PRODUCT INFORMATION PACKET



Model No: SCA0301A1141GAA001 Catalog No: SCA0301A1141GAA001

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC





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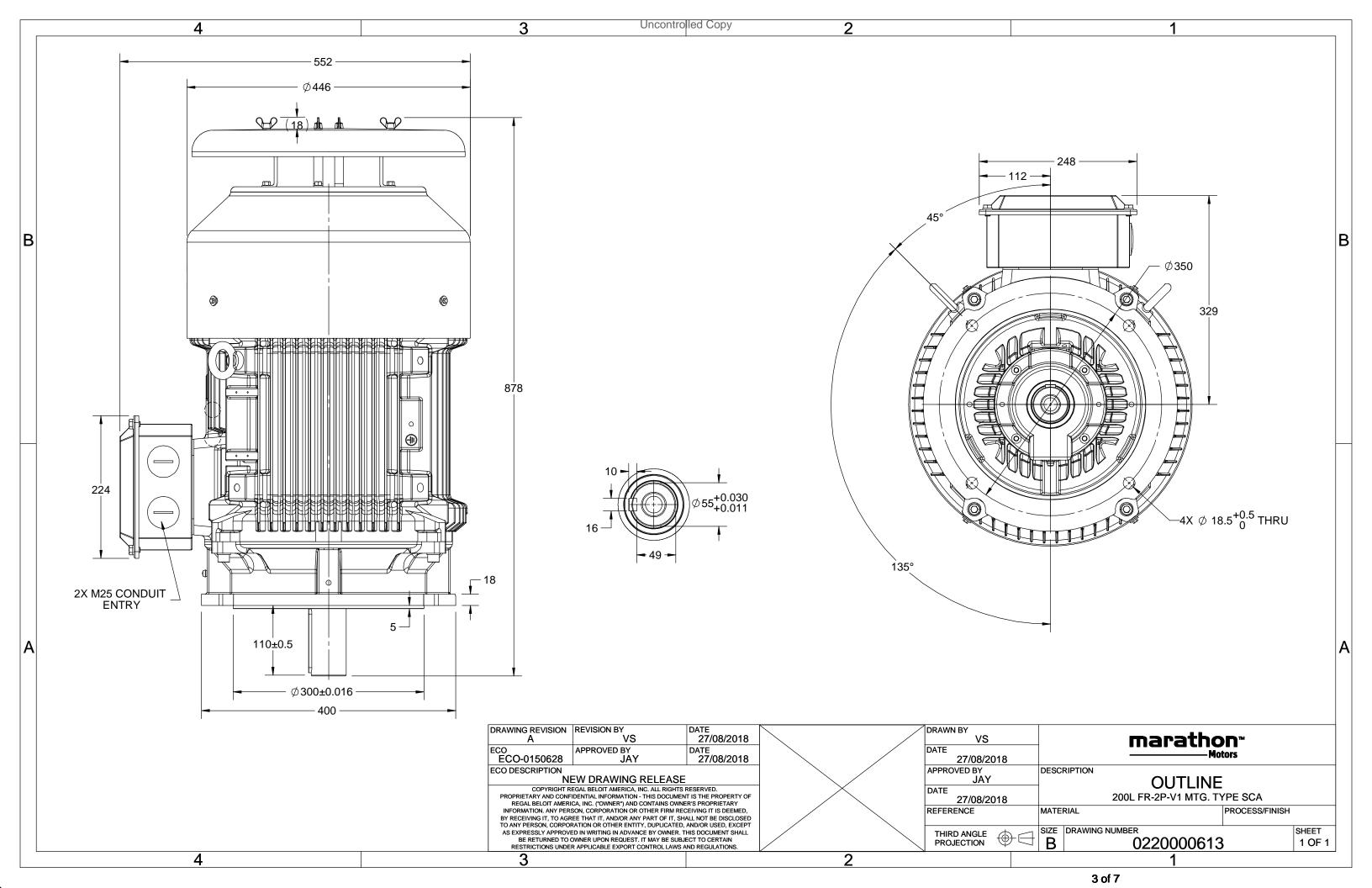
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	52.3 A	Speed	2953 rpm
Service Factor	1	Phase	3
Efficiency	92 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	878 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000613	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







Model No. SCA0301A1141GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	nt load	t	PI	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]
400	Δ	50	30	40	52.3	2953	96.47	IE2	-	92	92	91.5	0.9	0.88	0.81	6.3	1.9	3.0

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	200L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistan	ice) 80 [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	6312 C3 / 6212 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	272	kg
Gross weight - approx.	302	kg
Motor inertia	0.1687	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 77	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	25/12	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 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

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

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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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

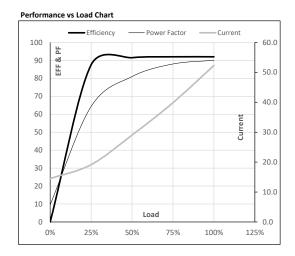




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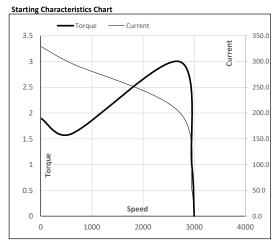
	Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 Δ 50 30 40 52.3 2953 9.84 96.47 IE2 40 S1 1000 0.1687 272		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
	TEFC	400	Δ	50	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	272

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 14.5 19.1 29.0 39.9 52.3 96.5 Torque Nm 0.0 23.8 47.8 72.0 Speed r/min 3000 2988 2977 2966 2953 Efficiency % 0.0 87.5 91.5 92.0 92.0 81.0 88.0 90.0 Power Factor 9.6 64.3



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2707	2953	3000	
Current	Α	329.5	296.5	202.2	52.3	14.5	
Torque	pu	1.9	1.6	3.0	1	0	



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

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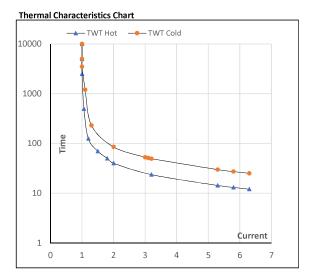




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	272

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l₃	I_4	l ₅	LR						
TWT Hot	s	10000	40	24	20	16	14	12						
TWT Cold	s	10000	51	50	40	32	28	25						
Current	pu	1	2	3	4	5	5.5	6.3						



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

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