PRODUCT INFORMATION PACKET

Model No: QCA0113A1141GAA001 Catalog No: QCA0113A1141GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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Product Information Packet: Model No: QCA0113A1141GAA001, Catalog No:QCA0113A1141GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC

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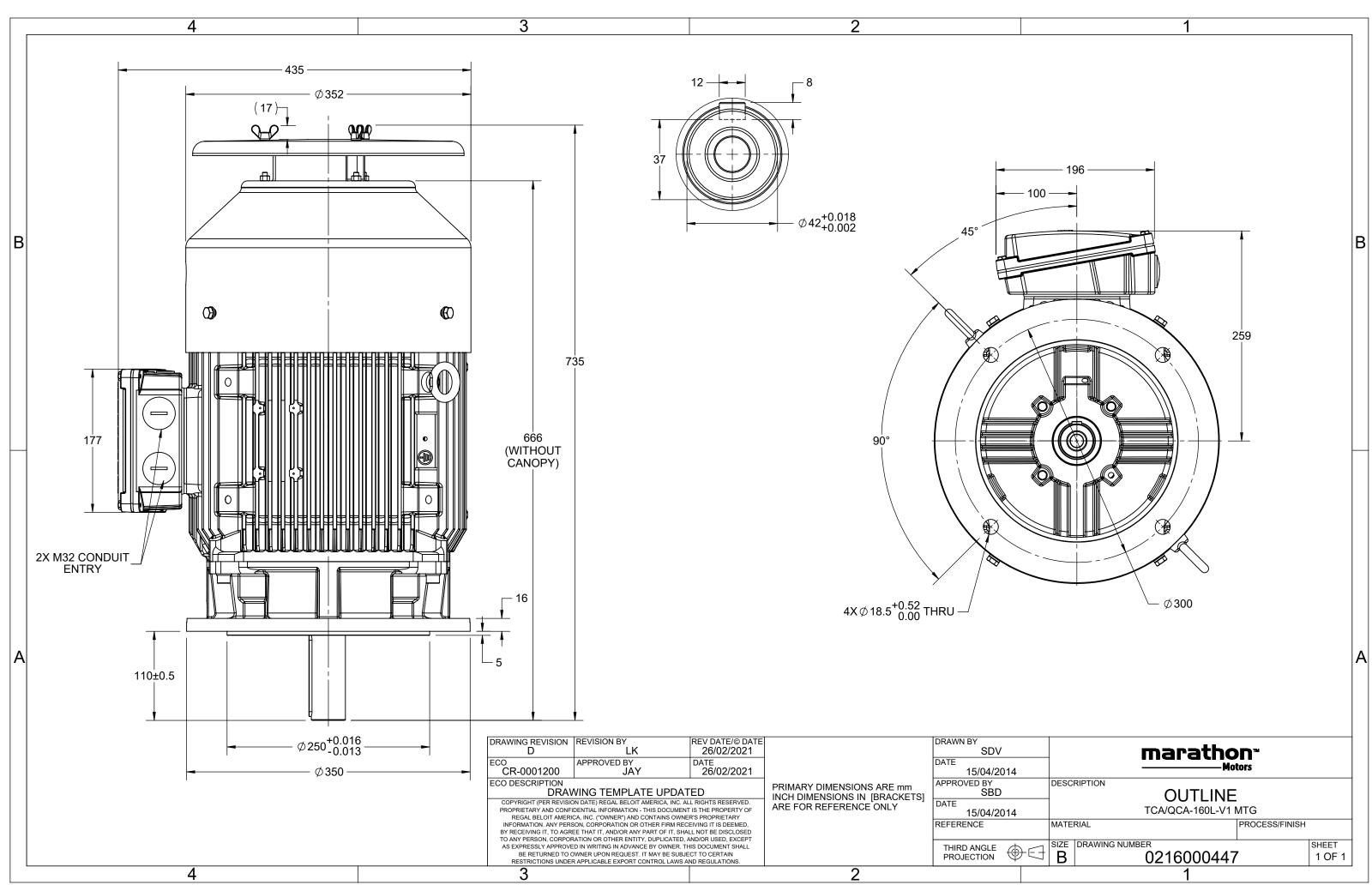
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.9 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	Νο
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	735 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000447

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U	Δ/Υ	f	Р	Р	1	n	т	IE	ç	% EFF at	tload	ł	PF	at_lo	ad	I _A /I _N	T_A/T_N	T _κ /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	 3/4FL		FL	 3/4FL		[uq]	[pu]	[pu]
400	Δ	50	11	15	22.6	984	108.63	IE4	-	92.3	92.3	, 89.7	0.76	0.67	0.53	7.7	3.1	3.5
Motor	type				QCA				Deg	ree of p	orotecti	on				IP 55		
Enclos	ure				TEFC				Мо	Mounting type						IM V1		
Frame	Materia	I			Cast Iro	on			Coc	Cooling method						IC 411		
Frame	size				160L				Мо	Motor weight - approx.						197		
Duty					S1				Gro	ss weig	ht - app	rox.				217		kg
Voltag	e variatio	on *			± 10%	Ś		Motor inertia							0.2398		kgm ²	
Freque	ency vari	ation *			± 5%			Load inertia					Custo	omer to Provid	le			
Combi	ned varia	ation *			10%				Vib	ration le	evel					2.2		mm/s
Design	I.				N				Noi	Noise level (1meter distance from motor))	61		dB(A)
Service	e factor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			
Insulat	ion class	;			F				Sta	rting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	erature ri	ise (by i	resistand	ce)	80 [Class	5 B]		К	LR v	LR withstand time (hot/cold)					15/30			S
Altitud	e above	sea lev	el		1000			meter	Dire	Direction of rotation						i-directional		
Hazaro	lous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	kwise form D		
	Zone cl	assifica	tion		NA				Pair	nt shade	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Acc	essory -	· 1				PTC 150°C		
Rotor	type			Al	uminum D)ie cast				Acc	essory -	- 2				-		
Bearin	g type			A	Anti-frictio	n ball				Acc	essory -	- 3				-		
DE / N	DE beari	ng		63	809-2Z/6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M3	32 x 1.5	
Туре о	f grease				NA				Aux	iliary te	rminal l	хос				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

I_K/I_N - Breakdown 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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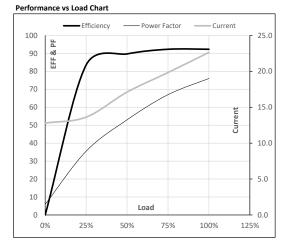


Model No. QCA0113A1141GAA001

Enclosure	U	Δ / Y	f	Р	Р	1	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	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

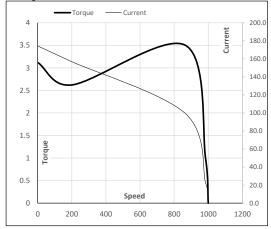
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	12.8	13.6	17.1	19.8	22.6	
Nm	0.0	26.8	53.9	81.1	108.6	
r/min	1000	996	992	988	984	
%	0.0	83.5	89.7	92.3	92.3	
%	5.9	35.5	53.0	67.0	76.0	
	Nm /min %	Nm 0.0 /min 1000 % 0.0	Nm 0.0 26.8 /min 1000 996 % 0.0 83.5	Nm 0.0 26.8 53.9 /min 1000 996 992 % 0.0 83.5 89.7	Nm 0.0 26.8 53.9 81.1 /min 1000 996 992 988 % 0.0 83.5 89.7 92.3	Nm 0.0 26.8 53.9 81.1 108.6 /min 1000 996 992 988 984 % 0.0 83.5 89.7 92.3 92.3



Motor Spee	d Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	866	984	1000	
Current	А	174.3	156.9	99.4	22.6	12.8	
Torque	pu	3.1	2.6	3.5	1	0	





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

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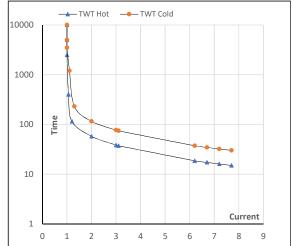
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	58	39	30	25	20	15
TWT Cold	s	10000	116	77	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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