PRODUCT INFORMATION PACKET



Model No: TCA2204A3141GACD01
Catalog No: TCA2204A3141GACD01

Cast Iron Motor, 295 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355L Frame, TEFC





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Product Information Packet: Model No: TCA2204A3141GACD01, Catalog No:TCA2204A3141GACD01 Cast Iron Motor, 295 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 355L Frame, TEFC



Nameplate Specifications

Output HP	295 Hp	Output KW	220.0 kW		
Frequency	50 Hz	Voltage	415 V		
Current	385.2 A	Speed	742 rpm		
Service Factor	1	Phase	3		
Efficiency	94.6 %	Power Factor	0.84		
Duty	S 1	Insulation Class	F		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322		
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	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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		
Outline Drawing	0235501832	Connection Drawing	8442000085

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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







Model No. TCA2204A3141GACD01

U	Δ/Υ	f	Р	Р	- 1	n	T	IE	% EFF at load			_ load PF at load			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	220	295	385.2	742	2879.25	IE3	-	94.6	94.6	95.2	0.84	0.81	0.73	6.1	1.6	2.4

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355L	
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	6322 C3 / 6322 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	2144	kg
Gross weight - approx.	2189	kg
Motor inertia	14.7210	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mot	tor) 65	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 1	1R x 3C x 300mm ² /4 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_K/T_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 $\,$

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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

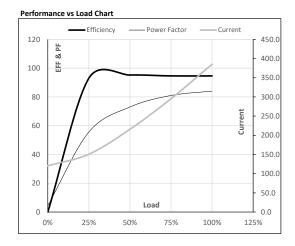




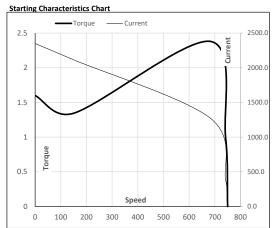
Model No. TCA2204A3141GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	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	220	295.0	385.2	742	293.60	2879.25	IE3	50	S1	1000	14.721	2144

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	120.5	150.7	215.6	295.3	385.2	
Torque	Nm	0.0	714.1	1431.8	2153.2	2879.2	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	93.0	95.2	94.6	94.6	
Power Factor	%	4.4	55.6	73.0	81.0	84.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 150 683 742 750 r/min Speed Current Α 2349.6 2114.6 1273.4 385.2 120.5



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

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Torque

pu

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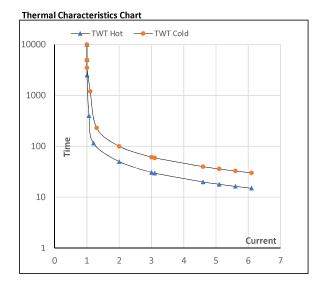




Model No. TCA2204A3141GACD01

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	220	295	385.2	742	293.40	2879.25	IE3	50	S1	1000	14.7210	2144

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 61 50 37 34 30 Current 1 3 5 5.5 6.1 pu



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

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