PRODUCT INFORMATION PACKET



Model No: SCA0374A3113GAAD01 Catalog No: SCA0374A3113GAAD01

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 280S Frame, TEFC





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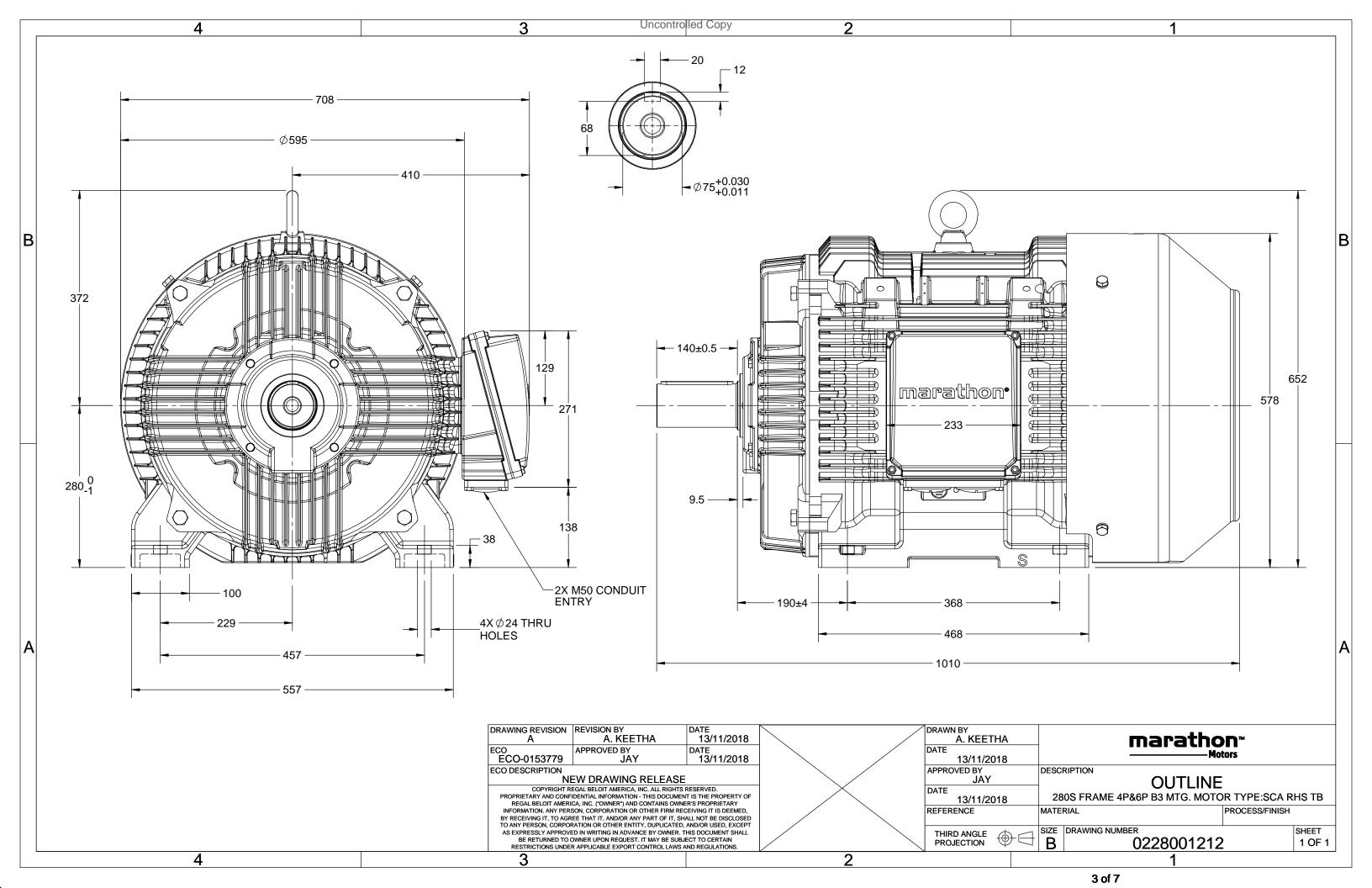
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	77.3 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	90.3 %	Power Factor	0.7371
Duty	S1	Insulation Class	F
Frame	280\$	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1010 mm	Frame Length	499 mm	
Shaft Diameter	75 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	RHS			
Connection Drawing	8442000085	Outline Drawing	0228001212	

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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







U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	oad	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	37	50	78.0	738	482.60	IE2	-	90.3	90.3	92.7	0.74	0.67	0.54	4.6	1.9	2.4

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	280S	
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 resistance	e) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6317 C3 / 6317 C3	
Lubrication method	Regreaseable	
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.	692	kg
Gross weight - approx.	727	kg
Motor inertia	3.2584	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	otor) 64	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	<u>-</u>	
Accessory - 2	-	
Accessory - 3	<u>-</u>	
Terminal box position	RHS	
Maximum cable size/conduit size	1R x 3C x 95mm²/2 x M50 x 1.5	
Auxiliary terminal box	Available on Request	

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 combine variation are as per IEC60034-1

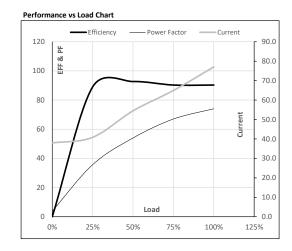




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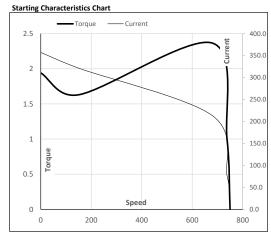
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	37	50	77.0	738	49.21	482.60	IE2	50	S1	1000	3.2584	692

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	37.9	40.8	54.5	64.9	77.0	
Torque	Nm	0.0	119.2	239.3	360.3	482.6	
Speed	r/min	750	747	744	741	738	
Efficiency	%	0.0	89.0	92.7	90.3	90.3	
Power Factor	%	3.8	35.7	54.0	67.0	74.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	679	738	750
Current	Α	357.2	321.4	213.8	77.0	37.9
Torque	pu	1.9	1.6	2.4	1	0



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

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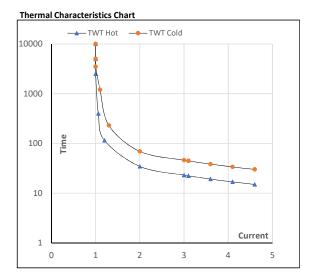




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	37	50	77.0	738	49.21	482.60	IE2	50	S1	1000	3.2584	692

Motor Speed Torque Data											
Load		FL	I_1	l ₂	I ₃	I ₄	I ₅	LR			
TWT Hot	S	10000	35	23	20	18	16	15			
TWT Cold	S	10000	69	46	40	37	32	30			
Current	pu	1	2	3	3.5	4	4.5	4.6			



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

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