PRODUCT INFORMATION PACKET



Model No: TCA3152A3111GACD01 Catalog No: TCA3152A3111GACD01 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 415 V, 355L Frame



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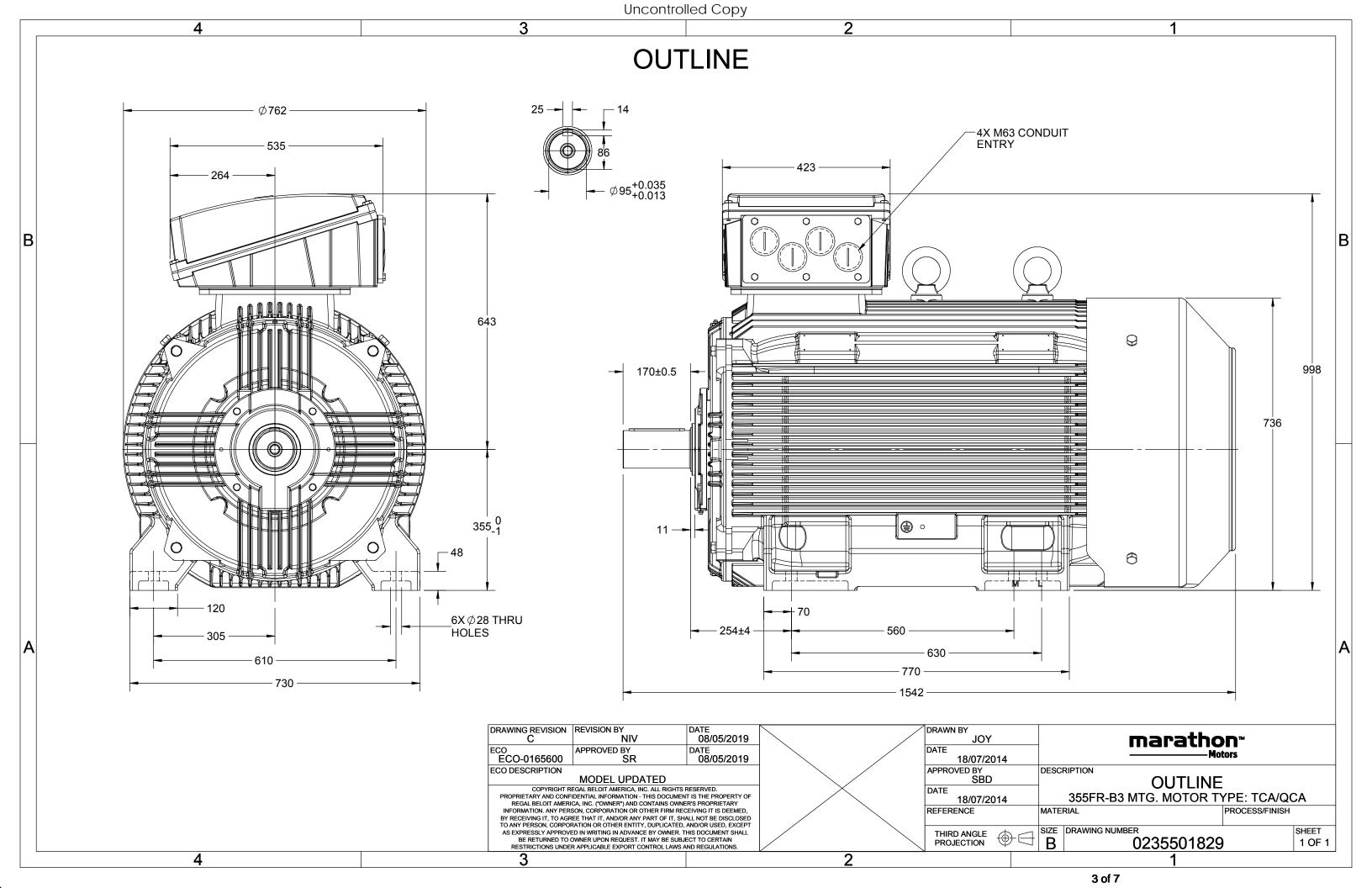
Nameplate Specifications

415 V
Factor 1
re Totally Enclosed Fan Cooled
cy 96 %
ncy 50 Hz
Factor 0.9
on Class F
ve End Bearing Size 6322
No
55
cy Class IE3
r

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
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	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501829

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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

GEOM	ENTRIC TOLE	RANCE
	>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. TCA3152A3111GACD01

U	Δ/Υ	f	Р	Р	I	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	315	425	507.2	1490	2031.21	IE3		96.0	96.0	96.1	0.90	0.88	0.84	7	2.0	2.5

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 resi	stance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classificat	tion NA	
Zone classification	n NA	
Gas group	NA	
Temperature class	s 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 B3	
Cooling method	IC 411	
Motor weight - approx.	1914	kg
Gross weight - approx.	1959	kg
Motor inertia	10.1755	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from m	otor) 82	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 300mm²/4 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 combined 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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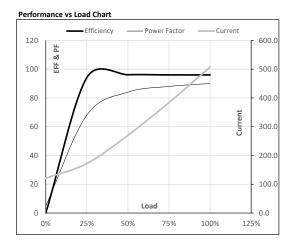




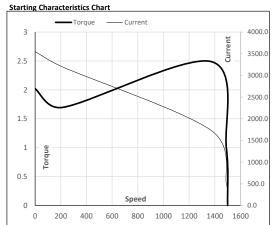
Model No. TCA3152A3111GACD01

Enclosure	U	Δ / Y	f	Р	Р	I	n	T	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	315	425	507.2	1490	207.13	2031.21	IE3	50	S1	1000	10.1755	1914

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 121.1 171.9 270.0 383.8 507.2 2031.2 Torque Nm 0.0 505.2 1012.0 1520.6 1500 1498 1493 Speed r/min 1495 1490 Efficiency % 0.0 94.2 96.1 96.0 96.0 Power Factor 5.0 68.1 84.0 88.0 90.0



Motor Speed Torque Data P-Up BD Rated NL Load Point 214 1371 1490 1500 0 Speed r/min А Current 3550.6 3195.5 1734.5 507.2 121.1 Torque pu



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

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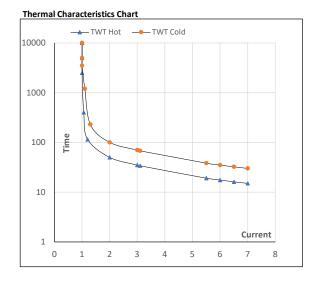




Model No. TCA3152A3111GACD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	315	425	507.2	1490	207.13	2031.21	IE3	50	S1	1000	10.1755	1914

Motor Speed Torque Data Load LR TWT Hot s 10000 50 35 18 15 TWT Cold s 10000 100 70 55 45 35 30 6 7___ Current pu 1 2 4



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

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