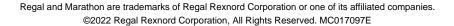
PRODUCT INFORMATION PACKET



Model No: TCA2001A3131GACD01 Catalog No: TCA2001A3131GACD01 Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC







Product Information Packet: Model No: TCA2001A3131GACD01, Catalog No:TCA2001A3131GACD01 Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 315L Frame, TEFC



Nameplate Specifications

Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	415 V
Current	326.4 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	4	Efficiency Class	IE3

Technical Specifications

Squirrel Cage	Starting Method	Direct On Line
2	Rotation	Bi-Directional
B35	Motor Orientation	Horizontal
СЗ	Opp Drive End Bearing	СЗ
Cast Iron	Shaft Type	Keyed
1287 mm	Frame Length	840 mm
65 mm	Shaft Extension	140 mm
Тор		
0231500882	Connection Drawing	8442000085
	2 B35 C3 Cast Iron 1287 mm 65 mm Top	2 Rotation B35 Motor Orientation C3 Opp Drive End Bearing Cast Iron Shaft Type 1287 mm Frame Length 65 mm Shaft Extension Top

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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

GEOM	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. TCA2001A3131GACD01

U	Δ/Υ	f	Р	Р	1	n	T	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	200	270	326.3	2984	644.22	IE3		95.8	95.8	94.7	0.89	0.87	0.79	7.7	2.4	3.7

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315L	
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 resist	ance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6316 C3 / 6316 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	1294	kg
Gross weight - approx.	1339	kg
Motor inertia	3.2219	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from moto	or) 83	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 1F	R x 3C x 240mm ² /2 x M63 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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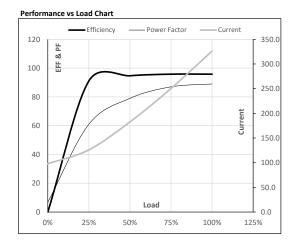




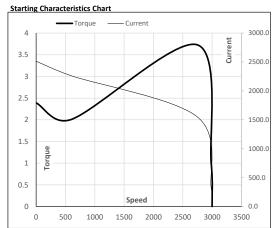
Model No. TCA2001A3131GACD01

Enclosure	U	Δ / Y	f	Р	Р	1	n	T	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	200	270.0	326.3	2984	65.69	644.22	IE3	50	S1	1000	3.2219	1294

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 97.7 126.0 182.7 250.4 326.3 644.2 Torque Nm 0.0 160.4 321.3 482.5 3000 2996 2989 2984 Speed r/min 2992 Efficiency % 0.0 91.1 94.7 95.8 95.8 Power Factor 6.7 61.0 79.0 87.0 89.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2745 2984 3000 Speed r/min Current Α 2512.9 2261.6 1552.5 326.3 97.7 Torque pu



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

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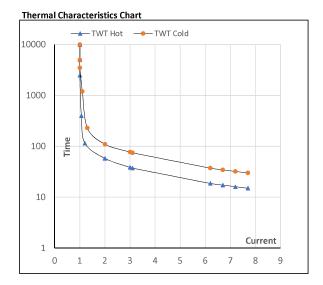




Model No. TCA2001A3131GACD01

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	415	Δ	50	200	270	326.3	2984	65.65	644.22	IE3	50	S1	1000	3.2219	1294

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 25 TWT Cold s 10000 110 77 60 45 40 30 Current 1 3 5 5.5 7.7 pu



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

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