PRODUCT INFORMATION PACKET

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Model No: TCN0302A1141GAC010 Catalog No: TCN0302A1141GAC010 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 200L Frame, TEFC



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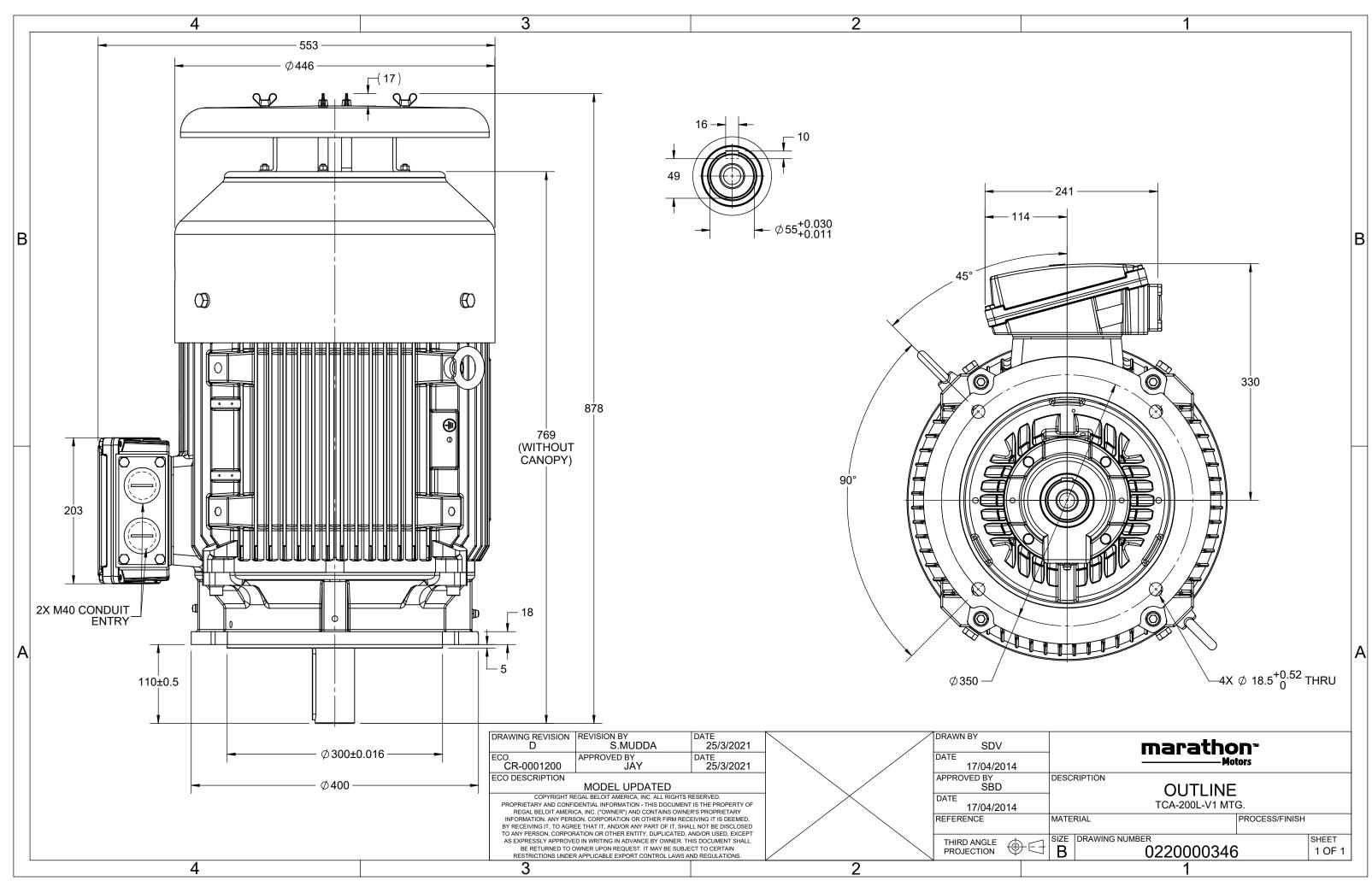
Nameplate Specifications

Phase	3	Output HP	40 Hp
Output KW	30.0 kW	Voltage	400 V
Speed	1479 r/min	Service Factor	1
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	54.4 A	Power Factor	0.85
Duty	S1	Insulation Class	F
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	С3
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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()	Hz] [kW] 50 30	[hp]				IE		% EFF a		4		at lo	Juu	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
400 Δ 5	F0 20	1.141	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
	50 30	40	54.4	1479	192.65	IE3	-	93.6	93.6	93.6	0.85	0.82	0.72	6.6	2.2	2.9
Motor type			TCN				Deg	ree of r	protectic	n				IP 55		
Enclosure			TEFC					unting t						IM V1		
Frame Material			Cast Iro	on				ling me						IC 411		
rame size			200L					•	ght - app	rox.				284		k
Duty			S1						ht - appr					314		k
/oltage variation	*		± 10%	5				tor iner						0.4488		kgm
Frequency variation			± 5%				Loa	d inerti	Э				Custo	omer to Provid	e	Ū
Combined variation	on *		10%				Vibr	ration le	evel					2.2		mm/s
Design			Ν				Nois	se level	(1mete	r distanc	e from r	notor)		65		dB(A
Service factor			1.0				No.	of star	s hot/co	ld/Equal	ly sprea	d		2/3/4		
nsulation class			F				Star	ting me	ethod					DOL		
Ambient temperat	ture		-20 to +	40		°C	Тур	e of cou	upling					Direct		
Cemperature rise	(by resistan	ce)	80 [Class	5 B]		К	LR v	vithstar	nd time (hot/cold)		15/30			:
Altitude above sea	a level		1000			meter	Dire	ection o	f rotatio	n			В	i-directional		
Hazardous area cl	lassification		Ex nA				Star	ndard ro	otation				Cloc	kwise form DE		
Zone class	sification		Zone	2			Pair	nt shade	9					RAL 5014		
Gas group)		IIC				Acc	essorie	5							
Temperati	ure class		Т3					Acc	essory -	1				PTC 150°C		
Rotor type			uminum D					Acc	essory -	2				-		
Bearing type	g type Anti-friction ball				Acc	essory -	3			-						
DE / NDE bearing		63	12 C3/6	212 C3			Terr	minal b	ox positi	on				TOP		
ubrication metho	bd		Regrease				Max	kimum	cable siz	e/condui	t size	1R	x 3C x 5	50mm²/2 x M4	0 x 1.5	
Type of grease		CHEVRO	ON SRI-2 o	or Equival	ent		Aux	iliary te	rminal b	ох				NA		

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

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

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	values in this datasheet	and the motor namep	late figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1

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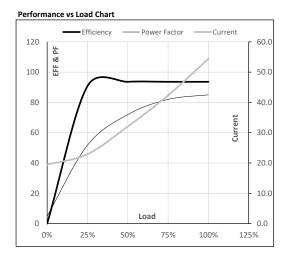


Model No. TCN0302A1141GAC010

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	30	40	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	284

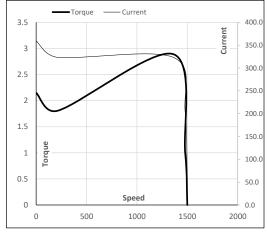
Motor Load Data

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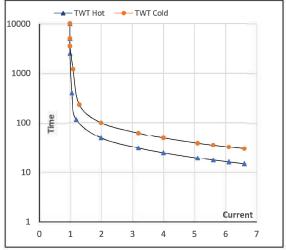
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Enclosure	U	Δ/Υ	f	Р	Ρ	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40.0	54.4	1479	19.64	192.65	IE3	40	S1	1000	0.4488	284

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I 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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