PRODUCT INFORMATION PACKET



Model No: TCN18P3A1121GAC010 Catalog No: TCN18P3A1121GAC010

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



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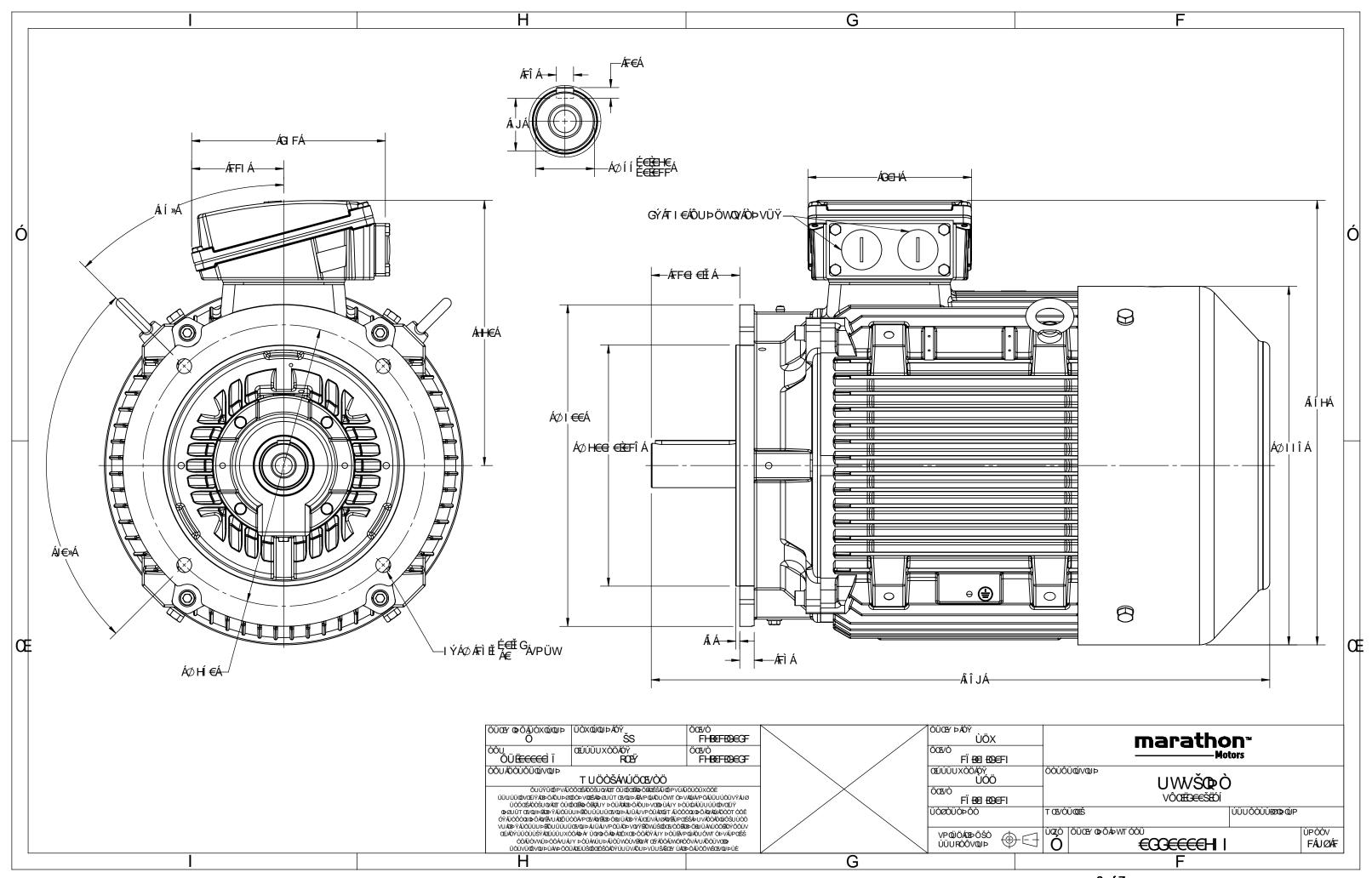
Nameplate Specifications

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	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	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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	0220000344

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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	ENTRIC TOLE	RANCE
	>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. TCN18P3A1121GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE		% EFF a	at load	I	PI	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	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

Motor type	TCN	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	200L	
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	Ex nA	
Zone classification	Zone 2	
Gas group	IIC	
Temperature class	T3	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6312 C3 / 6212 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.	266	kg
Gross weight - approx.	296	kg
Motor inertia	0.5179	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mote	or) 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	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

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

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	-	-	GEMS 2019	-	IEC:60034-30-1

RFG4/

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

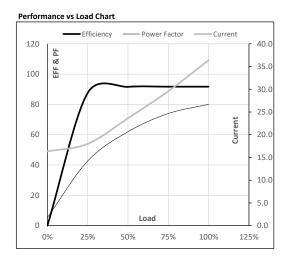




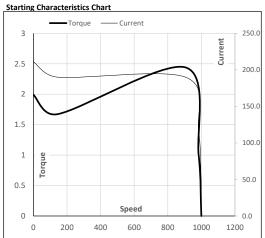
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	0 4	. / Y I	Р	Р	ı	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
(V	(V) C	onn [Hz	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	100	Δ 50	18.5	25	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

Motor Load Data Load Point 1/4FL 1/2FL 3/4FL FL 5/4FL Current 16.3 18.0 23.6 29.6 36.4 Torque Nm 0.0 44.7 89.7 135.2 181.0 Speed r/min 1000 996 992 988 984 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	d Torque Dat	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	143	905	984	1000
Current	Α	211.1	190.0	116.5	36.4	16.3
Torque	nu	2.0	1.7	2.4	1	0



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

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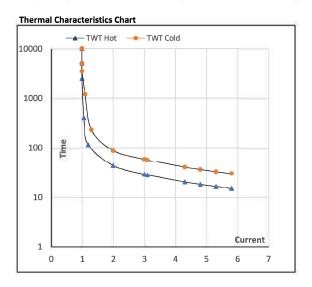




Model No. TCN18P3A1121GAC010

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	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	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

Motor Spee	d Torg	ue Data						
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	44	29	22	17	16	15
TWT Cold	s	10000	87	58	43	38	31	30
Current	pu	1	2	3	4	5	5.5	5.8



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

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