PRODUCT INFORMATION PACKET



Model No: TCA2501A3121GACD01 Catalog No: TCA2501A3121GACD01

250.0 kW General Purpose Low Voltage IEC Motor, 3 phase, 3000 RPM, 415 V, 355M Frame, TEFC

Cast Iron IE3 Efficiency Motors





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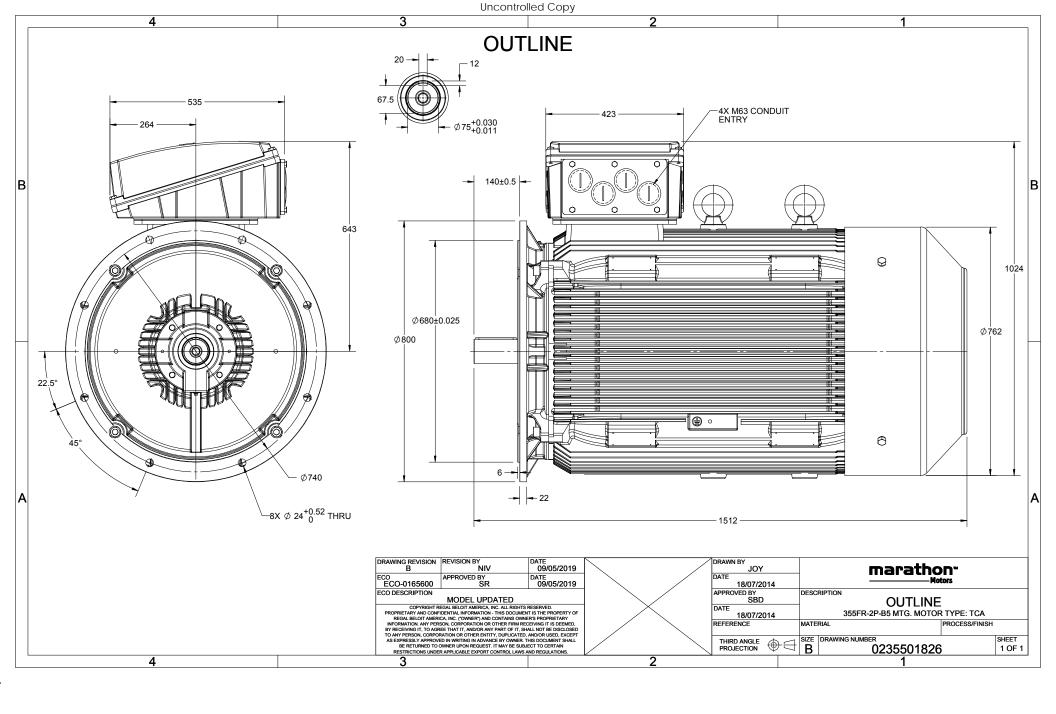
Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	415 V
Current	412.6 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 ℃	Drive End Bearing Size	6317
Opp Drive End Bearing Size	6317	UL	No
CSA	No	CE	Yes
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1512 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501826	Connection Drawing	8442000085

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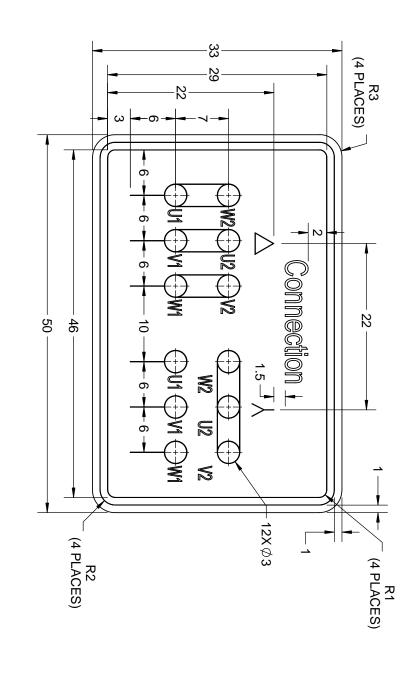
NEW DRAWING RELEASE DATE 13/01/2017 DATE 13/01/2017

±0.2	>6~30	LINEAR DIM
±0.1	>0~6	
RANCE	GEOMENTRIC TOLERANCE	GEOM

>30~120

±0.3

4 of 5



NOTES:

- $\omega \bowtie \neg$ 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 BY THE TABLE.

8WD.442.2017

THIRD ANGLE	REFERENCE	DATE 16/12/2016	APPROVED BY SBD	DATE 16/12/2016	DRAWN BY SN
SIZE DRAWING NUMBER 8442000085	MATERIAL		DESCRIPTION DIAGRAM-NA	Vedai peloit Ville	
SHEET 1 OF 1	PROCESS/FINISH	ָּ 	AMEDIATE	ilica, ilic.	5





Model No. TCA2501A3121GACD01

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	250	335	412.6	2984	799.36	IE3	-	95.8	95.8	94.6	0.88	0.85	0.77	7.3	2.1	3.5

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	355M	
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 resista	nce) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	n NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6317 C3 / 6317 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	1710	kį
Gross weight - approx.	1755	kį
Motor inertia	4.0729	kgm
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 90	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	
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 300mm²/4 x M63 x 1.5	
Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current \underline{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
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 Global IEC

 Standards
 1S 12615 : 2018

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