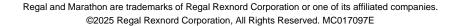
PRODUCT INFORMATION PACKET



Model No: TCA0903A3121GACD01
Catalog No: TCA0903A3121GACD01

TerraMAX® Cast Iron Motor, 120 HP, 3 Ph, 50 Hz, 415 V, 315M Frame









Nameplate Specifications

Phase	3	Output HP	120 Hp		
Output KW	90.0 kW	Voltage	415 V		
Speed	990 r/min	Service Factor	1		
Frame	315M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	94.9 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	162.9 A	Power Factor	0.81		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319		
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	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500892

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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



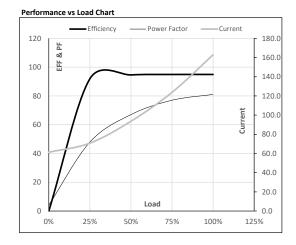




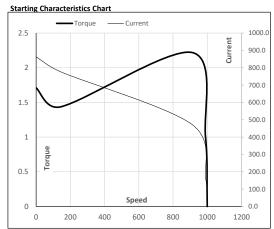
Model No. TCA0903A3121GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	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	90	120.0	162.9	990	88.05	863.45	IE3	50	S1	1000	3.9282	889

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	61.3	70.8	93.6	123.7	162.9	
Torque	Nm	0.0	214.2	429.4	645.8	863.5	
Speed	r/min	1000	998	995	993	990	
Efficiency	%	0.0	91.9	94.6	94.9	94.9	
Power Factor	%	4.1	47.9	67.0	77.0	81.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 143 911 990 1000 Speed r/min Current Α 863.3 777.0 473.2 162.9 61.3 Torque pu



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

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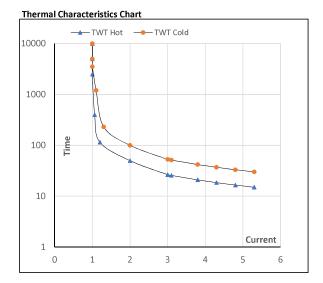




Model No. TCA0903A3121GACD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	90	120	162.9	990	87.99	863.45	IE3	50	S1	1000	3.9282	889

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 20 TWT Cold s 10000 100 53 41 36 32 30 Current 1 3 4.5 5 5.3 pu



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

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