3	-	91.7	91.7	91.6	0.8	0.74	0.62	5.8	2.0	2.4

TCA	
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	
VRON SRI-2 or Equivalent	
	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.	255	kg
Gross weight - approx.	286	kg
Motor inertia	0.5179	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from mo	tor) 62	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	<b>Bi-directional</b>	
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 <sup>2</sup> /2 x M40 x 1.5	
Auxiliary terminal box	NA	

I<sub>A</sub>/I<sub>N</sub> - 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

 $\ensuremath{^{*}}\xspace$  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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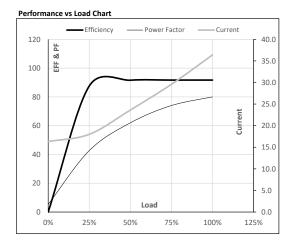




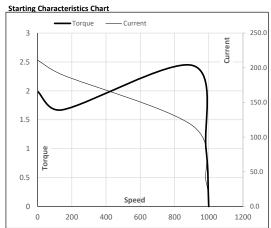
## Model No. TCA18P3A1111GAC010

Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	255

#### Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 16.3 18.0 23.6 29.6 36.4 Α 135.2 181.0 Torque Nm 0.0 44.7 89.7 1000 996 Speed r/min 992 988 984 Efficiency % 0.0 87.6 91.6 91.7 91.7 Power Factor 5.3 42.7 62.0 74.0 80.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 143 905 984 1000 Speed r/min Current Α 211.1 190.0 116.5 36.4 16.3 Torque pu



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

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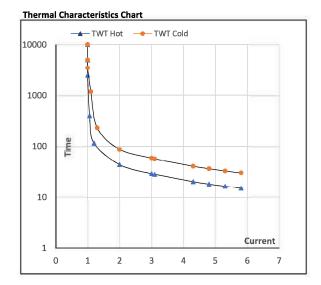




#### Model No. TCA18P3A1111GAC010

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-m²]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	255

#### Motor Speed Torque Data Load FL LR s 10000 16 15 TWT Hot 29 22 TWT Cold s 10000 87 58 43 38 31 30 Current 4 5 5.5 5.8 pu



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

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