## **PRODUCT INFORMATION PACKET**

# marathon°

Model No: TCN0553A1131GAC010 Catalog No: TCN0553A1131GAC010 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 280M Frame, TEFC



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## marathon

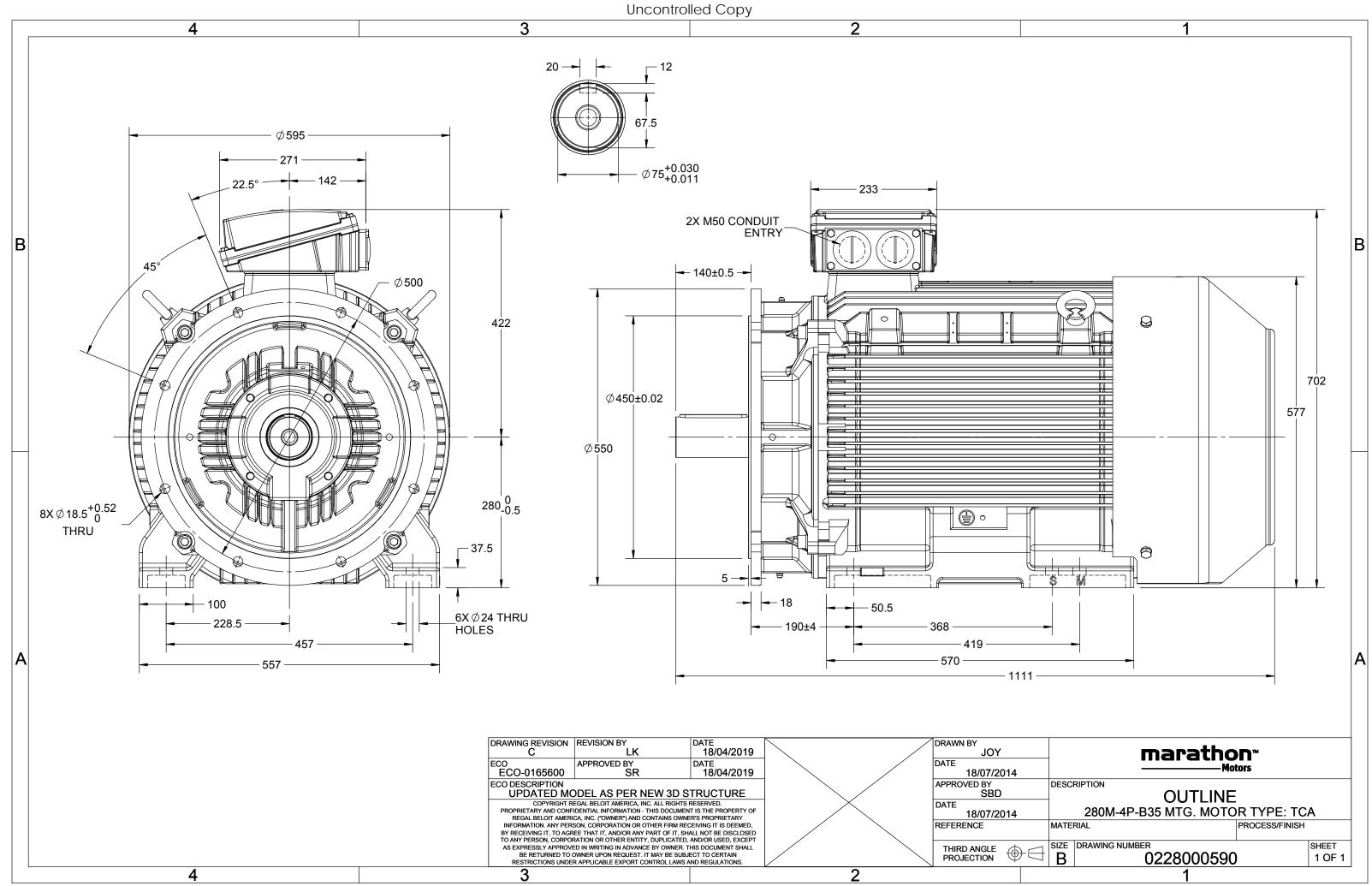
### Nameplate Specifications

Phase	3	Output HP	75 Нр
Output KW	55.0 kW	Voltage	400 V
Speed	989 r/min	Service Factor	1
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	101.6 A	Power Factor	0.83
Duty	S1	Insulation Class	F
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
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	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	Сз
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1111 mm	Frame Length	600 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0228000590

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## **TerraMAX**<sup>®</sup>

### Model No. TCN0553A1131GAC010

(V)     Conn     [Hz]     [kW]     [hp]     [A]     [RPM]     [Nm]     Class     5/4FL     FL     3/4FL     1/2FL     FL     3/4FL     1/2FL     [pu]     <	U	$\Delta / Y$	f	Р	Р	1	n	т	IE		% EFF	at loa	d	PF	at_lo	bad	I <sub>A</sub> /I <sub>N</sub>		T <sub>K</sub> /T <sub>N</sub>
400     A     50     55     75     101.6     989     540.25     IE3     -     94.1     94.1     93.7     0.83     0.79     0.68     6.2     1.9     2       Motor type     TCN     Enclosure     TEFC     Mounting type     IM B35       Frame Material     Cast Iron     Cooling method     IC 411     Frameside     6.38     0.79     0.68     6.2     1.9     2       Voltage variation *     280M     Motor weight - approx.     6.38     6.38     0.79     0.68     6.2     1.9     2       Coluing method     IC 411     Frameside     Cast Iron     Frameside     6.38     0.73     0.83     0.79     0.68     6.2     1.9     2       Coluing method     Cast Iron     For the stance     Motor method     IC 411     Frameside     6.38     0.73     0.83     0.79     0.68     6.2     1.9     2     0.3       Outy     S1     Cast Iron     For the diverside     0.00     10.0     0.0     <	-		[Hz]	[kW]		[A]		[Nm]		5/4FL									[pu]
Notor typeTCNDegree of protectionIP 55EnclosureTEFCMounting typeIM B35Frame MaterialCast IronCooling methodIC 411Frame MaterialCast IronCooling methodIC 411Frame Size280MMotor weight - approx.638DutyS1Gross weight - approx.673Voltage variation *± 10%Motor inertia2.6734kgFrequency variation *± 0%Vibration level2.2mDesignNNo. of starts hot/cold/Equally spread2/3/4forInsulation classFStarting methodDOL15/30Ambient temperature-20 to +40°CType of couplingDirectAubient temperature1000meterDirection of TotationBi-directionalZone classificationZone 2Paint shadeRAL 5014AccessoriesZone classificationEx nAAccessory - 1PTC 150°CAccessory - 2Gas groupIICAccessory - 3-EmperatureDe / NDe bearingG317 C3 / G317 C3Ga17 C3 / G317	<u> </u>						. ,			-		,	,		,			-1 -	2.5
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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			Regreasa	able			Ma	ximum	cable siz	e/condui	t size	1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of grease CHEVRON SRI-2 or Equivalent Auxiliary terminal box NA	Type o	of grease			CHEVRO	ON SRI-2 d	or Equival	ent		Aux	kiliary te	erminal k	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 dat	a are subject t	o change. There may be slight varia	ations between calculated	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



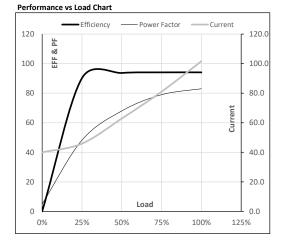
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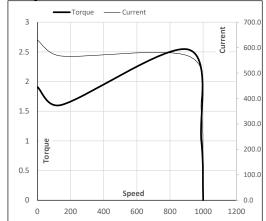
### Model No. TCN0553A1131GAC010

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	55	75	101.6	989	55.09	540.25	IE3	40	S1	1000	2.6734	638

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	40.0	45.9	62.9	81.0	101.6	
Torque	Nm	0.0	132.1	264.9	398.5	540.3	
Speed	r/min	1000	997	995	992	989	
Efficiency	%	0.0	90.2	93.7	94.1	94.1	
Power Factor	%	5.0	48.2	68.0	79.0	83.0	



### 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

630.2

1.9

P-Up

143

567.2

1.6

BD

910

346.9

2.5

Rated

989

101.6

1

NL

1000

40.0

0

Load Point

Speed

Current

Torque

REGAL



# **TerraMAX**<sup>®</sup>

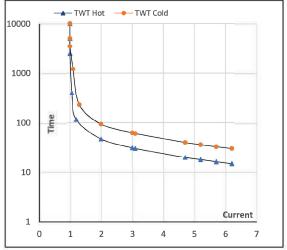
#### Model No. TCN0553A1131GAC010

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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	55	75.0	101.6	989	55.09	540.25	IE3	40	S1	1000	2.6734	638

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	47	31	23	18	17	15
TWT Cold	s	10000	93	60	44	37	34	30
Current	pu	1	2	3	4	5	5.5	6.2

### Thermal Characteristics Chart



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

Issued By Issued Date

REGAL