PRODUCT INFORMATION PACKET

Model No: TCA0114A1131GAC010 Catalog No: TCA0114A1131GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC



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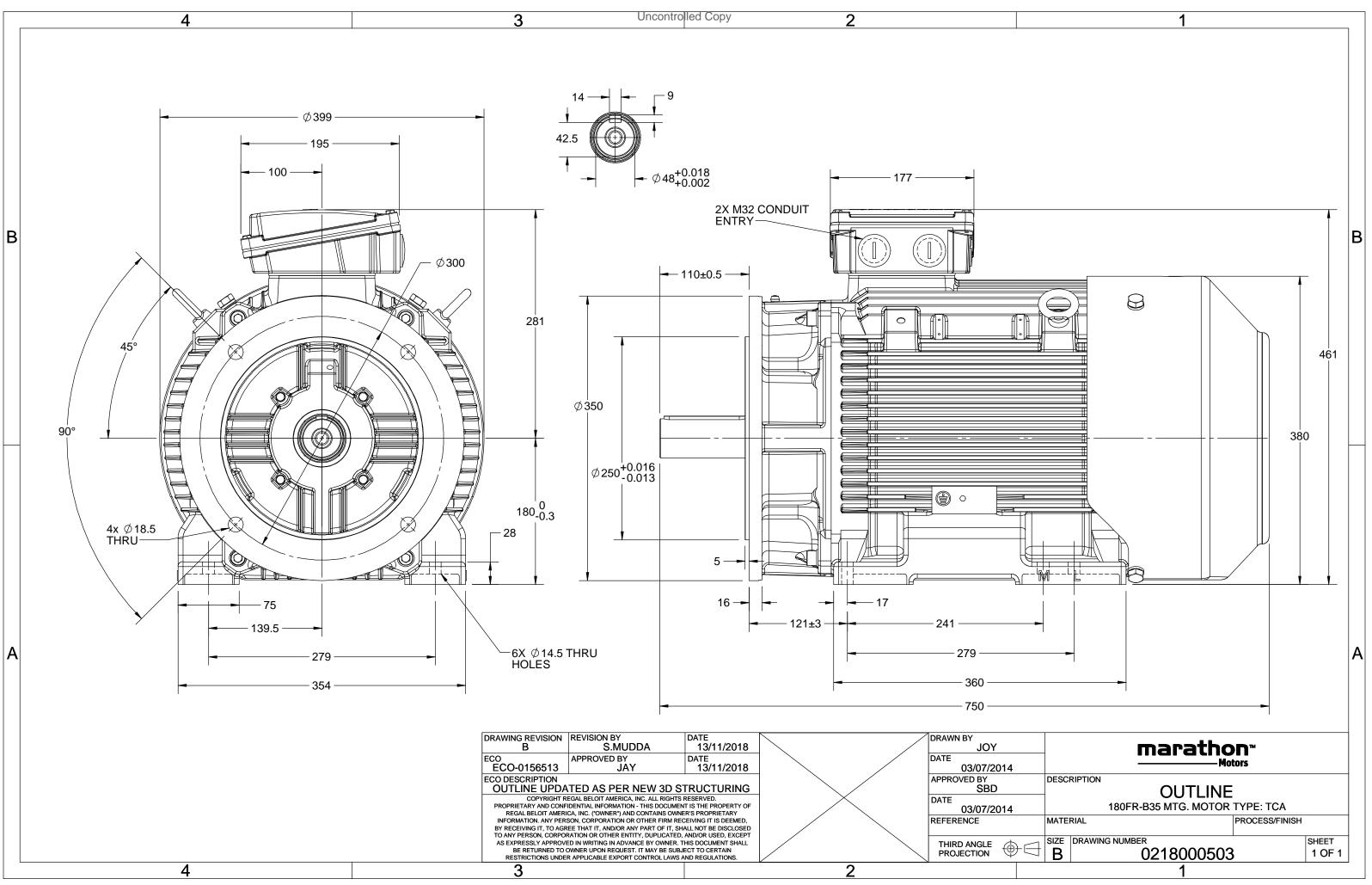
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	24.6 A	Speed	730 rpm		
Service Factor	1	Phase	3		
Efficiency	88.6 %	Power Factor	0.73		
Duty	S1	Insulation Class	F		
			Totally Enclosed Fan Cooled		
Frame	180L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	180L 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 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000503	Connection Drawing	8442000085

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$U \Delta / Y f$	Р	Р	Ι	n	Т	IE		% 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]
400 Δ 50	11	15	24.5	730	146.51	IE3	-	88.6	88.6	89.5	0.73	0.66	0.53	6.5	1.8	3
Motor type			TCA					,	orotecti	on				IP 55		
Enclosure			TEFC					unting						IM B35		
Frame Material			Cast Iro	n				oling me						IC 411		
Frame size			180L						ght - ap					239		kg
Duty						Gro	Gross weight - approx.					259			kg	
Voltage variation *	± 10%				Mo	Motor inertia					0.3337		kgm ²			
Frequency variation *					Loa	d inerti	а				Customer to Provide					
Combined variation *	ned variation * 10%				Vib	ration l	evel					2.2		mm/s		
Design	n N				Noi	Noise level (1meter distance from motor)					.)	60		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 m	ethod					DOL		
Ambient temperature		-	-20 to +4	40		°C	Тур	e of co	upling					Direct		
Temperature rise (by res	sistance)	80	0 [Class	B]		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude above sea level			1000			meter	Dir	ection c	f rotatio	on			В	i-directional		
Hazardous area classific	ation		NA				Sta	ndard r	otation				Cloc	ckwise form [DE	
Zone classification	on		NA				Pai	nt shad	е					RAL 5014		
Gas group			NA				Acc	essorie	S							
Temperature cla	iss		NA					Acc	essory -	- 1				PTC 150°C		
Rotor type		Alum	ninum d	e cast				Acc	essory -	- 2				-		
Bearing type		Ant	ti-frictio	n ball				Acc	essory -	- 3				-		
DE / NDE bearing		6311	-2Z / 6	211-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication method		Gre	eased fo	r life					cable si		luit size	1R	x 3C x 3	35mm²/2 X N	132 x 1.5	
Type of grease			NA				Aux	diliary te	erminal	box				NA		

 $I_{\text{A}}/I_{\text{N}}$ - 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. India Aus/Nz Brazil Efficie Chi E

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

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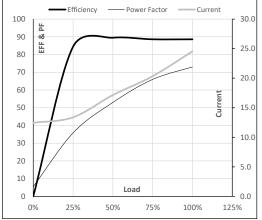


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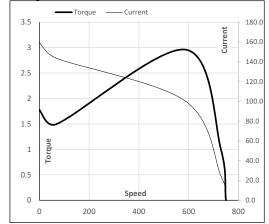
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	239

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	13.4	17.2	20.3	24.5	
Torque	Nm	0.0	35.9	72.2	109.1	146.5	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	84.4	89.5	88.6	88.6	
Power Factor	%	5.5	35.8	53.0	66.0	73.0	

Performance vs Load Chart



Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

1.8

159.6

P-Up

68

143.6

1.5

BD

588

100.1

3.0

Rated

730

24.5

1

NL

750

12.5

0

Load Point

Speed

Current

Torque

REGAL





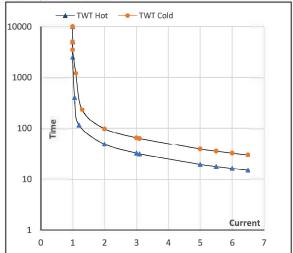
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	239

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	s	10000	49	33	24	20	18	15
TWT Cold	s	10000	98	65	57	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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