PRODUCT INFORMATION PACKET



Model No: TCN0371A1141GAC010 Catalog No: TCN0371A1141GAC010

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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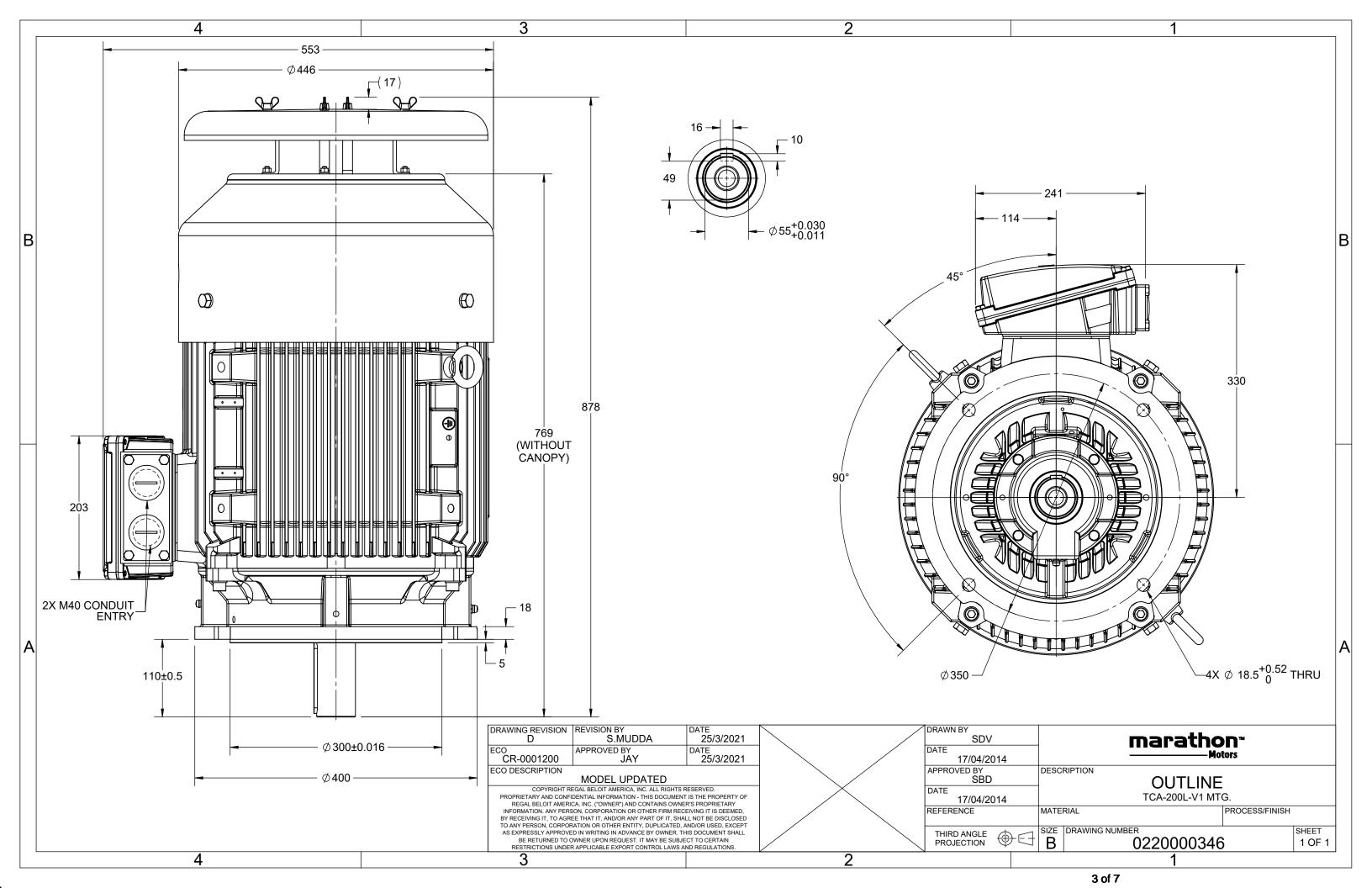
Nameplate Specifications

Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	400 V
Speed	2974 r/min	Service Factor	1
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.7 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	66.3 A	Power Factor	0.86
Duty	S1	Insulation Class	F
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	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	876 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000346	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. TCN0371A1141GAC010

U	Δ/Υ	f	Р	Р	1	n	Т	IE		% EFF	at loa	d	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	37	50	66.3	2974	119.73	IE3	-	93.7	93.7	92.5	0.86	0.82	0.72	7.8	2.4	3.8

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 resistance	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	Т3	
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 V1	
Cooling method	IC 411	
Motor weight - approx.	309	kg
Gross weight - approx.	339	kg
Motor inertia	0.2934	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from moto	r) 73	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 50mm²/2 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

 $T_{\rm K}/T_{\rm N}$ - 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

st Voltage, Frequency and combined variation are as per IEC60034-1

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

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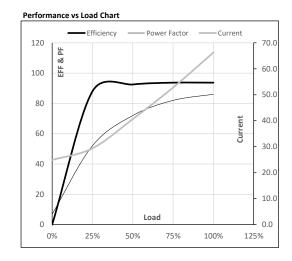




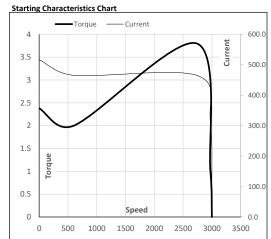
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(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]	Enclosure	U	Δ / Y	f	Р	Р	1	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 A 50 27 50 662 2074 12.21 110.72 152 40 51 1000 0.2024		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
12.0 400 A 30 37 30 00.3 2374 12.21 113.73 1L3 40 31 1000 0.2334	TEFC	400	Δ	50	37	50	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	309

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	24.9	29.4	40.6	52.8	66.3	
Torque	Nm	0.0	29.7	59.6	89.6	119.7	
Speed	r/min	3000	2993	2987	2981	2974	
Efficiency	%	0.0	88.0	92.5	93.7	93.7	
Power Factor	%	6.9	52.1	72.0	82.0	86.0	



Motor Spee	d Torque Dat	a				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2736	2974	3000
Current	Α	516.9	465.2	312.3	66.3	24.9
Torque	nu	2.4	2.0	3.8	1	0



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

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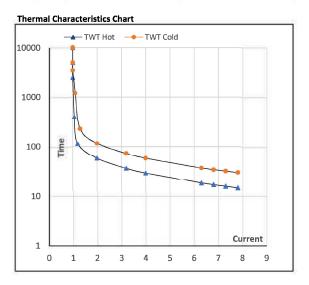




Model No. TCN0371A1141GAC010

Enclosure	U	Δ/Υ	f	Р	Р	1	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	400	Δ	50	37	50.0	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	309

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	59	40	30	25	22	15
TWT Cold	s	10000	117	80	59	45	40	30
Current	pu	1	2	3	4	5	5.5	7.8



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

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