PRODUCT INFORMATION PACKET



Model No: TCA2204A3133GACD01 Catalog No: TCA2204A3133GACD01

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



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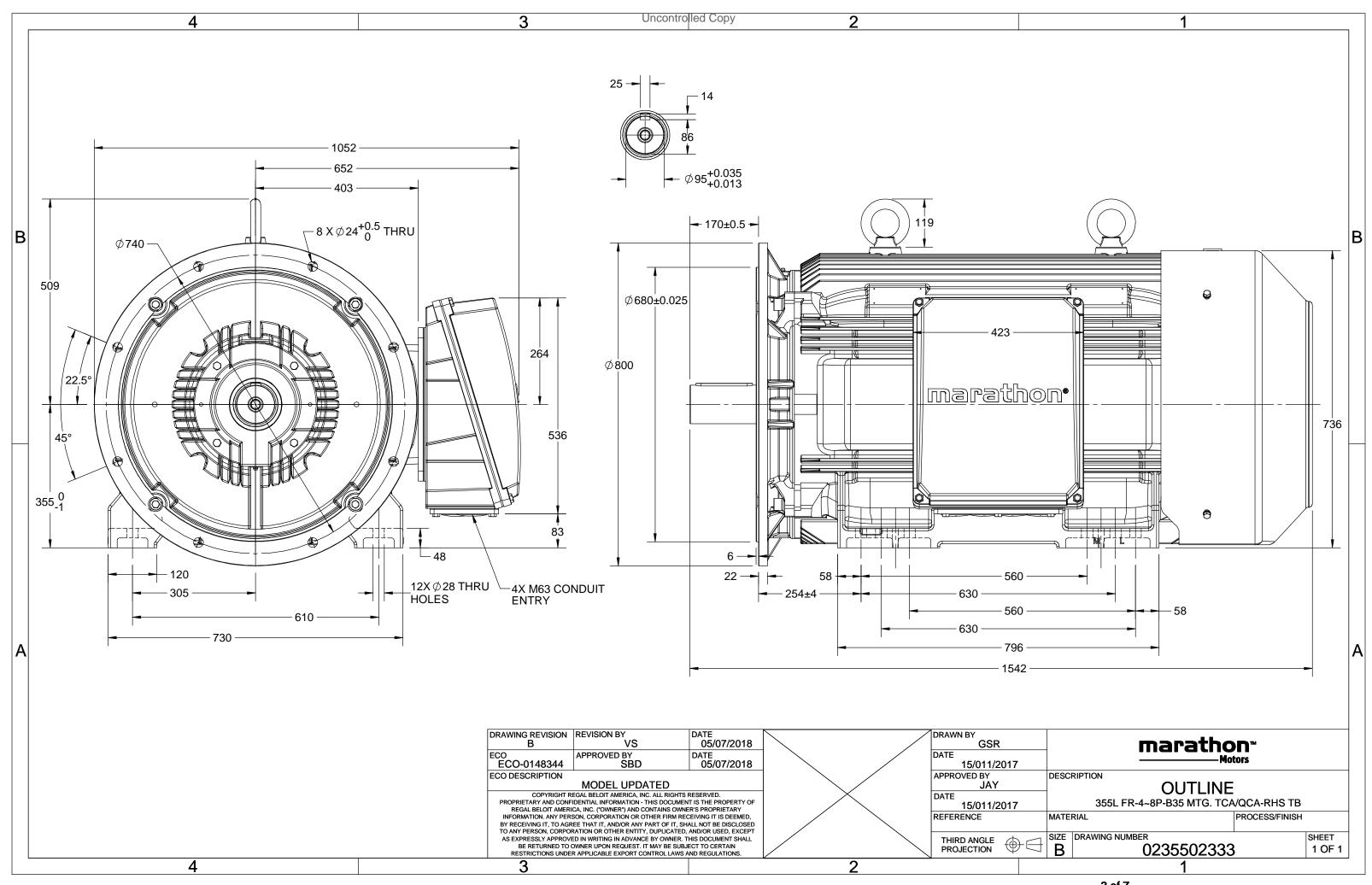
Nameplate Specifications

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
ficiency 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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0235502333	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





TerraMAX[®]

Model No. TCA2204A3133GACD01

U	Δ/Υ	f	Р	Р	- 1	n	Т	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	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 resis	tance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classificati	ion 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 B35	
Cooling method	IC 411	
Motor weight - approx.	2182	kg
Gross weight - approx.	2227	kg
Motor inertia	14.7210	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from motor)	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	RHS	
Maximum cable size/conduit size 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

 $T_{\rm K}/T_{\rm N}$ - 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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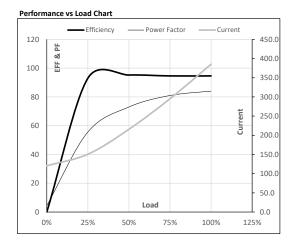




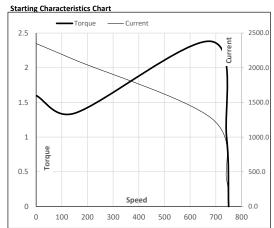
Model No. TCA2204A3133GACD01

Enclosure	U	Δ / Y	f	Р	Р	1	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	220	295.0	385.2	742	293.60	2879.25	IE3	50	S1	1000	14.721	2182

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



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



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

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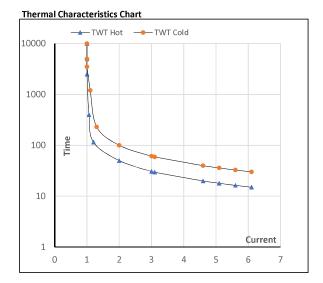




Model No. TCA2204A3133GACD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	T	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	2182

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR						
TWT Hot	S	10000	50	31	25	18	17	15						
TWT Cold	S	10000	100	61	50	37	34	30						
Current	pu	1	2	3	4	5	5.5	6.1						



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

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