PRODUCT INFORMATION PACKET

Model No: SCA0221A1131GAA001 Catalog No: SCA0221A1131GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 180M Frame, TEFC



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Product Information Packet: Model No: SCA0221A1131GAA001, Catalog No:SCA0221A1131GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 180M Frame, TEFC

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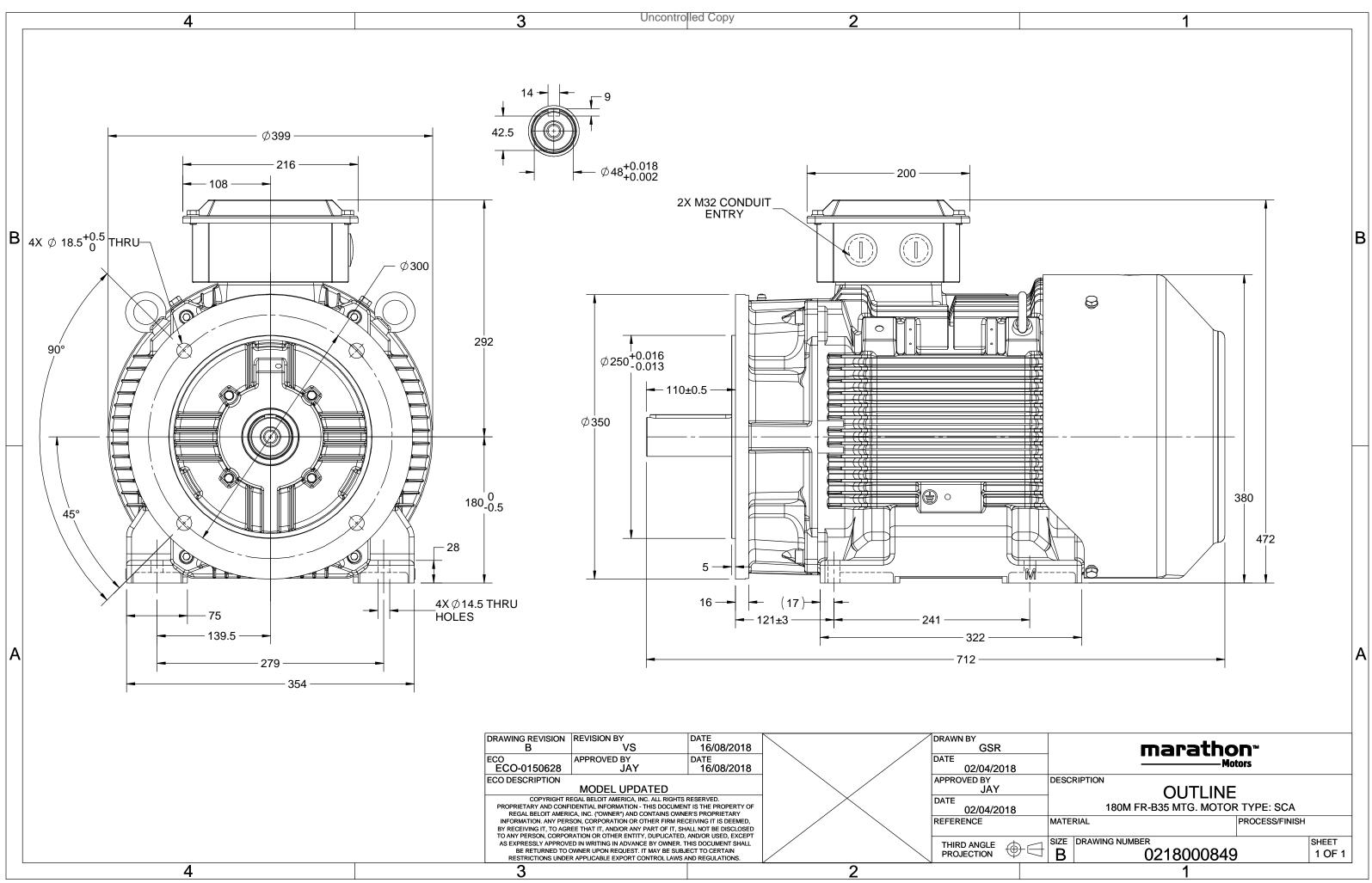
Nameplate Specifications

Output HP			22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	37.8 A	Speed	2946 rpm
Service Factor	1	Phase	3
Efficiency	91.3 %	Power Factor	0.92
Duty	S1 Insulation Class		F
_			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	712 mm	Frame Length	328 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000849

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TerraMAX[®]

Model No. SCA0221A1131GAA001

Service factor1.0No. of starts hot/cold/Equally spread2/3/4Insulation classFStarting methodDOLAmbient temperature-20 to +40°CType of couplingDirectTemperature rise (by resistance)80 [Class B]KLR withstand time (hot/cold)15/7Altitude above sea level1000meterDirection of rotationBi-directionalHazardous area classificationNAStandard rotationClockwise form DEZone classificationNAPaint shadeRAL 5014Gas groupNAAccessoriesClockwise form DETemperature classNAAccessory - 1PTC 150°CRotor typeAluminum Die castAccessory - 3-Bearing type6311-2Z / 6211-2ZTerminal box positionTOPLubrication methodGreased for lifeMaximum cable size/conduit size1R x 3C x 35mm²/2 X M32 x 1.5	U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
Motor typeSCADegree of protectionIP 55EnclosureTEFCMounting typeIM B35Frame MaterialCast IronCooling methodIC 411Frame MaterialCast IronCooling methodIC 411Frame Size180MMotor weight - approx.204DutyS1Gross weight - approx.224Voltage variation *± 10%Motor inertia0.0928Frequency variation *± 5%Load inertiaCustomer to ProvideCombined variation *10%Vibration level2.2DesignNNo. of starts hot/cold/Equally spread2/3/4Insulation classFStarting methodDOLAmbient temperature-20 to +40°CType of couplingDirectInsulation classFStandard rotationBi-directionalAutitude above sea level1000meterDirect on totationBi-directionalHazardous area classificationNAPaint shadeRAL 5014AccessoriesNAAccessory - 1PTC 150°CZone classificationNAAccessory - 3-Rotor typeAnti-friction ballAccessory - 3-Def NDE bearingG311-22 / 6211-22Terminal box positionTOPLubrication methodGreased for lifeMaximum cable size/conduit size1R x 3C x 35mm²/2 X M32 x 1.5	(V)	Conn	[Hz]	[kW]	[hp	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
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	DE / NI	DE bearii	ng			6311-2Z /	6211-2Z			Teri	minal b	ox posit	ion				TOP		
	Lubrica	tion me	thod			Greased f	or life			Max	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X N	132 x 1.5	
Type of grease NA Auxiliary terminal box Available on Request	Type o	f grease				NA				Aux	iliary te	erminal l	box			Avail	able on Requ	est	

 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

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

Technical dat	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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Model No. SCA0221A1131GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	37.8	2946	7.39	72.52	IE2	40	S1	1000	0.0928	204

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	10.2	13.8	21.2	29.3	37.8	
Torque	Nm	0.0	17.9	35.9	54.1	72.5	
Speed	r/min	3000	2987	2974	2960	2946	
Efficiency	%	0.0	88.5	91.8	91.3	91.3	
Power Factor	%	9.0	66.4	83.0	90.0	92.0	
Power Factor	%	9.0	66.4	83.0	90.0	92.0	_

P-Up

600

244.9

2.0

BD

2627

163.3

3.2

Rated

2946

37.8

1

NL

3000

10.2

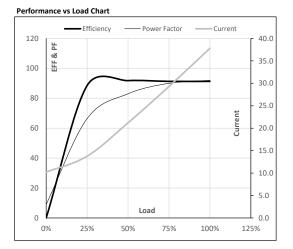
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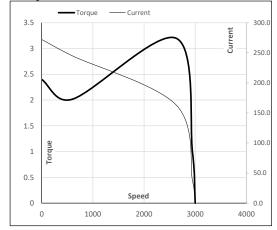
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272.2

2.4



Starting Characteristics Chart



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

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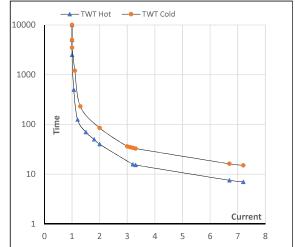
Model No. SCA0221A1131GAA001

Enclosure	U	Δ / Y	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	37.8	2946	7.39	72.52	IE2	40	S1	1000	0.0928	204

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	17	10	9	8	7
TWT Cold	s	10000	85	34	30	25	20	15
Current	pu	1	2	3	4	5	5.5	7.2

Thermal Characteristics Chart



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

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