PRODUCT INFORMATION PACKET



Model No: TCA3152A3113GACD01 Catalog No: TCA3152A3113GACD01 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 415 V, 355L Frame



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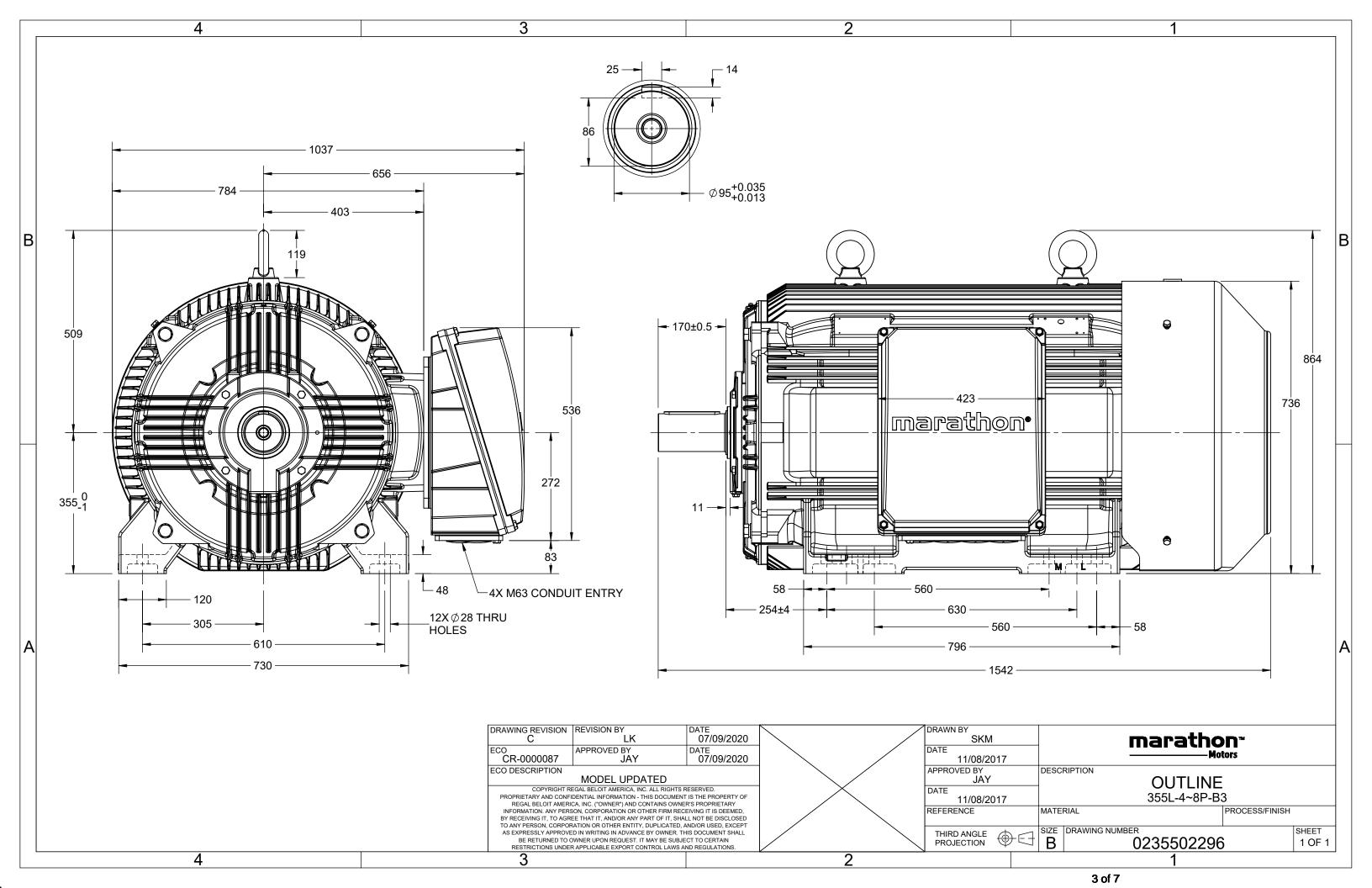
Nameplate Specifications

Phase	3	Output HP	425 Hp
Output KW	315.0 kW	Voltage	415 V
Speed	1490 r/min	Service Factor	1
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	507.2 A	Power Factor	0.9
Duty	S1	Insulation Class	F
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	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	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	0235502296	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

GEOM	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. TCA3152A3113GACD01

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	315	425	507.2	1490	2031.21	IE3		96.0	96.0	96.1	0.90	0.89	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 resis	tance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classificati	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	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	kgm²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from moto	r) 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	RHS	
Maximum cable size/conduit size 1F	R 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_K/T_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

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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^{*} Voltage, Frequency and combined variation are as per IEC60034-1

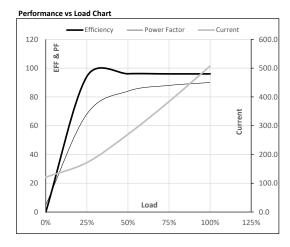




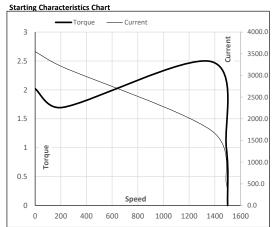
Model No. TCA3152A3113GACD01

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	315	425	507.2	1490	207.13	2031.21	IE3	50	S1	1000	10.1755	1914
	413		30	313	423	307.2	1430	207.13	2031.21	iLJ	50	31	1000	10.1755	-

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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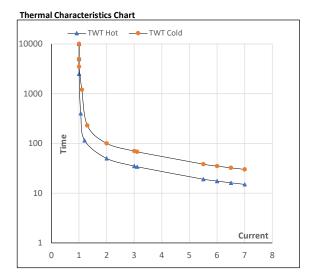




Model No. TCA3152A3113GACD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	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	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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