PRODUCT INFORMATION PACKET



Model No: SCA18P3A4141GAA001 Catalog No: SCA18P3A4141GAA001

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 200L Frame, TEFC





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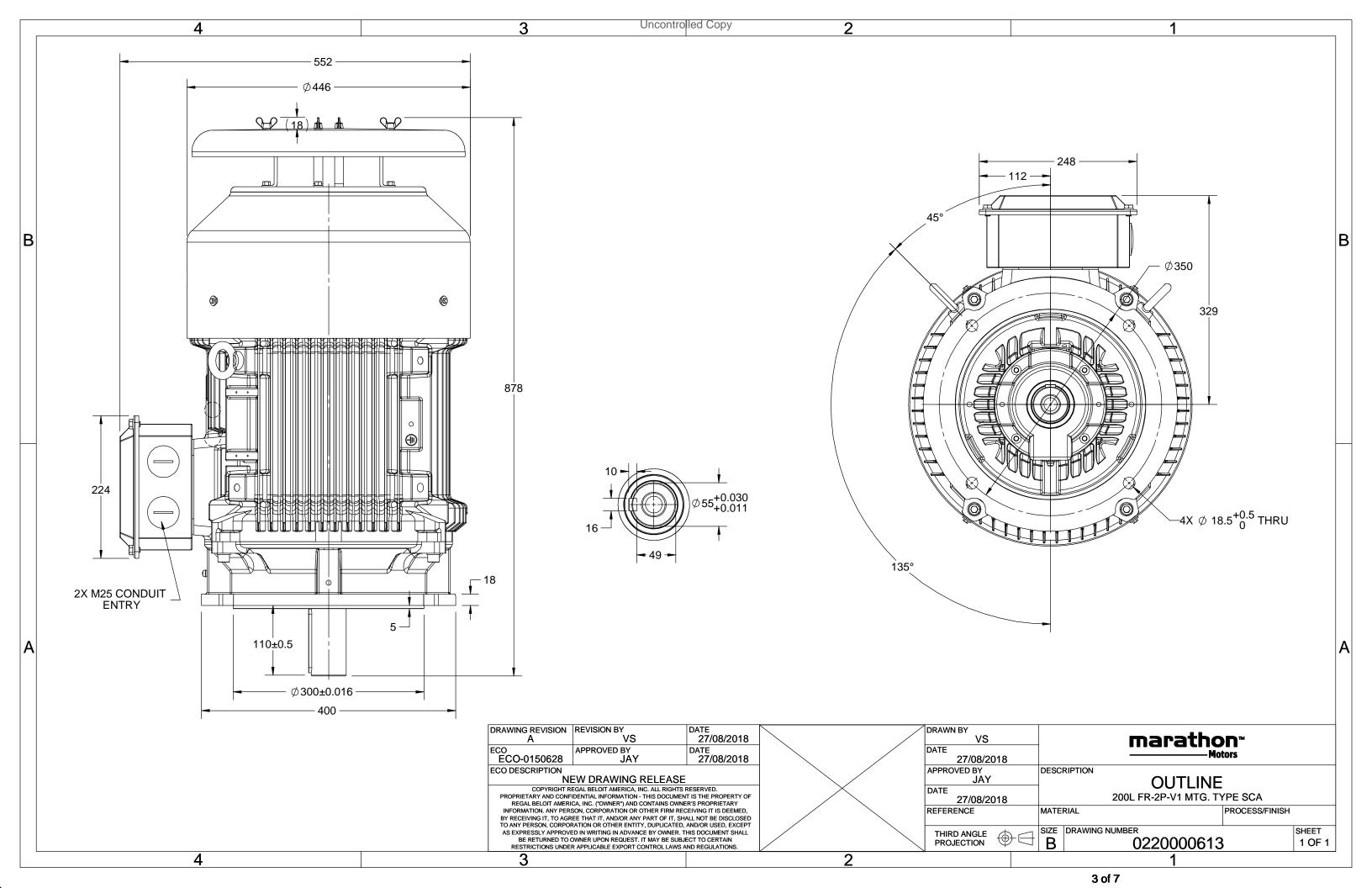
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	37.5 A	Speed	977 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.83
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
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	6	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaftdown	
Drive End Bearing	С3	Opp Drive End Bearing	C3	
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			
Connection Drawing	8442000085	Outline Drawing	0220000613	

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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. SCA18P3A4141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	l	PF	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]
380/660	Δ	50	18.5	25	37.5	977	182.36	IE2	-	90.4	90.4	90.9	0.83	0.8	0.7	5.1	1.7	2.1

Motor type	SCA		Degree of
Enclosure	TEFC		Mounting
Frame Material	Cast Iron		Cooling me
Frame size	200L		Motor wei
Duty	S1		Gross weig
Voltage variation *	± 10%		Motor iner
Frequency variation *	± 5%		Load inerti
Combined variation *	10%		Vibration I
Design	N		Noise level
Service factor	1.0		No. of star
Insulation class	F		Starting m
Ambient temperature	-20 to +40	°C	Type of co
Temperature rise (by resistan	ce) 80 [Class B]	K	LR withsta
Altitude above sea level	1000	meter	Direction o
Hazardous area classification	NA		Standard r
Zone classification	NA		Paint shad
Gas group	NA		Accessorie
Temperature class	NA		Acc
Rotor type	Aluminum Die cast		Acc
Bearing type	Anti-friction ball		Acc
DE / NDE bearing	6312 C3 / 6212 C3		Terminal b
Lubrication method	Regreasable		Maximum
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary te

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	263	kg
Gross weight - approx.	293	kg
Motor inertia	0.3254	kgm^2
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 65	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	30/15	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
	1R x 3C x 50mm ² /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_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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



 $[\]ensuremath{^{*}}$ Voltage, Frequency and combine variation are as per IEC60034-1

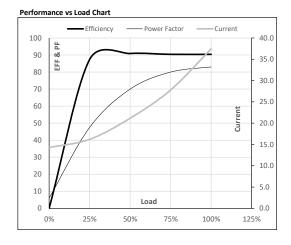




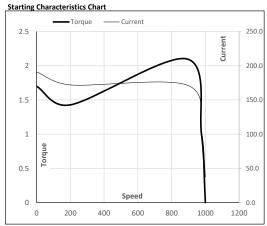
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	18.5	25	37.5	977	18.60	182.36	IE2	40	S1	1000	0.3254	263

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	14.3	16.2	21.2	27.8	37.5	
Torque	Nm	0.0	44.8	90.0	135.8	182.4	
Speed	r/min	1000	995	989	983	977	
Efficiency	%	0.0	87.4	90.9	90.4	90.4	
Power Factor	%	6.0	47.5	70.0	80.0	83.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	889	977	1000	
Current	Α	191.1	172.0	104.2	37.5	14.3	
Torque	pu	1.7	1.4	2.1	1	0	



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

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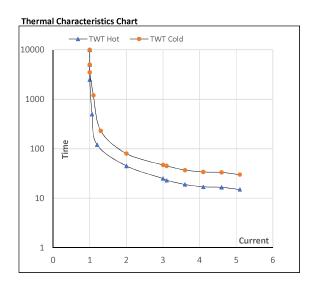




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/66	50 Δ	50	18.5	25	37.5	977	18.60	182.36	IE2	40	S1	1000	0.3254	263

Motor Speed Torque Data								
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	45	25	18	17	16	15
TWT Cold	s	10000	80	47	36	33	32	30
Current	pu	1	2	3	4	4.5	5	5.1



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

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