PRODUCT INFORMATION PACKET

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Model No: TCA0553A3111GACD01 Catalog No: TCA0553A3111GACD01 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 280M Frame



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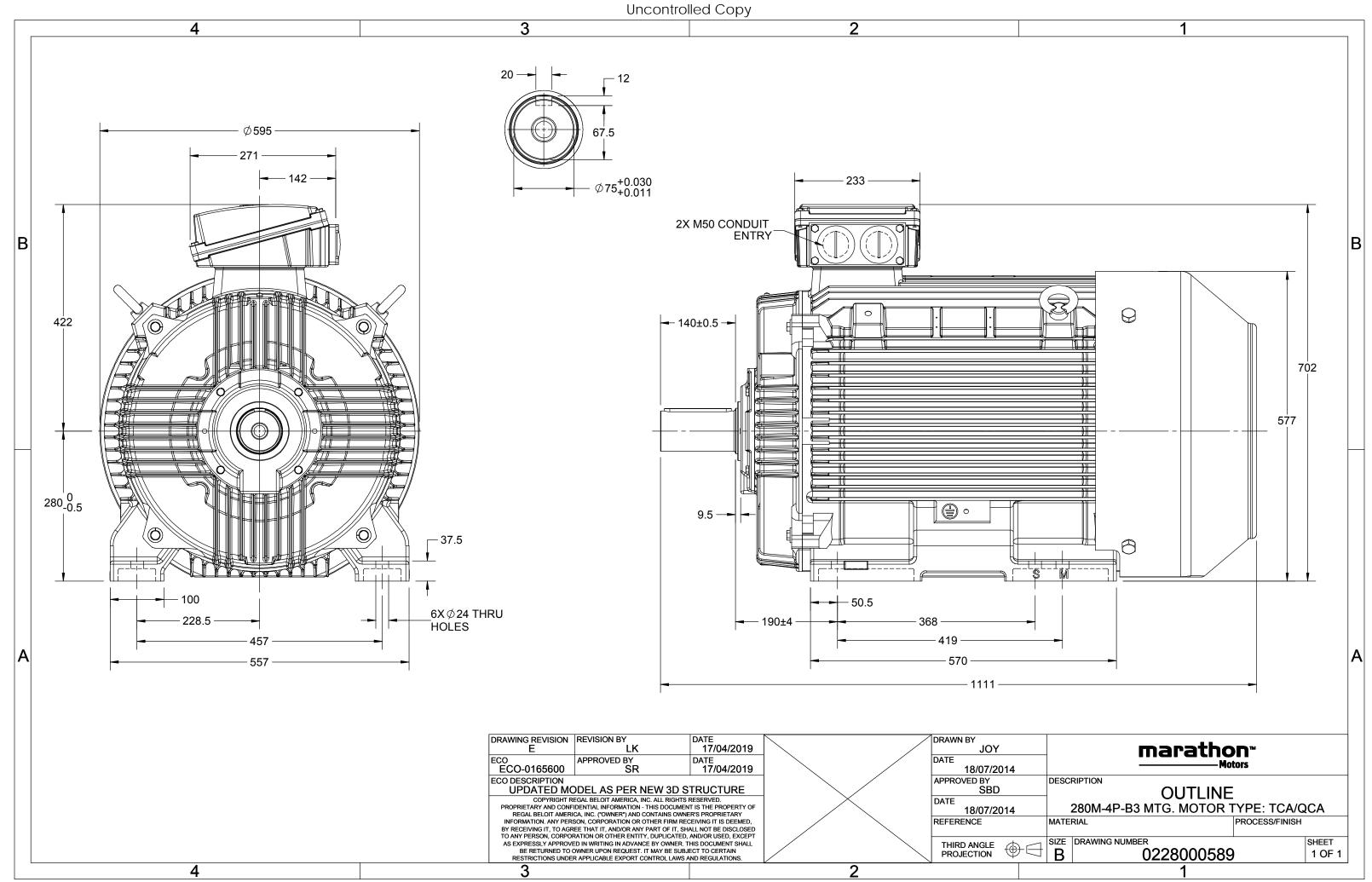
Nameplate Specifications

Phase	3	Output HP	75 Hp		
Output KW	55.0 kW	Voltage	415 V		
Speed	989 r/min	Service Factor	1		
Frame	280M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	94.1 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	98.0 A	Power Factor	0.83		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317		
UL	No	CSA	Νο		
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	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
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	0228000589

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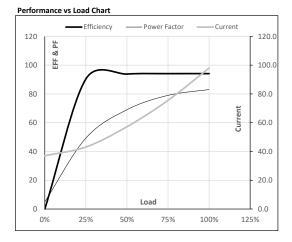


Model No. TCA0553A3111GACD01

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	55	75.0	98.0	989	55.10	540.36	IE3	50	S1	1000	2.6734	674.0

Motor Load Data

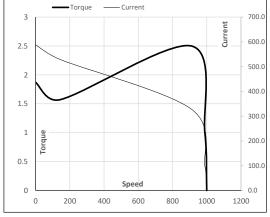
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	37.0	43.1	57.2	75.5	98.0	
Torque	Nm	0.0	132.1	265.0	398.6	540.4	
Speed	r/min	1000	997	995	992	989	
Efficiency	%	0.0	90.4	93.8	94.1	94.1	
Power Factor	%	5.0	49.3	69.0	79.0	83.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	910	989	1000	
Current	А	587.8	529.0	328.6	98.0	37.0	
Torque	pu	1.9	1.6	2.5	1	0	





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

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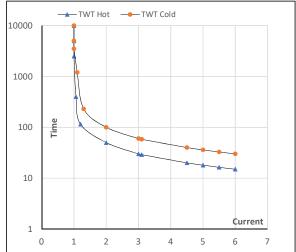
Model No. TCA0553A3111GACD01

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	415	Δ	50	55	75	98.0	989	55.06	540.36	IE3	50	S1	1000	2.6734	674

Motor Speed Torque Data

Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	30	25	18	16	15
TWT Cold	s	10000	100	60	55	36	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : TCA0553A3111GACD01

(Model No. may contain prefix and/or suffix characters)

Catalog No : TCA0553A3111GACD01

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer