## **PRODUCT INFORMATION PACKET**

# marathon°

Model No: TCA0454A3113GACD01 Catalog No: TCA0454A3113GACD01 TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 280M Frame



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Product Information Packet: Model No: TCA0454A3113GACD01, Catalog No:TCA0454A3113GACD01 TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 280M Frame

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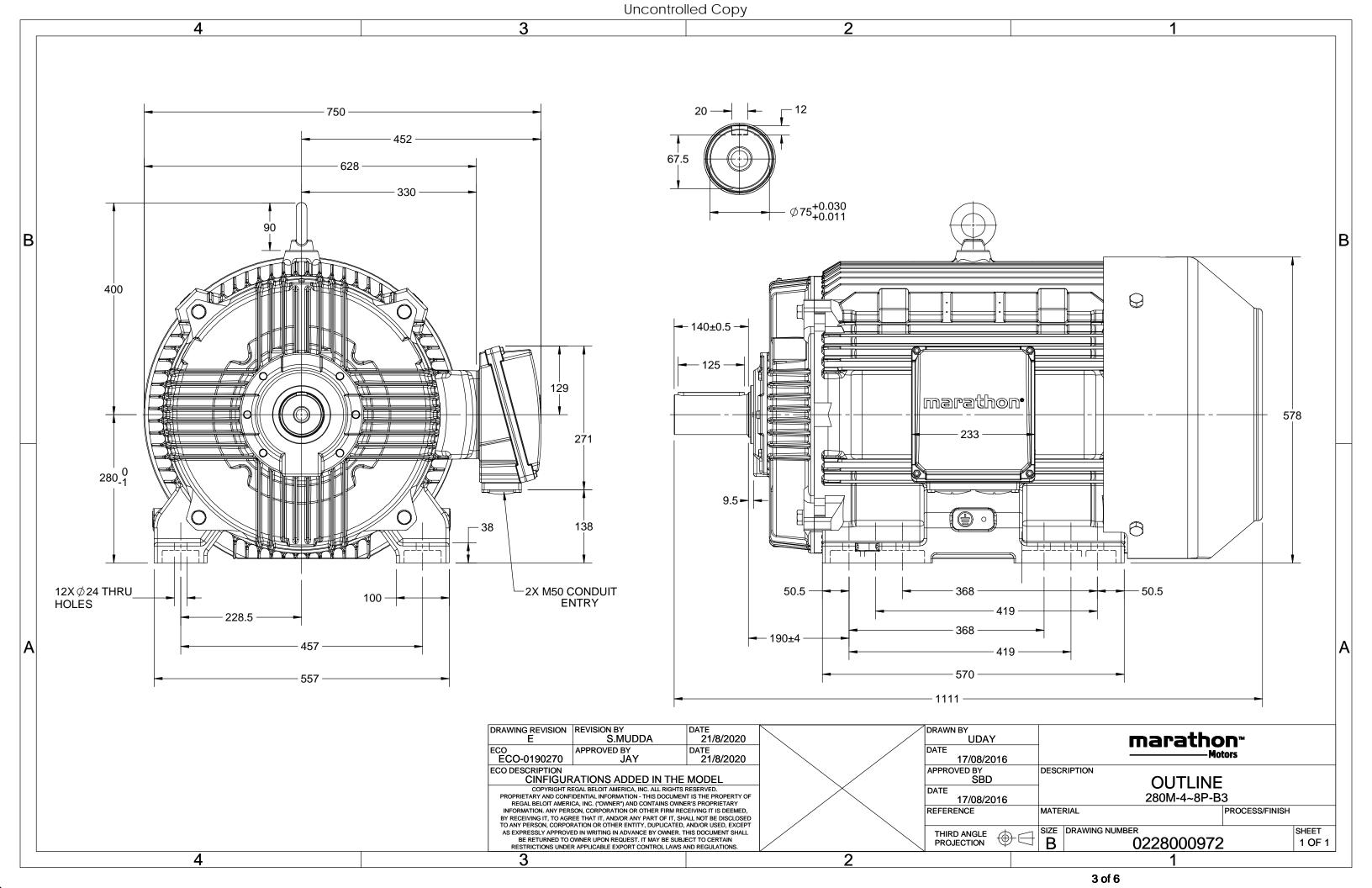
### Nameplate Specifications

Phase	3	Output HP	60 Hp
Output KW	45.0 kW	Voltage	415 V
Speed	742 r/min	Service Factor	1
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.2 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	87.1 A	Power Factor	0.78
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	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	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	R Side		
Connection Drawing	8442000085	Outline Drawing	0228000972

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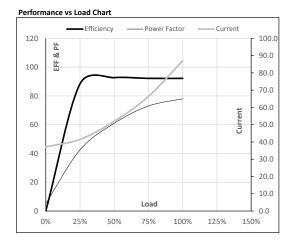


Model No. TCA0454A3113GACD01

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	45	60.0	87.1	742	58.76	576.25	IE3	50	S1	1000	3.5326	771

#### Motor Load Data

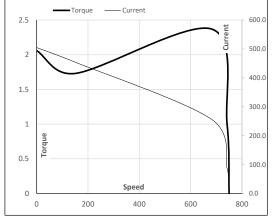
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	37.2	41.5	51.9	66.4	87.1	
Torque	Nm	0.0	142.9	286.5	430.9	576.3	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	88.4	92.7	92.2	92.2	
Power Factor	%	5.2	42.5	61.0	73.0	78.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	683	742	750	
Current	А	504.9	454.4	256.1	87.1	37.2	
Torque	pu	2.1	1.7	2.4	1	0	

Starting Characteristics Chart



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

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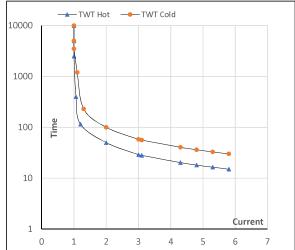
Model No. TCA0454A3113GACD01

Enclosure	U	$\Delta / Y$	f	Р	Р	T	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	415	Δ	50	45	60	87.1	742	58.72	576.25	IE3	50	S1	1000	3.5326	771

### Motor Speed Torque Data

Load	FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	10000	50	29	25	17	16	15
TWT Cold	10000	100	58	50	34	31	30
Current pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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