PRODUCT INFORMATION PACKET



Model No: SCA2003A3143GAAD01 Catalog No: SCA2003A3143GAAD01

200kW, General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, 415V, B14A, 50Hz, 95.0%, 355M Frame, TEFC

Cast Iron IE2 Efficiency Motors





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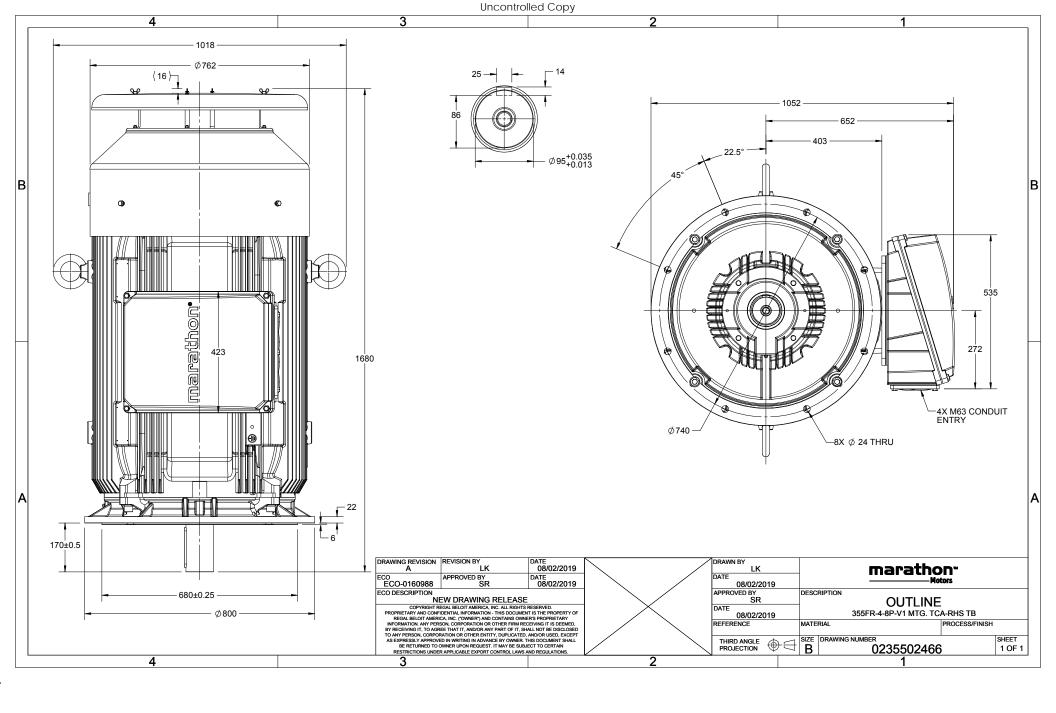
Nameplate Specifications

Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	415 V
Current	344.4 A	Speed	991 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.85
Duty	S 1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6322
Opp Drive End Bearing Size	6322	UL	No
CSA	No	CE	Yes
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1680 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	SIDE		
Connection Drawing	8442000085	Outline Drawing	0235502466

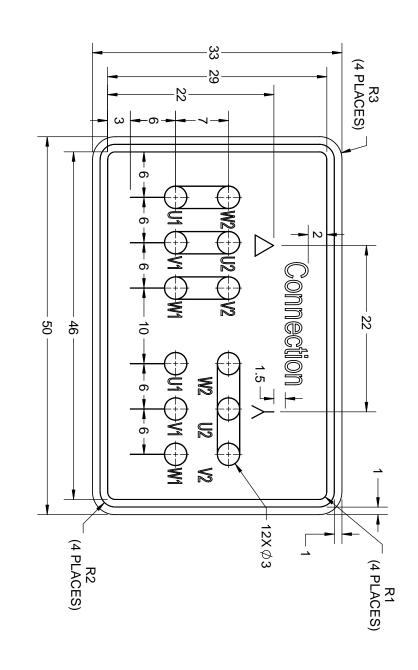
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NEW DRAWING RELEASE

DATE 13/01/2017 DATE 13/01/2017

GEOM	GEOMENTRIC TOLERANCE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- $\omega \bowtie \neg$
- 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 BY THE TABLE.

8WD.442.2017

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THIRD ANGLE	REFERENCE	DATE 16/12/2016	APPROVED BY SBD	DATE 16/12/2016	DRAWN BY SN
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Model No. SCA2003A3143GAAD01

U	Δ / Y	f	Р	Р	1	n	T	IE	9	6 EFF a	t load		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]
415	Δ	50	200	270	344.4	991	1941.2	IE2	-	95.0	95.0	95.8	0.85	0.82	0.73	5.5	1.9	2.4

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355M		Motor weight - approx.	1726	kg
Duty	S1		Gross weight - approx.	1771	kg
Voltage variation *	± 10%		Motor inertia	9.9148	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from mot	or) 70	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 +50	°C	Type of coupling	Direct	
Temperature rise (by resistance	e) 70 [Class B]	K	LR withstand time (hot/cold)	15/30	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	6322 C3 / 6322 C3		Terminal box position	RHS	
Lubrication method	Regreasable		Maximum cable size/conduit size	R x 3C x 300mm ² /4 x M63 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		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

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

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	-	-	IS 12615 : 2018	-	-	-

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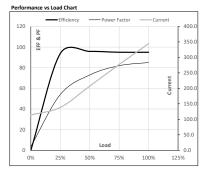




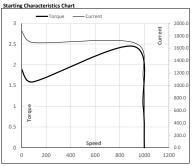
Model No. SCA2003A3143GAAD01

				r		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 415	Δ	50	200	270	344.4	991	197.95	1941.18	IE2	50	S1	1000	9.9148	1726

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	113.9	138.3	207.1	277.3	344.4	
Torque	Nm	0.0	481.8	965.8	1452.1	1941.2	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	93.8	95.8	95.0	95.0	
Power Factor	%	3.6	54.0	73.0	82.0	85.0	



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	912	991	1000
Current	Α	1878.6	1690.7	1124.1	344.4	113.9
orque	nu	1.9	1.6	2.4	1	0



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

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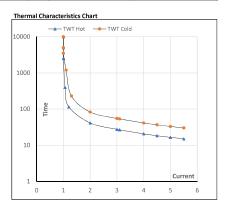




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Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	200	270	344.4	991	197.95	1941.18	IE2	50	S1	1000	9.9148	1726

Motor Speed	Motor Speed Torque Data											
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR				
TWT Hot	s	10000	41	28	21	18	17	15				
TWT Cold	s	10000	83	55	41	37	33	30				
Current	pu	1	2	3	4	4.5	5	5.5				



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

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