PRODUCT INFORMATION PACKET

Model No: TCA0302A1141GAC010 Catalog No: TCA0302A1141GAC010 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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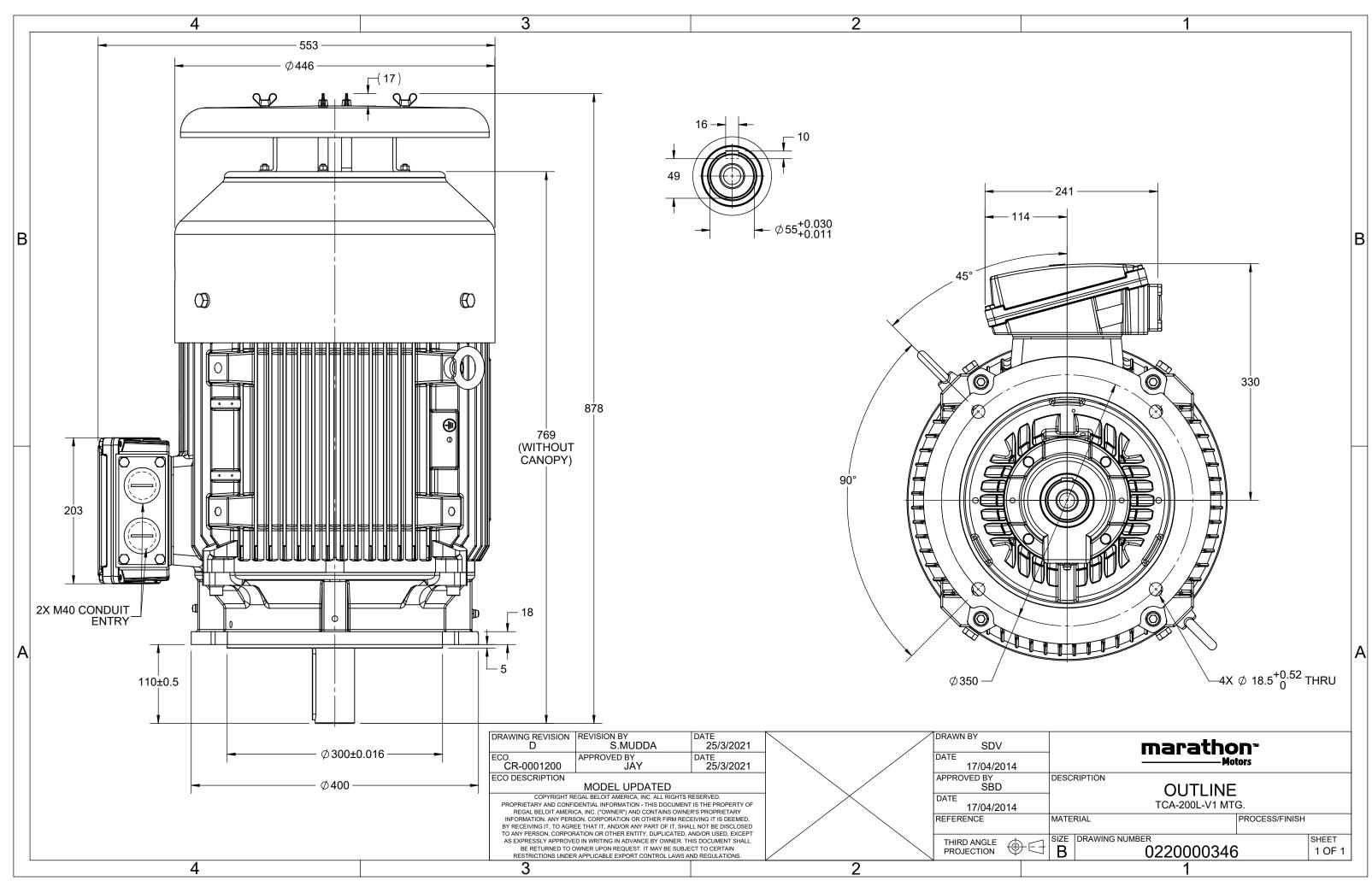
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	54.4 A	Speed	1479 rpm		
Service Factor	1	Phase	3		
Efficiency	93.6 %	Power Factor	0.85		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
UL	No	CSA	No		
CE	Yes	IP Code	55		
Efficiency Class	IE3				

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	Сз
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	876 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000346	Connection Drawing	8442000085

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U Δ / Y f	P I	P I	n	т	IE	9	% EFF at	tload	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [kW] [h	ip] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50	30 4	0 54.4	1479	192.65	IE3	-	93.6	93.6	93.6	0.85	0.82	0.72	6.6	2.2	2.9
		TCA											10.55		
Motor type		TCA						orotecti	on				IP 55		
Enclosure		TEFC					unting						IM V1		
Frame Material		Cast Iro					oling me						IC 411		
Frame size		200L						ght - ap					284		kg
Duty		S1				Gro	oss weig	ht - app	rox.				314		kg
Voltage variation *		± 10%	5			Мо	tor iner	tia					0.4488		kgm ²
Frequency variation *		± 5%				Loa	d inerti	а				Custo	omer to Prov	ide	
Combined variation *		10%				Vib	ration le	evel					2.2		mm/s
Design		N				Noi	se level	(1mete	er dista	nce fror	n motor)	65		dB(A)
Service factor		1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class		F				Sta	rting me	ethod					DOL		
Ambient temperature		-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by res	istance)	80 [Class	5 B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S
Altitude above sea level		1000			meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardous area classifica	tion	NA				Sta	ndard r	otation				Cloc	ckwise form D	DE	
Zone classificatio	n	NA				Pai	nt shade	e					RAL 5014		
Gas group		NA				Acc	essorie	S							
Temperature clas	s	NA					Acc	essory -	1				PTC 150°C		
Rotor type		Aluminum D)ie cast				Acc	essory -	2				-		
Bearing type		Anti-frictio	n ball				Acc	essory -	3				-		
DE / NDE bearing		6312 C3/6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrication method		Regreasa	able					cable siz		uit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
Type of grease	CHE	EVRON SRI-2 o	r Equiva	lent				erminal	-,				NA		
1			•				,								

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

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

 $\rm T_A/\rm T_N$ - Locked Rotor 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 combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_



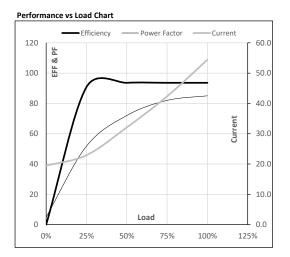


Model No. TCA0302A1141GAC010

Enclosure	U	Δ / Y	f	Р	Р	1	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	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	284

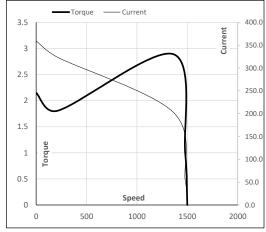
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	19.5	22.9	32.1	42.3	54.4	
Torque	Nm	0.0	47.6	95.6	143.9	192.6	
Speed	r/min	1500	1495	1490	1485	1479	
Efficiency	%	0.0	90.8	93.6	93.6	93.6	
Power Factor	%	5.0	51.8	72.0	82.0	85.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	214	1361	1479	1500					
Current	А	359.2	323.3	203.2	54.4	19.5					
Torque	pu	2.2	1.8	2.9	1	0					





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

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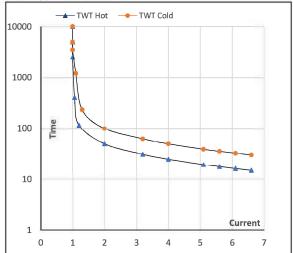
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	284

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	s	10000	50	42	25	21	19	15
TWT Cold	s	10000	99	65	50	41	37	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



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

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