PRODUCT INFORMATION PACKET

Model No: SCA18P2A1141GAA001 Catalog No: SCA18P2A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC



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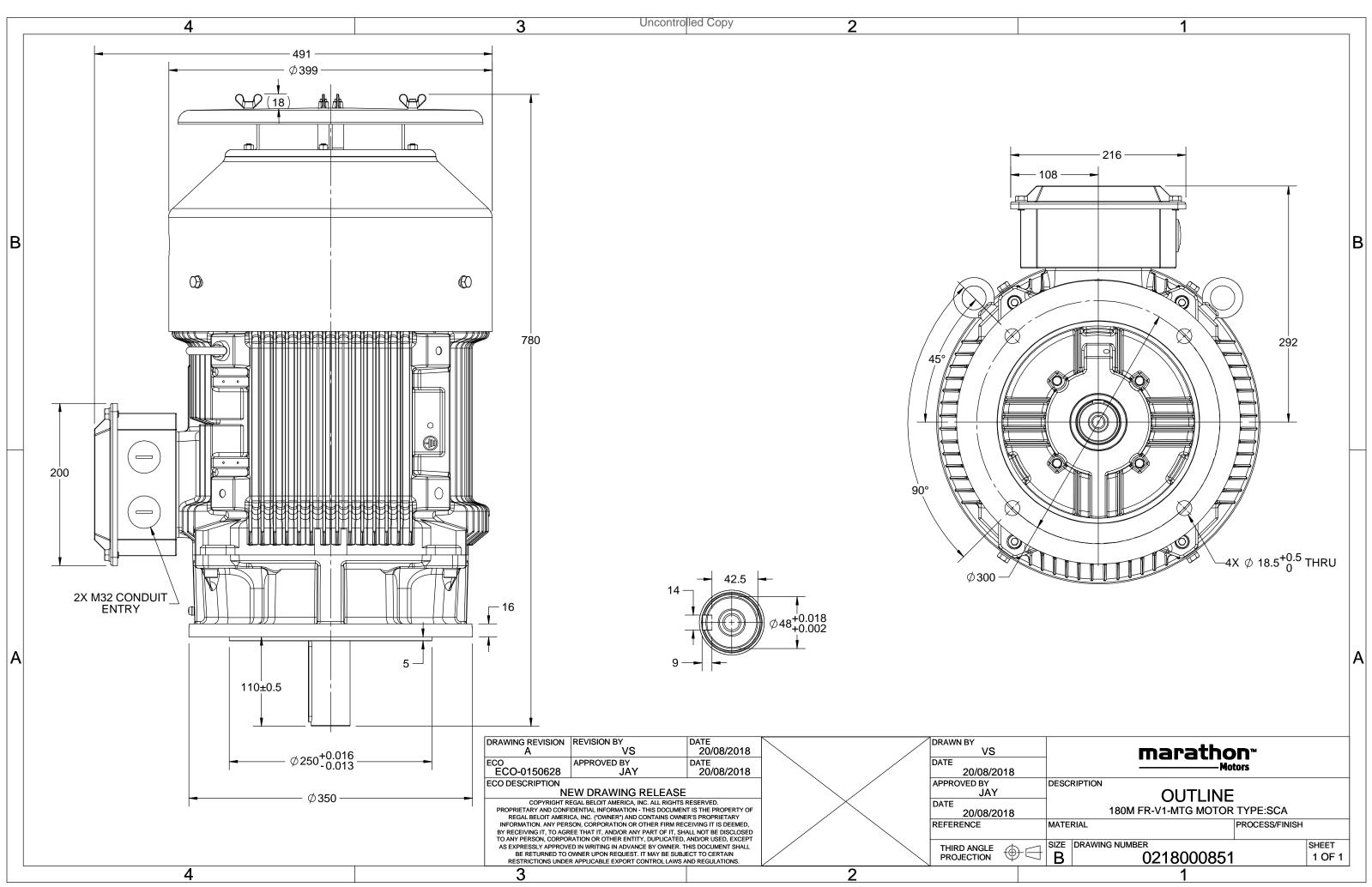
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	33.7 A	Speed	1469 rpm
Service Factor	1	Phase	3
Efficiency	91.2 %	Power Factor	0.87
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	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	780 mm	Frame Length	328 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000851	Connection Drawing	8442000085

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(V) Conn [Hz] 400 Δ 50 400 Δ 50 Motor type - - Enclosure - - Frame Material - - Frame size - - Duty Voltage variation * - Frequency variation * - - Combined variation class - - Aubient class - - Ambient temperature - - Temperature rise (by respective) - - Altitude above sea leave - - Hazardous area classification - -	[kW] 18.5	[hp] 25	[A] 33.7 SCA TEFC Cast Iro 180M \$1 ± 10% ± 5% 10%		[Nm] 121.22	Class IE2	Mou Coo Mot	unting t ling me		91.7 91.7	FL 0.87	3/4FL 0.83	1/2FL 0.73	[pu] 6.2 IP 55 IM V1	[pu] 2.2	[pu] 2.7
Motor type Enclosure Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levy Hazardous area classif		25	SCA TEFC Cast Iro 180M S1 ± 10% ± 5%	on	121.22	IE2	Mou Coo Mot	ree of p unting t ling me	protectio ype thod	on	0.87	0.83	0.73	IP 55 IM V1	2.2	2.7
Enclosure Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levy Hazardous area classif			TEFC Cast Iro 180M S1 ± 10% ± 5%				Mou Coo Mot	unting t ling me	ype thod					IM V1		
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Frame Material Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levy Hazardous area classif			Cast Iro 180M \$1 ± 10% ± 5%				Coo Mot	ling me	thod							
Frame size Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levy Hazardous area classif			180M S1 ± 10% ± 5%				Mot	•		rov						
Duty Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levy Hazardous area classif			S1 ± 10% ± 5%					tor weig	ght - app					IC 411		
Voltage variation * Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levi Hazardous area classif			± 10% ± 5%				Gros							203		kg
Frequency variation * Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea levi Hazardous area classif			± 5%						ht - app	rox.				223 0.1433		kg
Combined variation * Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea lev Hazardous area classif								tor iner					Curt			kgm ²
Design Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea lev Hazardous area classif			10%					d inertia					Custo	omer to Provide		
Service factor Insulation class Ambient temperature Temperature rise (by r Altitude above sea lev Hazardous area classif								ration le						2.2		mm/s
Insulation class Ambient temperature Temperature rise (by r Altitude above sea lev Hazardous area classif			N						•	er distan)	66		dB(A)
Ambient temperature Temperature rise (by r Altitude above sea lev Hazardous area classif			1.0							old/Equ	ally spre	ad		2/3/4		
Temperature rise (by r Altitude above sea lev Hazardous area classif			F					rting me						DOL		
Altitude above sea leve Hazardous area classif			-20 to +4			°C		e of cou						Direct		
Hazardous area classif		e) 8	80 [Class	-		K				(hot/col	d)			20/10		S
			1000			meter			f rotatio	n			-	Bi-directional		
Zone classifica			NA					ndard ro					Cloc	ckwise form DE		
	tion		NA					nt shade						RAL 5014		
Gas group			NA				Acce	essories								
Temperature o	:lass		NA						essory -					PTC 150°C		
Rotor type			minum Di						essory -					-		
Bearing type			nti-frictior						essory -					-		
DE / NDE bearing			1-2Z / 62						ox positi					TOP		
Lubrication method		Gr	reased for	r life						e/cond	uit size	1R		35mm²/2 X M32		
Type of grease			NA				Auxi	iliary te	rminal b	хох			Avail	able on Reques	t	

 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 data	a are subject to change	e. There may be disci	repancies 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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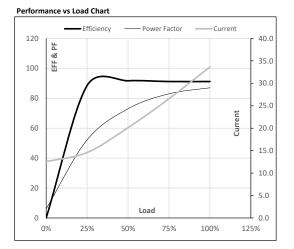


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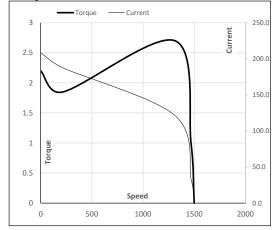
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	203

Motor Load Data

A 12.5	14.0				
	14.6	20.1	26.6	33.7	
m 0.0	29.8	59.9	90.4	121.2	
in 1500	1493	1485	1477	1469	
% 0.0	88.5	91.7	91.2	91.2	
% 6.1	52.2	73.0	83.0	87.0	
	in 1500 % 0.0	in 1500 1493 % 0.0 88.5	in 1500 1493 1485 % 0.0 88.5 91.7	in 1500 1493 1485 1477 % 0.0 88.5 91.7 91.2	in 1500 1493 1485 1477 1469 % 0.0 88.5 91.7 91.2 91.2



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 214 1313 1469 1500 Current А 208.6 187.8 121.3 33.7 12.5 0 Torque ри 2.2 1.8 2.7 1

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

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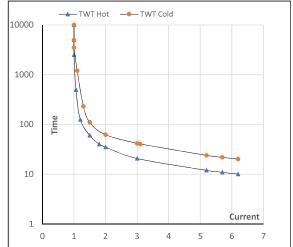
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	33.7	1469	12.36	121.22	IE2	40	S1	1000	0.1433	203

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	21	18	14	11	10
TWT Cold	s	10000	62	41	36	30	22	20
Current	pu	1	2	3	4	5	5.5	6.2

Thermal Characteristics Chart



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

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