# **PRODUCT INFORMATION PACKET**

Model No: TCN1504A1141GAC010 Catalog No: TCN1504A1141GAC010 TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 355M Frame, TEFC



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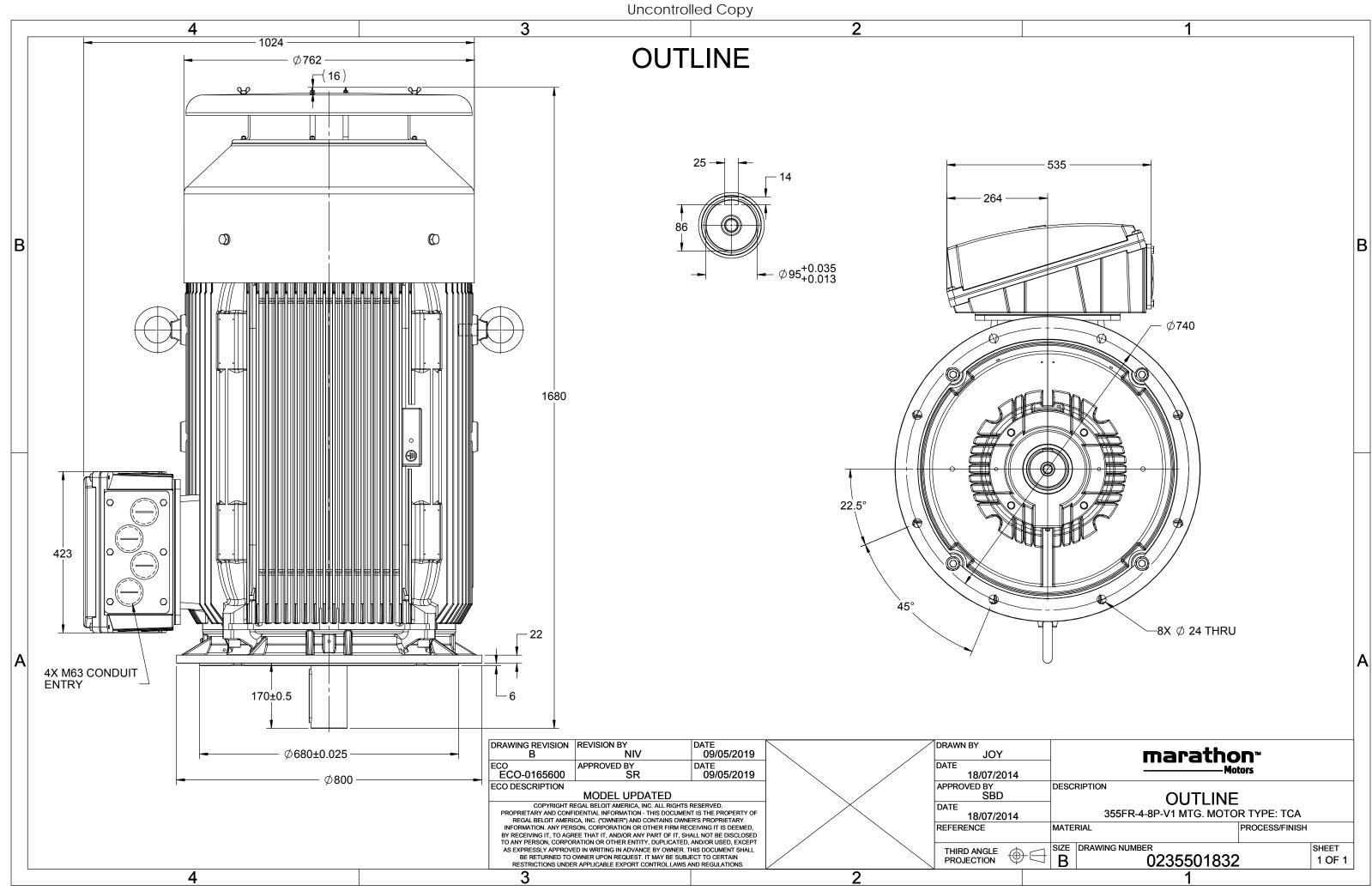
# Nameplate Specifications

Output HP	200 Нр	Output KW	150.0 kW
Frequency	50 Hz	Voltage	400 V
Current	280.3 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1677 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501832

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## Model No. TCN1504A1141GAC010

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at _ lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	150	200	280.3	742	1919.75	IE3	-	94.2	94.2	94.7	0.82	0.79	0.7	6	1.5	2.4
Motor	tyne				TCN				Dec	ree of	protectio	n				IP 55		
Enclos					TEFC					unting						IM V1		
	Materia	I			Cast Irc	n				oling me						IC 411		
Frame		-			355M					0	ght - app	orox.				1726		kg
Duty					S1						sht - app					1771		kg
	e variatio	on *			± 10%					tor iner						9.9098		kgm <sup>2</sup>
	ency varia				± 5%				Loa	d inerti	а				Custo	omer to Provid	de	Ū
	, ned varia				10%				Vib	ration l	evel					2.8		mm/s
Design					Ν				Noi	se level	l ( 1mete	r distanc	e from r	notor)		65		dB(A)
Service	e factor				1.0				No.	of star	ts hot/co	old/Equal	ly sprea	d		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	ce)	80 [ Class	B]		К	LR	withsta	nd time (	hot/cold	)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	n			В	i-directional		
Hazard	lous area	a classif	ication		Ex nA				Sta	ndard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		Zone 2	2			Pai	nt shad	e					RAL 5014		
	Gas gro	up			IIC				Acc	essorie	s							
	Temper	rature o	class		Т3					Aco	cessory -	1				PTC 150°C		
Rotor t	ype			Al	uminum d	ie cast				Aco	cessory -	2				-		
Bearin	g type			/	Anti-frictio	n ball				Aco	cessory -	3				-		
DE / N	DE beari	ng		63	22 C3/63	322 C3			Ter	minal b	ox positi	on				TOP		
Lubrica	ation me	thod			Regreasa	ble			Ma	ximum	cable siz	e/condui	t size	1R	x 3C x 3	00mm²/4 x M	63 x 1.5	
Туре о	f grease			CHEVR	ON SRI-2 o	r Equival	ent		Aux	diliary te	erminal b	юх				NA		
I <sub>A</sub> /I <sub>N</sub> - L	.ocked R	otor Cu	irrent / F	Rated C	urrent				Т <sub>к</sub> /	T <sub>N</sub> - Bre	akdown	Torque /	Rated T	orque				

 $T_A/T_N$  - Locked Rotor 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	variations between calculated	I 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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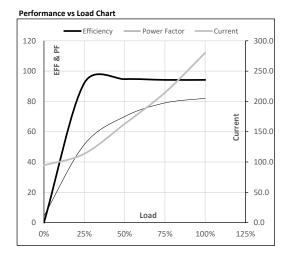


## Model No. TCN1504A1141GAC010

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	150	200	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1726

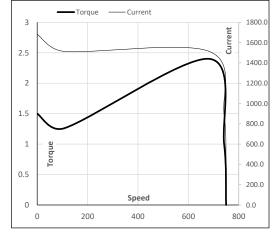
### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	94.6	113.6	162.7	214.4	280.3	
Torque	Nm	0.0	476.2	954.6	1435.7	1919.7	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	92.1	94.7	94.2	94.2	
Power Factor	%	4.4	51.5	70.0	79.0	82.0	



Motor Speed	l Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	683	742	750	
Current	А	1681.7	1513.6	887.6	280.3	94.6	
Torque	nu	15	13	24	1	0	

### Starting Characteristics Chart



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

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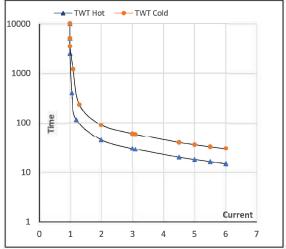
### Model No. TCN1504A1141GAC010

Enclosure	U	Δ/Υ	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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	150	200.0	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1726

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	1 <sub>5</sub>	LR
TWT Hot	s	10000	45	30	25	18	16	15
TWT Cold	s	10000	90	60	48	36	33	30
Current	pu	1	2	3	4	5	5.5	6

### Thermal Characteristics Chart



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

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