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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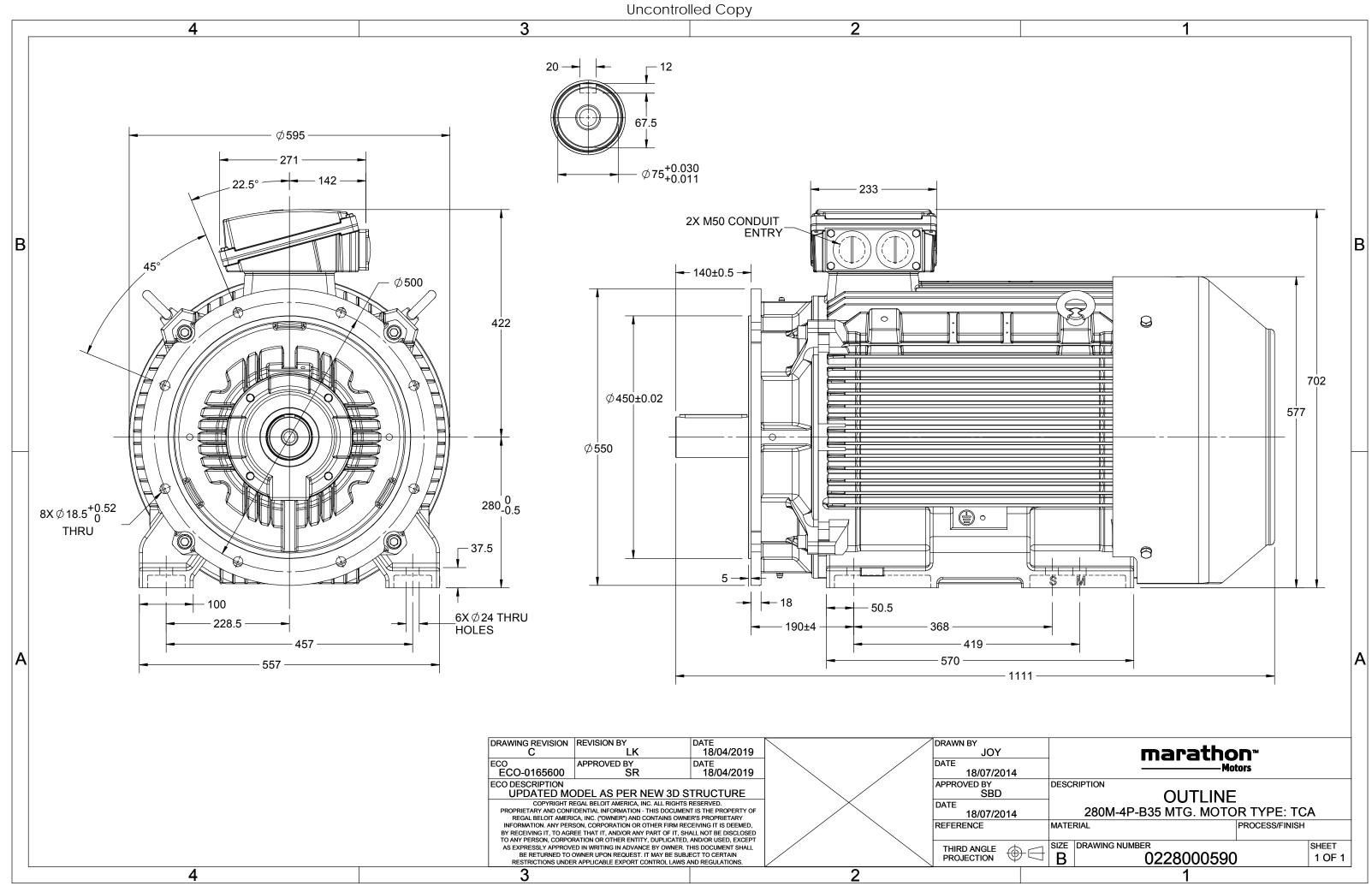
Nameplate Specifications

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[®]

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	Δ / Y	f	Р	Р	1	n	т	IE		% EFF	at loa	d	PF	at_lo	bad	I _A /I _N		T _K /T _N
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]
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	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



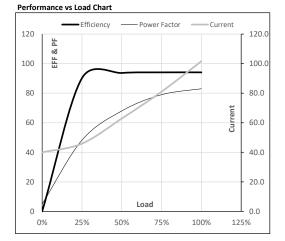
marathon[®]



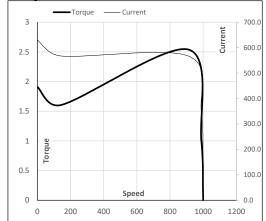
Model No. TCN0553A1131GAC010

Enclosure	U	Δ / 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 ²]	[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[®]

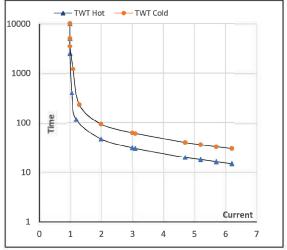
Model No. TCN0553A1131GAC010

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 ²]	[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 ₂	l ₃	I_4	I ₅	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