PRODUCT INFORMATION PACKET

Model No: TCN2501A1131GAC010 Catalog No: TCN2501A1131GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 355M Frame, TEFC



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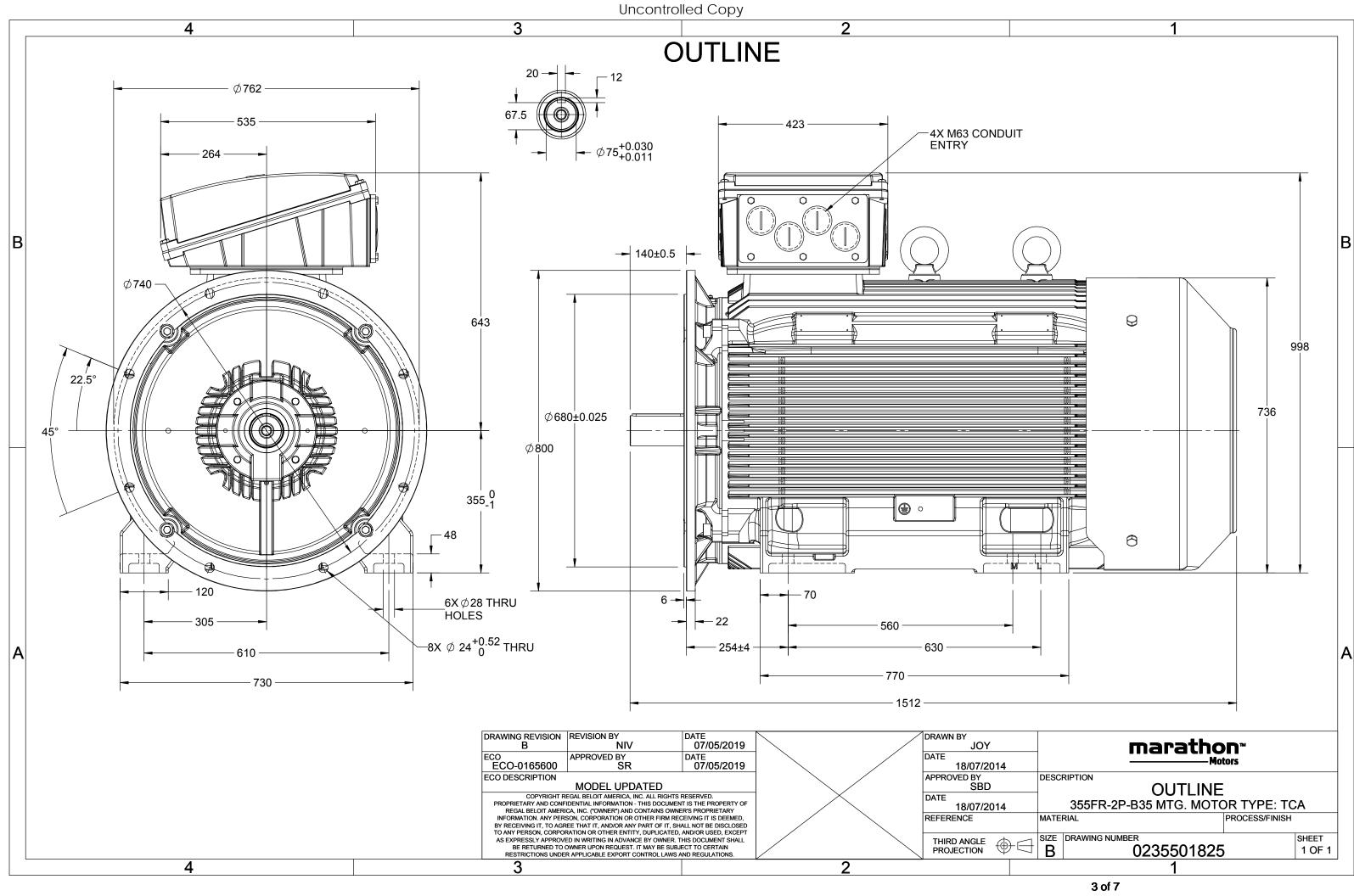
Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	418.5 A	Speed	2983 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6317	Ambient Temperature Opp Drive End Bearing Size	40 °C 6317

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1512 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501825

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TerraMAX[®]

Model No. TCN2501A1131GAC010

(V) Conn [Hz] [kW] [hp] [A] [RPM] [Nm] Class 5/4FL FL 3/4FL 1/2FL 1/2FL FL 3/4FL 1/2FL TL 3/4FL 1/2FL 1/2FL 1/2FL 1/2FL	U	Δ / Y	f	Р	Р	1	n	т	IE		% FFF :	at loa	d	PI	at_lo	had	I _A /I _N	т./т.	T _K /T _N
Image: Application of the state of	_					-		-											[pu]
Motor typeTCNDegree of protectionIP 55EnclosureTEFCMounting typeIM B35Frame MaterialCast IronCooling methodIC 411Frame MaterialCast IronCooling methodIC 411Frame Size355MMotor weight - approx.1748DutyS1Gross weight - approx.1748OutyS1Motor inertia4.0729Yoltage variation *± 10%Motor inertia4.0729Frequency variation *± 5%Load inertiaCustomer to ProvideCombined variation *10%Vibration level2.8Service factor1.0No. of starts hot/cold/Equally spread2/3/4Insulation classFStarting methodDOLAmbient temperature-20 to +40°CType of couplingDirectTemperature rise (by resistance)80 [Class B]KI.R withstand time (hot/cold)15/30AccessoriesT3AccessoriesAccessoriesAccessoriesTemperature classT3Accessory - 1PTC 150°CAccessory - 2Accessory - 2-Bearing typeAnti-friction ballAccessory - 3Def Nob Ebearing6317 C3 / 6317 C3Maximun cable size/conduit size1R x 3C x 300mm³/4 x M63 x 1.5										-		,							3.3
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	DE / N	DE beari	ng		63	17 C3/6	317 C3			Ter	minal b	ox positi	ion				TOP		
	Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable siz	e/condui	t size	1R	x 3C x 3	00mm²/4 x N	163 x 1.5	
Type of grease CHEVRON SRI-2 or Equivalent Auxiliary terminal box NA	Туре о	of grease			CHEVRO	ON SRI-2 d	or Equivale	ent		Aux	iliary te	erminal b	oox				NA		

 $I_{\text{A}}/I_{\text{N}}$ - 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

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

Technical da	ta are subject to	o change. There may be slight varia	tions between calculated	d values in this datashee	t and the motor namep	late figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC

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



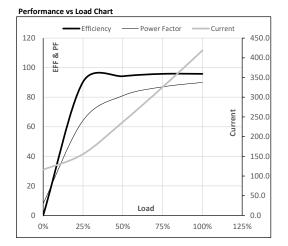
marathon®



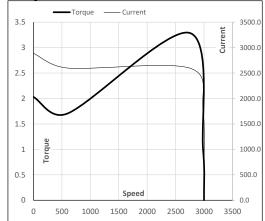
Model No. TCN2501A1131GAC010

Enclosure	U	Δ / Y	f	Р	Р	I	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	250	335	418.5	2983	81.55	799.72	IE3	40	S1	1000	4.0729	1748
1210	400	Δ	50	230	333	410.5	2903	81.55	155.12	ILS	40	31	1000	4.0725	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	116.0	155.5	237.0	325.4	418.5	
Torque	Nm	0.0	199.1	398.7	598.9	799.7	
Speed	r/min	3000	2996	2992	2987	2983	
Efficiency	%	0.0	90.3	94.2	95.8	95.8	
Power Factor	%	8.0	64.2	81.0	87.0	90.0	



Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

2.0

P-Up

600

2887.8 2599.0 1775.4

1.7

BD

2744

3.3

Rated

2983

418.5

1

NL

3000

116.0

0

Load Point

Speed

Current Torque

REGAL



TerraMAX[®]

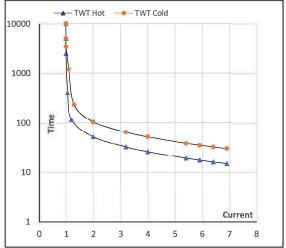
Model No. TCN2501A1131GAC010

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	250	335.0	418.5	2983	81.55	799.72	IE3	40	S1	1000	4.0729	1748

Motor Speed Torque Data

Load		FL	I ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	52	35	26	23	18	15
TWT Cold	s	10000	104	80	52	40	36	30
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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