PRODUCT INFORMATION PACKET

Model No: TCA1504AF141GAC010 Catalog No: TCA1504AF141GAC010 TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 355M Frame, TEFC



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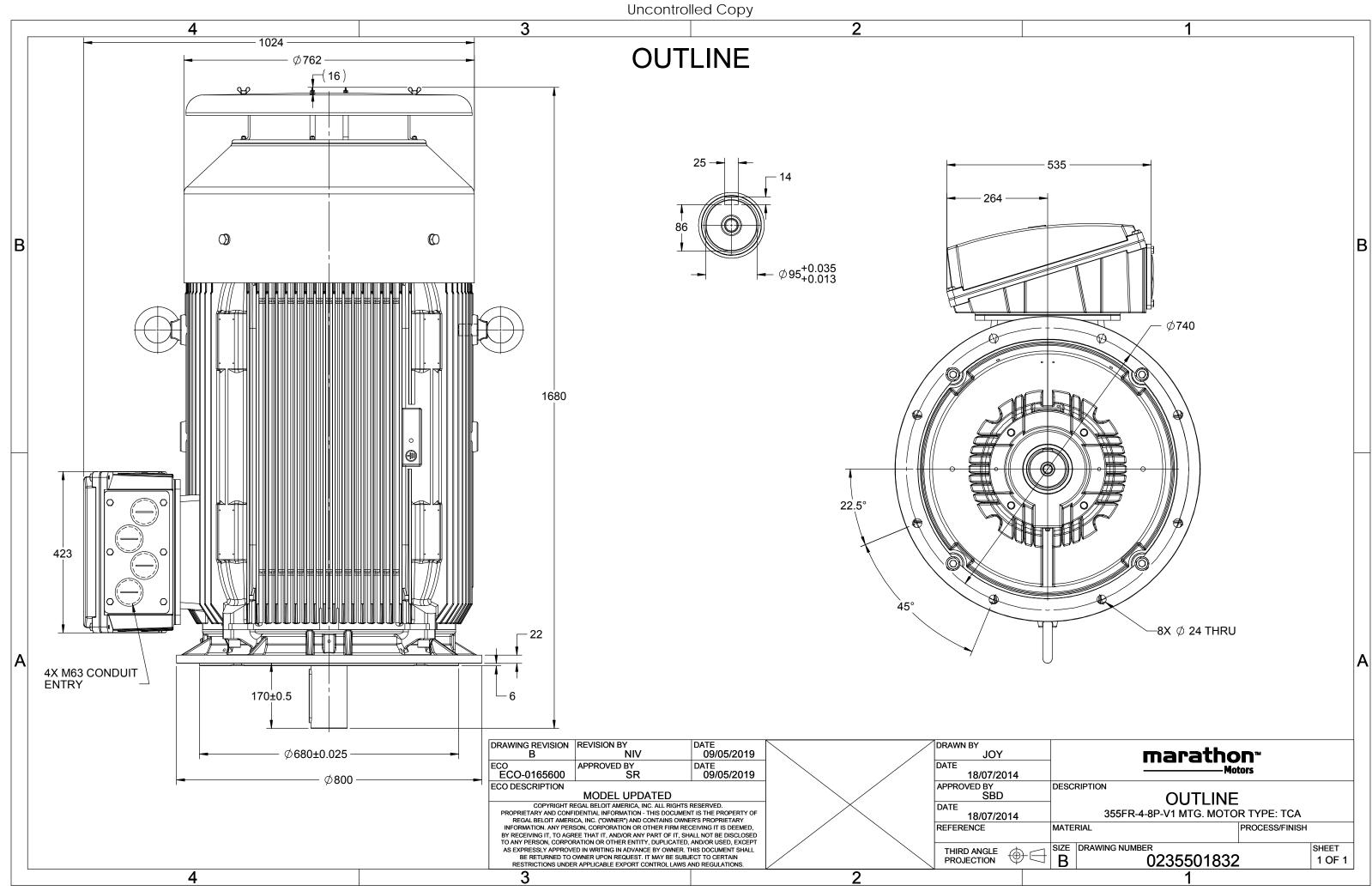
Nameplate Specifications

Output HP	200 Нр	Output KW	150.0 kW
Frequency	50 Hz	Voltage	380 V
Current	295.0 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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3 of 7





TerraMAX[®]

Model No. TCA1504AF141GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	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]
380	Δ	50	150	200	295.04	742	1919.8	IE3	-	94.2	94.2	94.7	0.82	0.79	0.7	6	1.5	2.4
Motor t	<i>'</i> ·				TCA						protecti	on				IP 55		
Enclosu	ire				TEFC					unting						IM V1		
Frame I	Material				Cast Iro					oling me						IC 411 1726		
Frame s	size				355M				Mo	tor wei	ght - ap	prox.					kg	
Duty					S1				Gro	Gross weight - approx. 1771								
Voltage	variatio	on *			± 10%				Motor inertia						9.9098		kgm ²	
Frequer	ncy varia	ation *			± 5%				Load inertia					Cust	omer to Prov	ide		
Combin	ied varia	ation *			10%				Vib	ration l	evel					2.8		
Design					Ν				Noi	se level	(1mete	er distar	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		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambien	nt tempe	erature			-20 to +4	40		°C	Тур	e of co	upling					Direct		
Temper	ature ri	se (by i	resistance	e)	80 [Class	B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitude	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor ty	ype			Al	uminum di	e cast				Accessory - 2						-		
Bearing	type			A	nti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NC) DE bearii	ng		63	22 C3/63	22 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x N	/63 x 1.5	
Type of	grease		C	HEVRO	ON SRI-2 o	r Equival	ent				erminal					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

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.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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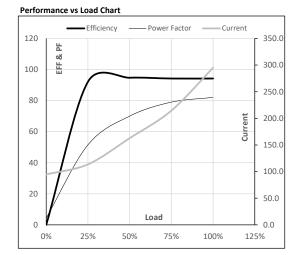




Model No. TCA1504AF141GAC010

Enclosure	U	Δ / Y	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	380	Δ	50	150	200.0	295.0	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1726

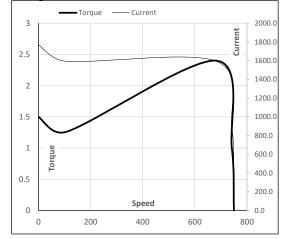
Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	94.6	113.6	162.7	214.4	295.0	
Torque	Nm	0.0	476.2	954.6	1435.7	1919.7	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	92.1	94.7	94.2	94.2	
Power Factor	%	4.4	51.5	70.0	79.0	82.0	



Motor Speed Torque Data

wotor speed	i Torque Da	เล				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	683	742	750
Current	А	1770.2	1593.2	887.6	295.0	94.6
Torque	pu	1.5	1.3	2.4	1	0

Starting Characteristics Chart



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

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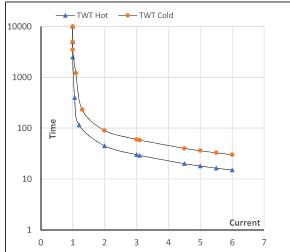
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Enclosure	U	Δ / Y	f	Р	Ρ	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	150	200.0	295.0	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1726

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	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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