## **PRODUCT INFORMATION PACKET**

# marathon°

Model No: TCA0454A3133GACD01 Catalog No: TCA0454A3133GACD01 TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 280M Frame



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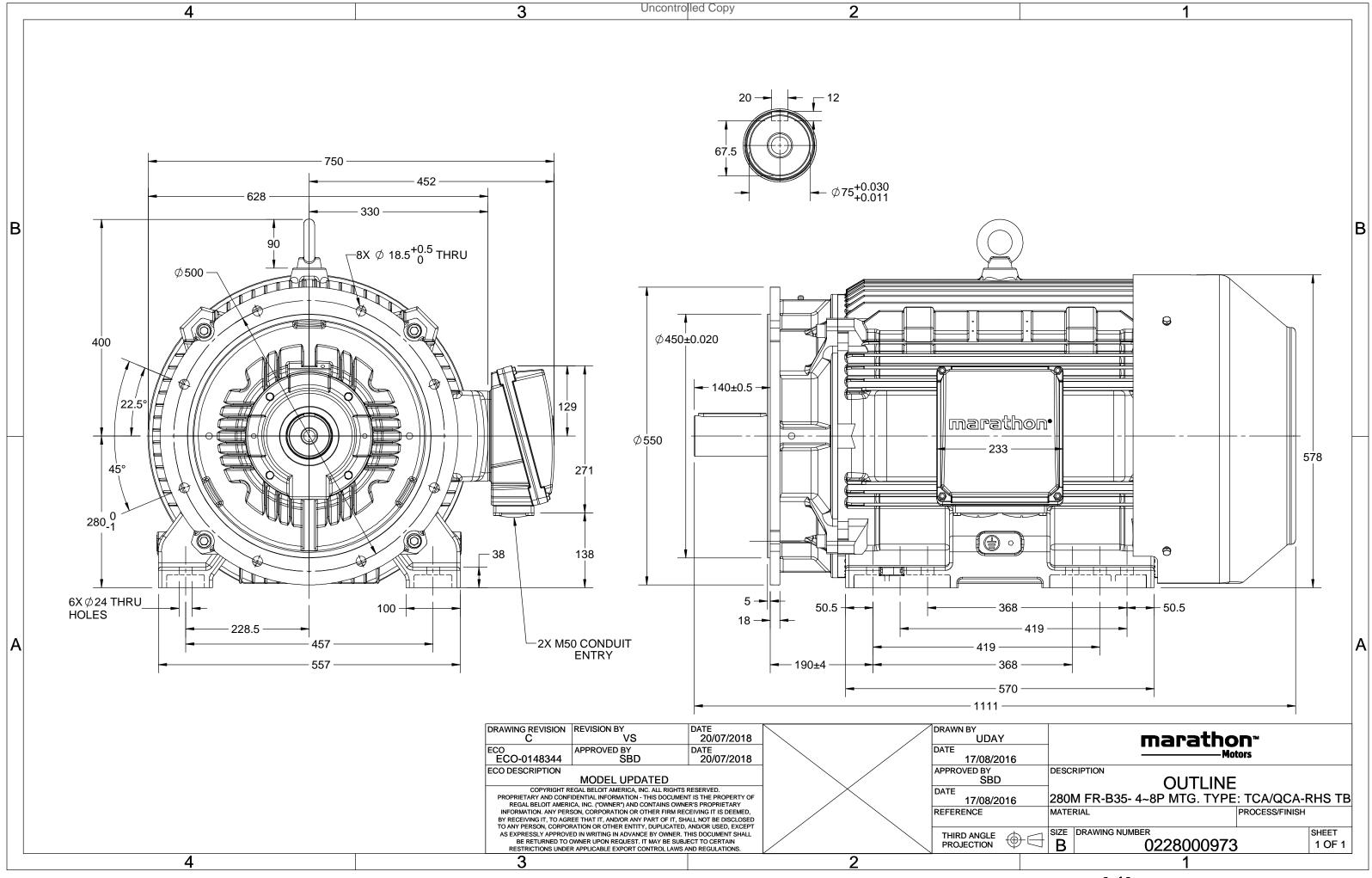
### Nameplate Specifications

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	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	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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		
Outline Drawing	0228000973	Connection Drawing	8442000085

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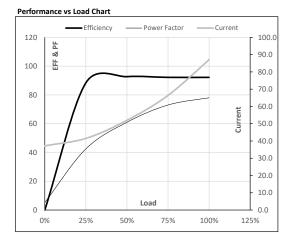


Model No. TCA0454A3133GACD01

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	792

#### Motor Load Data

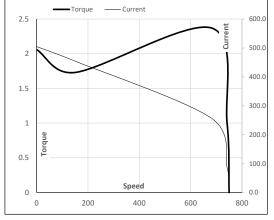
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	37.2	41.5	51.9	66.4	87.1	
Nm	0.0	142.9	286.5	430.9	576.3	
r/min	750	748	746	744	742	
%	0.0	88.4	92.7	92.2	92.2	
%	5.2	42.5	61.0	73.0	78.0	
	Nm r/min %	A 37.2   Nm 0.0   r/min 750   % 0.0	A 37.2 41.5   Nm 0.0 142.9   r/min 750 748   % 0.0 88.4	A 37.2 41.5 51.9   Nm 0.0 142.9 286.5   r/min 750 748 746   % 0.0 88.4 92.7	A 37.2 41.5 51.9 66.4   Nm 0.0 142.9 286.5 430.9   r/min 750 748 746 744   % 0.0 88.4 92.7 92.2	A 37.2 41.5 51.9 66.4 87.1   Nm 0.0 142.9 286.5 430.9 576.3   r/min 750 748 746 744 742   % 0.0 88.4 92.7 92.2 92.2



#### 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	
					87.1 1		37.2 0

Starting Characteristics Chart



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

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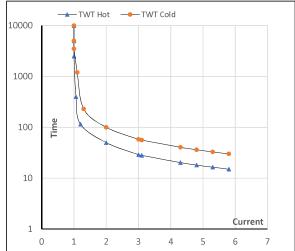
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Enclosure	U	$\Delta / Y$	f	Р	Р	T	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	45	60	87.1	742	58.72	576.25	IE3	50	S1	1000	3.5326	792

### Motor Speed Torque Data

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Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	50	29	25	17	16	15
TWT Cold	s	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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