PRODUCT INFORMATION PACKET

Model No: QCA18P2A1141GAA001 Catalog No: QCA18P2A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC



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marathon[®] Motors



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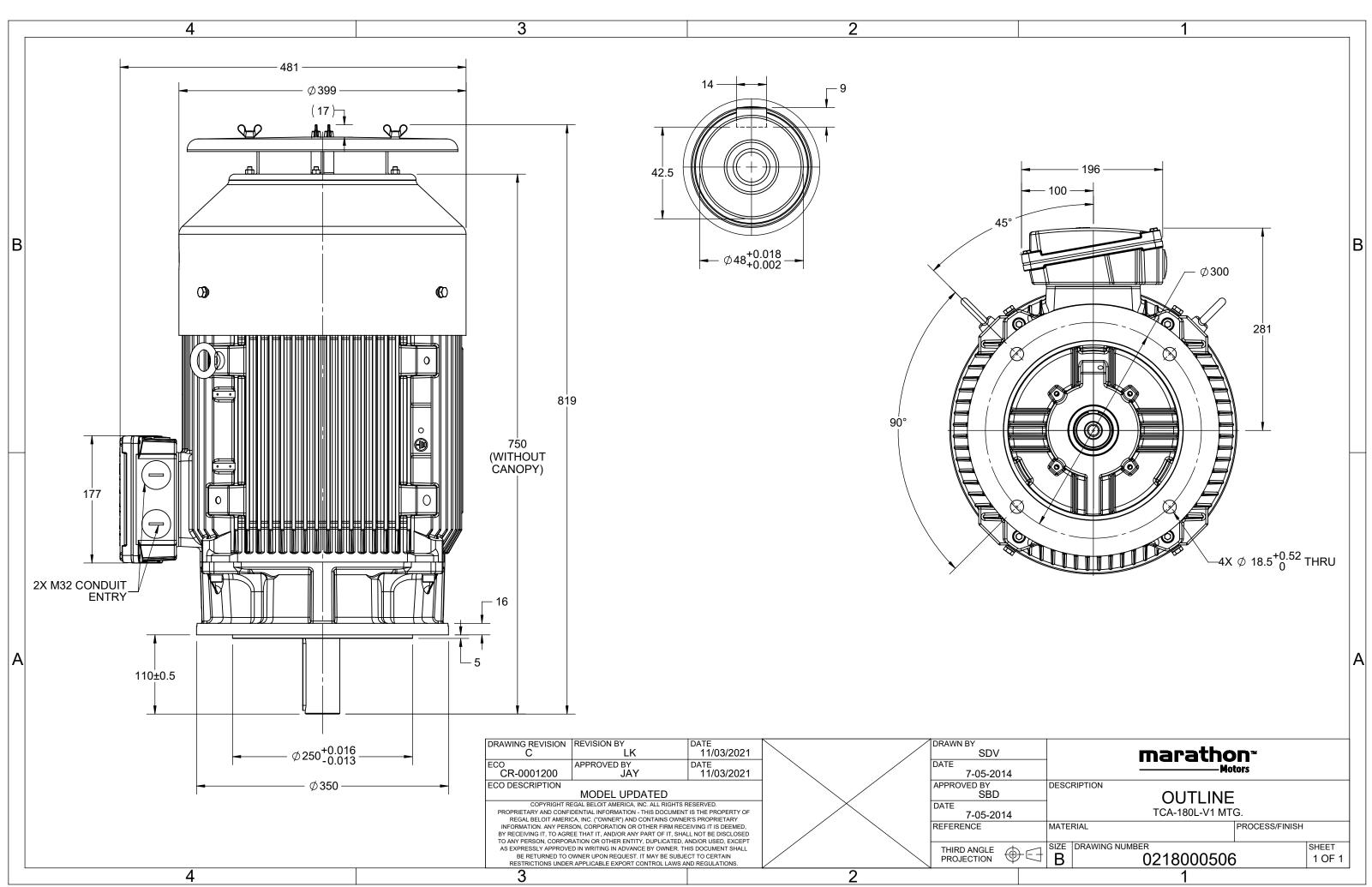
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	34.5 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.83
Duty	S1	Insulation Class	F
-			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180M No Protection	Ambient Temperature	40 °C
			· · · · · · · · · · · · · · · · · · ·
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	819 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000506	Connection Drawing	8442000085

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Model No. QCA18P2A1141GAA001

U	Δ/Υ	f	Р	Р	1	n	т	IE		% EFF a	tload	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	T _K /T _N	
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL		1/2FL	[pu]	[pu]	[pu]	
400	Δ	50	18.5	25	34.2	1479	120.41	IE4	-	94.2	94.2	93	0.83	0.77	0.64	7.6	2.6	3.6	
					QCA											IP 55			
Motor					TEFC						protecti	on				IP 55 IM V1			
Enclos										unting t									
	Materia	I			Cast Ir					Cooling method						IC 411			
Frame	size				180N	1					ght - ap					243		kg	
Duty					S1			Gross weight - approx.							263			kg	
Voltag	e variatio	on *			± 10%	6			Motor inertia							0.2410		kgm ²	
Freque	ency vari	ation *			± 5%				Load inertia				Cust	omer to Prov	vide				
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s	
Design	1				Ν				No	Noise level (1meter distance from motor)) 64			dB(A)	
Service	e factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4				
Insulat	ion class	;			F				Sta	Starting method						DOL			
Ambie	nt tempe	erature			-20 to +	-40		°C	Тур	Type of coupling						Direct			
Tempe	erature ri	ise (by i	resistand	ce)	80 [Clas	s B]		К	LR	LR withstand time (hot/cold)						15/30			
Altitud	le above	sea lev	el		1000)		meter	Dir	Direction of rotation						i-directional			
Hazard	dous area	a classif	ication		NA				Sta	Standard rotation						ckwise form	DE		
	Zone cl	assifica	tion		NA				Pai	Paint shade						RAL 5014			
	Gas gro	oup			NA				Acc	essorie	s								
	Temper	rature o	class		NA					Accessory - 1					PTC 150°C				
Rotor	type			Al	Aluminum Die cast				Accessory - 2						-				
Bearin	<i>·</i> ··			A	Anti-frictio	on ball				Acc	essory	- 3				-			
	DE beari	ng		63	811-2Z / 6	211-2Z			Ter		ox posit					TOP			
-	ation me	•		C	Greased fo	or life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X N	√32 x 1.5		
	of grease				NA											NA			
. / ۳ . 0	0.0000				NA NA						Auxiliary terminal box								

 I_A/I_N - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

NOTE

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 da	ta are subject to chang	ge. There may be slight v	ariations between calculated v	alues in this datashe	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC 60034-30-1

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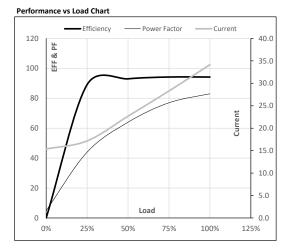


Model No. QCA18P2A1141GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	18.5	25	34.2	1479	12.28	120.41	IE4	40	S1	1000	0.2410	243

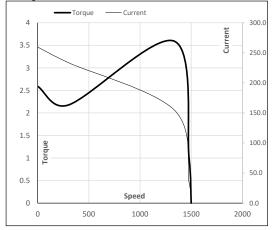
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	15.4	17.2	22.7	28.3	34.2	
Nm	0.0	29.8	59.8	90.0	120.4	
r/min	1500	1495	1490	1484	1479	
%	0.0	89.1	93.0	94.2	94.2	
%	4.9	44.0	64.0	77.0	83.0	
	Nm r/min %	A 15.4 Nm 0.0 r/min 1500 % 0.0	A 15.4 17.2 Nm 0.0 29.8 r/min 1500 1495 % 0.0 89.1	A 15.4 17.2 22.7 Nm 0.0 29.8 59.8 r/min 1500 1495 1490 % 0.0 89.1 93.0	A 15.4 17.2 22.7 28.3 Nm 0.0 29.8 59.8 90.0 r/min 1500 1495 1490 1484 % 0.0 89.1 93.0 94.2	A 15.4 17.2 22.7 28.3 34.2 Nm 0.0 29.8 59.8 90.0 120.4 r/min 1500 1495 1490 1484 1479 % 0.0 89.1 93.0 94.2 94.2



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	300	1336	1479	1500					
Current	А	259.6	233.6	154.7	34.2	15.4					
Torque	pu	2.6	2.2	3.6	1	0					

Starting Characteristics Chart



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

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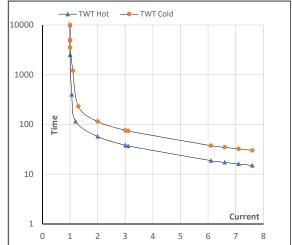
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	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	34.2	1479	12.28	120.41	IE4	40	S1	1000	0.2410	243

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	57	38	34	25	20	15
TWT Cold	s	10000	114	76	60	50	40	30
Current	ри	1	2	3	4	5	5.5	7.6

Thermal Characteristics Chart



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

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