PRODUCT INFORMATION PACKET



Model No: SCA0222A1131GAA001 Catalog No: SCA0222A1131GAA001

TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180L Frame, TEFC





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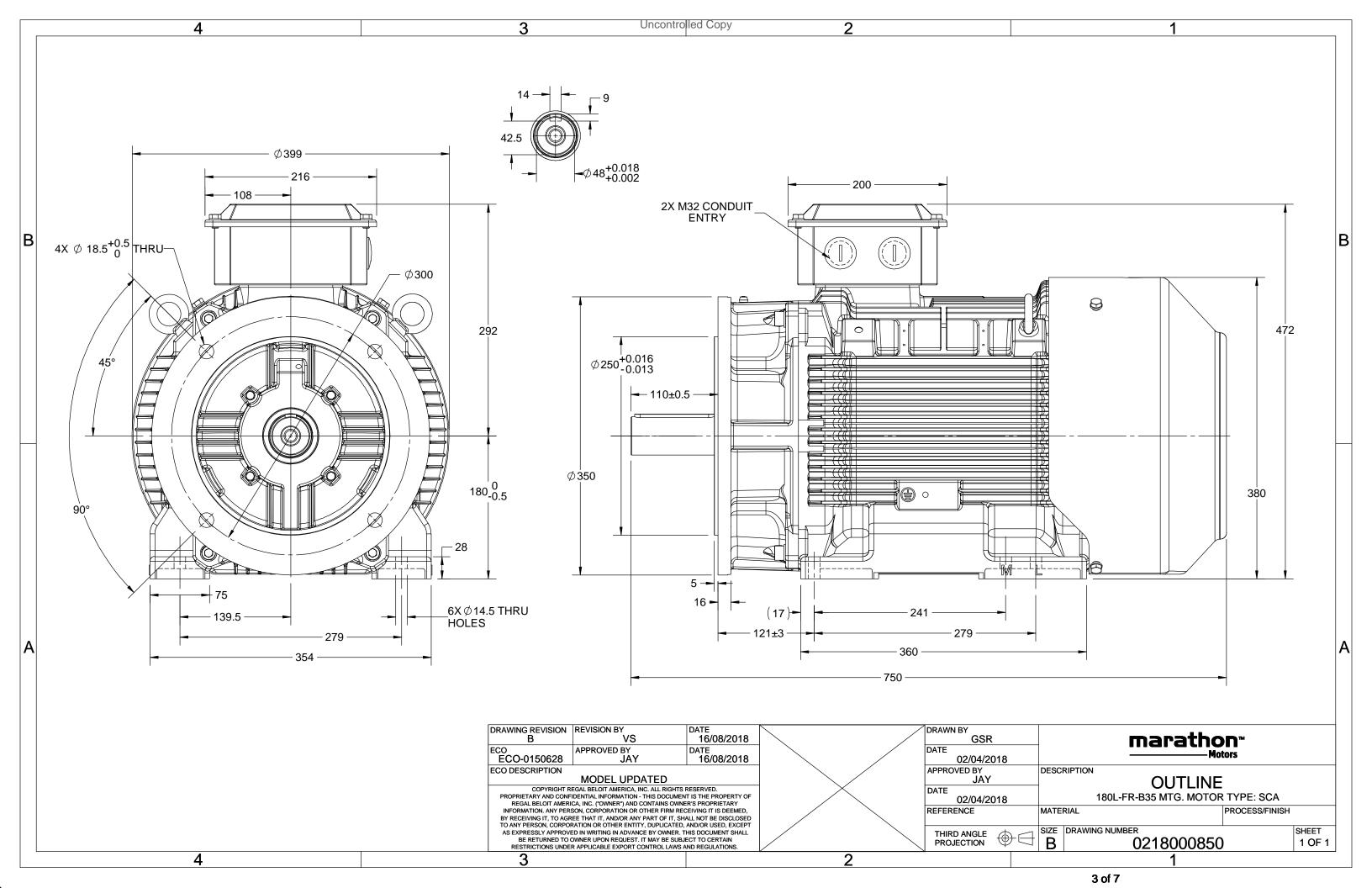
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	40.3 A	Speed	1471 rpm
Service Factor	1	Phase	3
Efficiency	91.6 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
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	4	Rotation	Bi-Directional	
Mounting	B35	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	750 mm	Frame Length	366 mm	
Shaft Diameter	48 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0218000850	

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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







Model No. SCA0222A1131GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	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]
400	Δ	50	22	30	40.3	1471	145.21	IE2	-	91.6	91.6	91.8	0.86	0.81	0.7	6.8	2.5	3.0

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	180L	
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 resistance)	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	6311-2Z / 6211-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	223	kg
Gross weight - approx.	243	kg
Motor inertia	0.1694	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 66	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/7	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 35mm ² /2 X M32 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	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

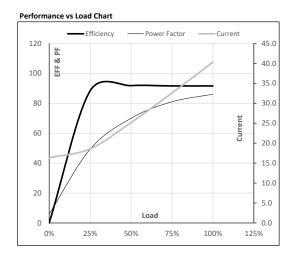




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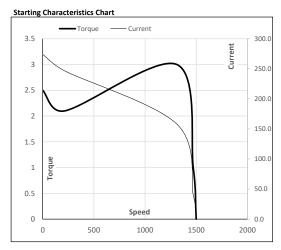
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	40.3	1471	14.81	145.21	IE2	40	S1	1000	0.1694	223

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	16.3	18.6	25.2	32.6	40.3	
Torque	Nm	0.0	35.8	71.9	108.3	145.2	
Speed	r/min	1500	1493	1486	1479	1471	
Efficiency	%	0.0	88.3	91.8	91.6	91.6	
Power Factor	%	5.9	49.3	70.0	81.0	86.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1311	1471	1500
Current	Α	274.1	246.7	158.1	40.3	16.3
Torque	pu	2.5	2.1	3.0	1	0



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

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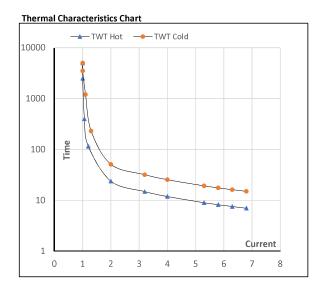




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ſ	Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
ſ	TEFC	400	Δ	50	22	30	40.3	1471	14.81	145.21	IE2	40	S1	1000	0.1694	223
ı																

Motor Speed Torque Data								
Load		FL	I_1	l ₂	I_3	I ₄	l ₅	LR
TWT Hot	S	10000	24	15	12	10	9	7
TWT Cold	S	10000	51	33	26	20	18	15
Current	pu	1	2	3	4	5	5.5	6.8



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

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