PRODUCT INFORMATION PACKET



Model No: SCA0371A3141GAAD01 Catalog No: SCA0371A3141GAAD01

37kW, General Purpose Low Voltage IEC Motor, 3 phase, 2 Pole, 415V, B35, 50Hz, 92.5%, 200L Frame, TEFC

Cast Iron IE2 Efficiency Motors





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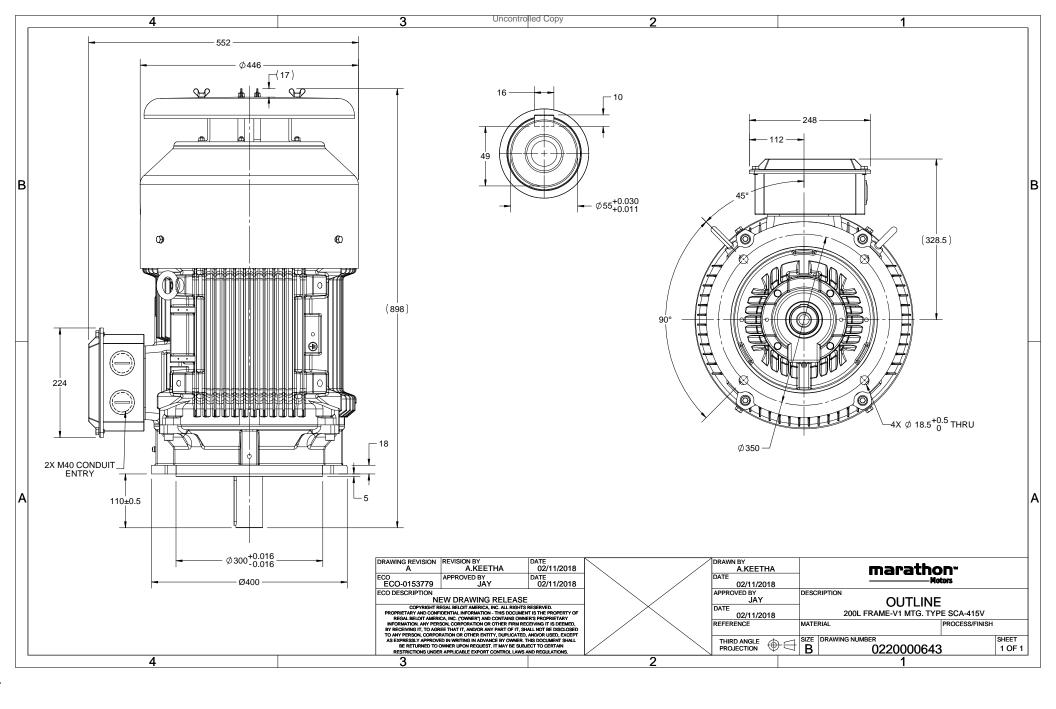
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	61.7 A	Speed	2955 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.90
Duty	S 1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	50 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6212	UL	No
CSA	No	CE	Yes
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	898 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0220000643

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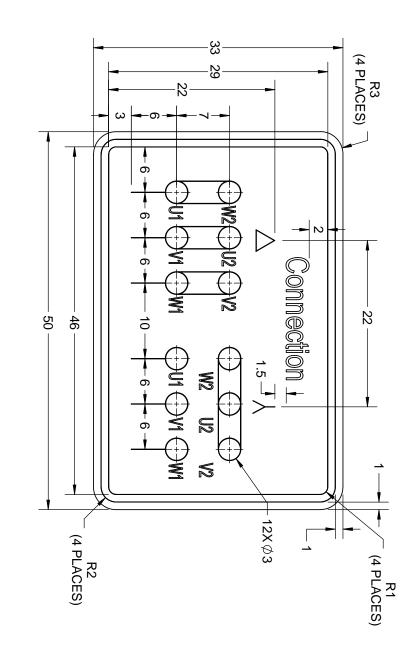
ECO-0116390 ECO DESCRIPTION DATE 13/01/2017 DATE 13/01/2017

LINEAR DIM NEW DRAWING RELEASE GEOMENTRIC TOLERANCE >6~30 ×0~6 ±0.2 ±0.1

>30~120

±0.3

4 of 7



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

THIRD ANGLE	REFERENCE	DATE 16/12/2016	APPROVED BY SBD	DATE 16/12/2016	DRAWN BY SN
A DRAWING NUMBER 8442000085	MATERIAL		DESCRIPTION CONN DIAGRAM-NA	Menale Negal Deloit Villelle	
SHEET 1 OF 1	PROCESS/FINISH	ָּרָ - רַ	AMEDI ATE	filea, iiie.	



Terra MAX[®]

Model No. SCA0371A3141GAAD01

U	Δ/Y	f	Р	Р	1	n	Т	IE	9	6 EFF a	tload	i	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	37	50	61.7	2955	120.51	IE2	-	92.5	92.5	92.2	0.90	0.88	0.81	6.1	2.1	3.1

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	200L		Motor weight - approx.	295	kg
Duty	S1		Gross weight - approx.	325	kg
Voltage variation *	± 10%		Motor inertia	0.1975	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 motor	or) 82	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 resista	ance) 70 [Class B]	K	LR withstand time (hot/cold)	12/25	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classificatio	n 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	6312 C3 / 6212 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	R x 3C x 50mm ² /2 x M40 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		Auxiliary terminal box	NA	

 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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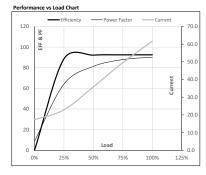




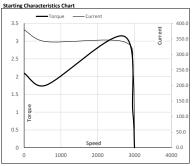
Model No. SCA0371A3141GAAD01

Enclosure	U (V)	Δ/Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m²]	Weight [kg]
TEFC	415	Δ	50	37	50	61.7	2955	12.29	120.51	IE2	50	\$1	1000	0.1975	295

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.2	22.8	35.9	49.5	61.7	
Torque	Nm	0.0	29.8	59.8	90.0	120.5	
Speed	r/min	3000	2989	2978	2967	2955	
Efficiency	%	0.0	88.6	92.2	92.5	92.5	
Power Factor	%	8.8	64.2	81.3	87.9	90.2	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2706	2955	3000	
Current	Α	378.9	341.0	252.4	61.7	17.2	
-		2.4	1.0	2.4			



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

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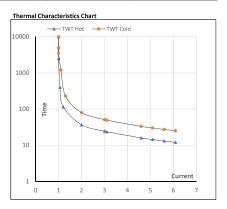




Model No. SCA0371A3141GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	l l	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	37	50	61.7	2955	12.29	120.51	IE2	50	S1	1000	0.1975	295

Motor Speed	Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR					
TWT Hot	s	10000	37	24	20	15	14	12					
TWT Cold	s	10000	80	51	45	30	28	25					
Current	pu	1	2	3	4	5	5.5	6.1					



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

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