PRODUCT INFORMATION PACKET



Model No: SCA0111A4171GAA001 Catalog No: SCA0111A4171GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 160M Frame, TEFC



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Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	21.1 A	Speed	2940 rpm
Service Factor	1	Phase	3
Efficiency 89.4 %		Power Factor	0.89
Duty \$1		Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	2	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216001059	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.

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U	Δ/Υ	f	Р	Р	ı	n	T	IE	9	% EFF a	t load	t	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	11	15	21.0	2940	35.7	IE2	-	89.4	89.4	88.2	0.89	0.89	0.85	7.5	2.4	2.9

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	160M		Motor weight - approx.	117	kg
Duty	S1		Gross weight - approx.	137	kg
Voltage variation *	± 10%		Motor inertia	0.0430	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	N		Noise level (1meter distance from mot	or) 74	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	6/10	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6309-2Z / 6209-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 35mm ² /2 X M32 x 1.5	5
Type of grease	NA		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

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

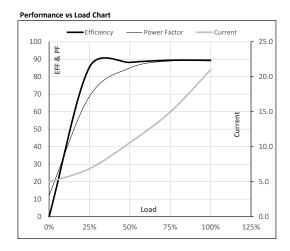




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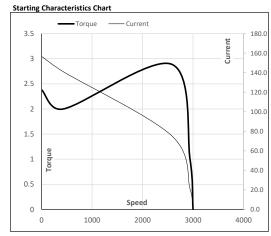
Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	11	15	21.0	2940	3.64	35.70	IE2	40	S1	1000	0.0430	117

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	4.9	6.9	10.6	15.0	21.0	
Torque	Nm	0.0	8.9	18.0	27.2	35.7	
Speed	r/min	3000	2983	2967	2949	2940	
Efficiency	%	0.0	85.5	88.2	89.4	89.4	
Power Factor	%	12.2	68.8	85.0	89.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	429	2576	2940	3000	
Current	Α	156.7	141.0	75.5	21.0	4.9	
Torque	pu	2.4	2.0	2.9	1	0	



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

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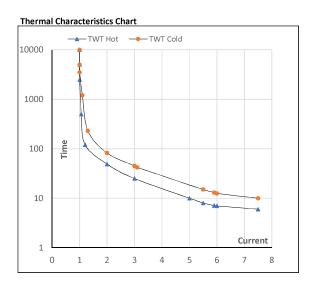




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/66	50 Δ	50	11	15	21	2940	3.64	35.70	IE2	40	S1	1000	0.0430	117

Motor Speed Torque Data								
Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	49	25	15	10	8	6
TWT Cold	s	10000	82	45	44	42	15	10
Current	pu	1	2	3	4	5	5.5	7.5



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

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