PRODUCT INFORMATION PACKET



Model No: TCA1321A3141GACD01
Catalog No: TCA1321A3141GACD01
Taggre MAX® Coat Iron Motor, 175 LID, 3 Pb, 50 LID, 415 V

TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 315M Frame



FRegalRexnord

Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2025 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Nameplate Specifications

Phase	3	Output HP	175 Hp
Output KW	132.0 kW	Voltage	415 V
Speed	2984 r/min	Service Factor	1
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	216.3 A	Power Factor	0.89
Duty	S1	Insulation Class	F
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
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	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1311 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500889

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:04/22/2025

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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. TCA1321A3141GACD01

U	Δ/Υ	f	Р	Р	1	n	T	IE	% EFF at load		PF at load			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	132	175	216.3	2984	417.55	IE3		95.4	95.4	93.3	0.89	0.85	0.77	7.7	2.3	3.9

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315M	
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 V1					
Cooling method	IC 411					
Motor weight - approx.	1072	kg				
Gross weight - approx.	1117	kg				
Motor inertia	2.5544					
Load inertia	Customer to Provide					
Vibration level	2.8	mm/s				
Noise level (1meter distance from mo	otor) 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	1R x 3C x 240mm²/2 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	-	-	_

REGAL

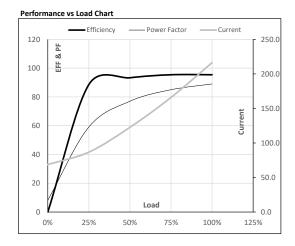




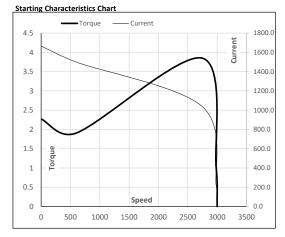
Model No. TCA1321A3141GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	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	132	175.0	216.3	2984	42.58	417.55	IE3	50	S1	1000	2.5544	1072

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	68.7	86.7	122.7	165.9	216.3	
Torque	Nm	0.0	104.0	208.2	312.7	417.6	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	88.6	93.3	95.4	95.4	
Power Factor	%	8.2	59.1	77.0	85.0	89.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2745 2984 3000 Speed r/min Current Α 1665.4 1498.9 1037.9 216.3 68.7 Torque pu



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

Issued By Issued Date

REGAL

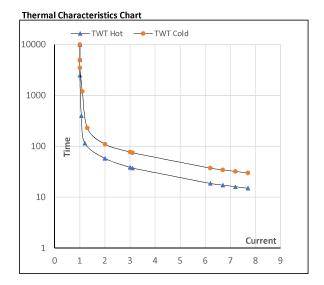




Model No. TCA1321A3141GACD01

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	132	175	216.3	2984	42.55	417.55	IE3	50	S1	1000	2.5544	1072

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

Issued By Issued Date

REGAL