PRODUCT INFORMATION PACKET



Model No: TCA0043A3131GACD01 Catalog No: TCA0043A3131GACD01 Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 132M Frame, TEFC



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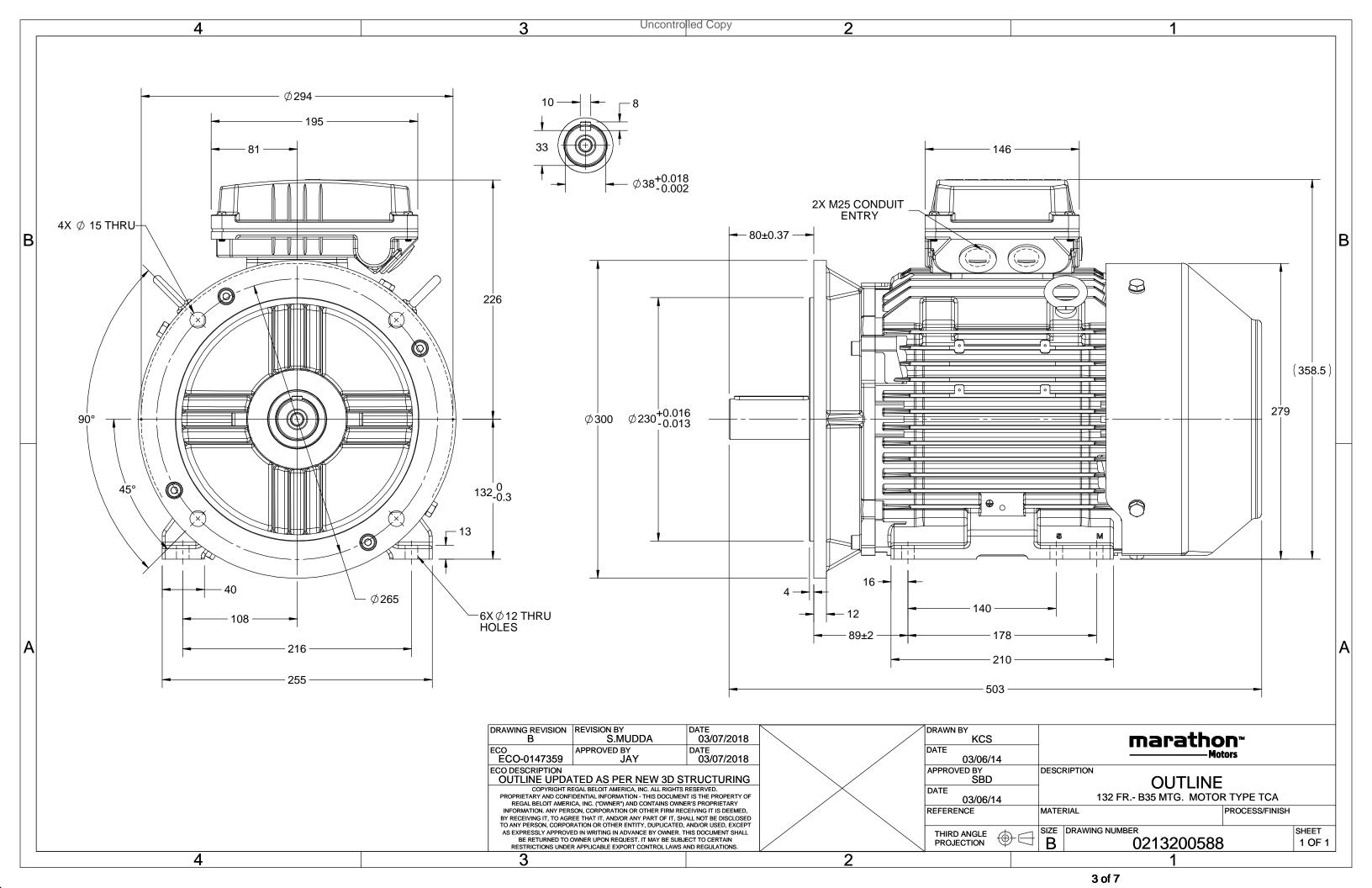
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	415 V
Current	8.6 A	Speed	972 rpm
Service Factor	1	Phase	3
Efficiency	86.8 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 ℃
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	6	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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213200588

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE								
	>0~6	±0.1						
LINEAR DIM	>6~30	±0.2						
	>30~120	±0.3						



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017





TerraMAX[®]

Model No. TCA0043A3131GACD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load			PF	at lo	ad	I_A/I_N	T _A /T _N	T _K /T _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]
415	Δ	50	4	5.5	8.5	972	40.36	IE3	-	86.8	86.8	86.2	0.75	0.66	0.52	5.6	2.0	2.5

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resistance)	70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	B
DE / NDE bearing	6308-2Z / 6208-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	77	kg
Gross weight - approx.	80	kg
Motor inertia	0.0494	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor)	59	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1R >	x 3C x 16mm²/2 x M25 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$ - Locked Rotor Current / Rated Current

 T_A/T_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	-	-	IS 12615 : 2018	-	-	_

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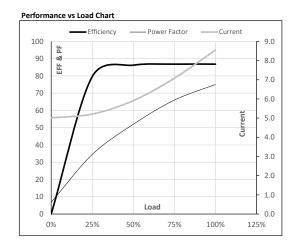




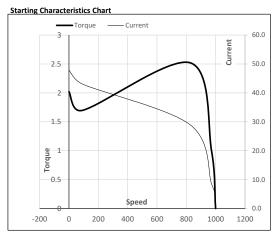
Model No. TCA0043A3131GACD01

Enclosure	U	Δ/Υ	f	Р	Р	- 1	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	415	Δ	50	4	5.5	8.5	972	4.12	40.36	IE3	50	S1	1000	0.0494	77

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	5.0	5.2	5.9	7.1	8.5	
Torque	Nm	0.0	9.9	19.9	30.0	40.4	
Speed	r/min	1000	993	987	980	972	
Efficiency	%	0.0	79.6	86.2	86.8	86.8	
Power Factor	%	6.8	34.5	52.0	66.0	75.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 91 827 972 1000 Speed r/min 47.9 8.5 Current Α 43.1 28.9 5.0 Torque 0 pu



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

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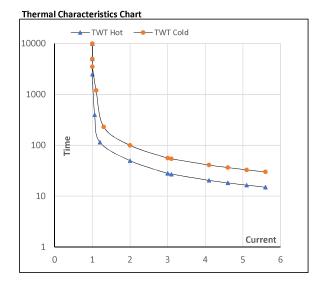




Model No. TCA0043A3131GACD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	4	5.5	8.5	972	4.11	40.36	IE3	50	S1	1000	0.0494	77

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 56 42 34 31 30 Current 1 3 5 5.5 5.6 pu



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

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