PRODUCT INFORMATION PACKET

marathon® Motors

Model No: SCAP752A1141GAA001
Catalog No: SCAP752A1141GAA001
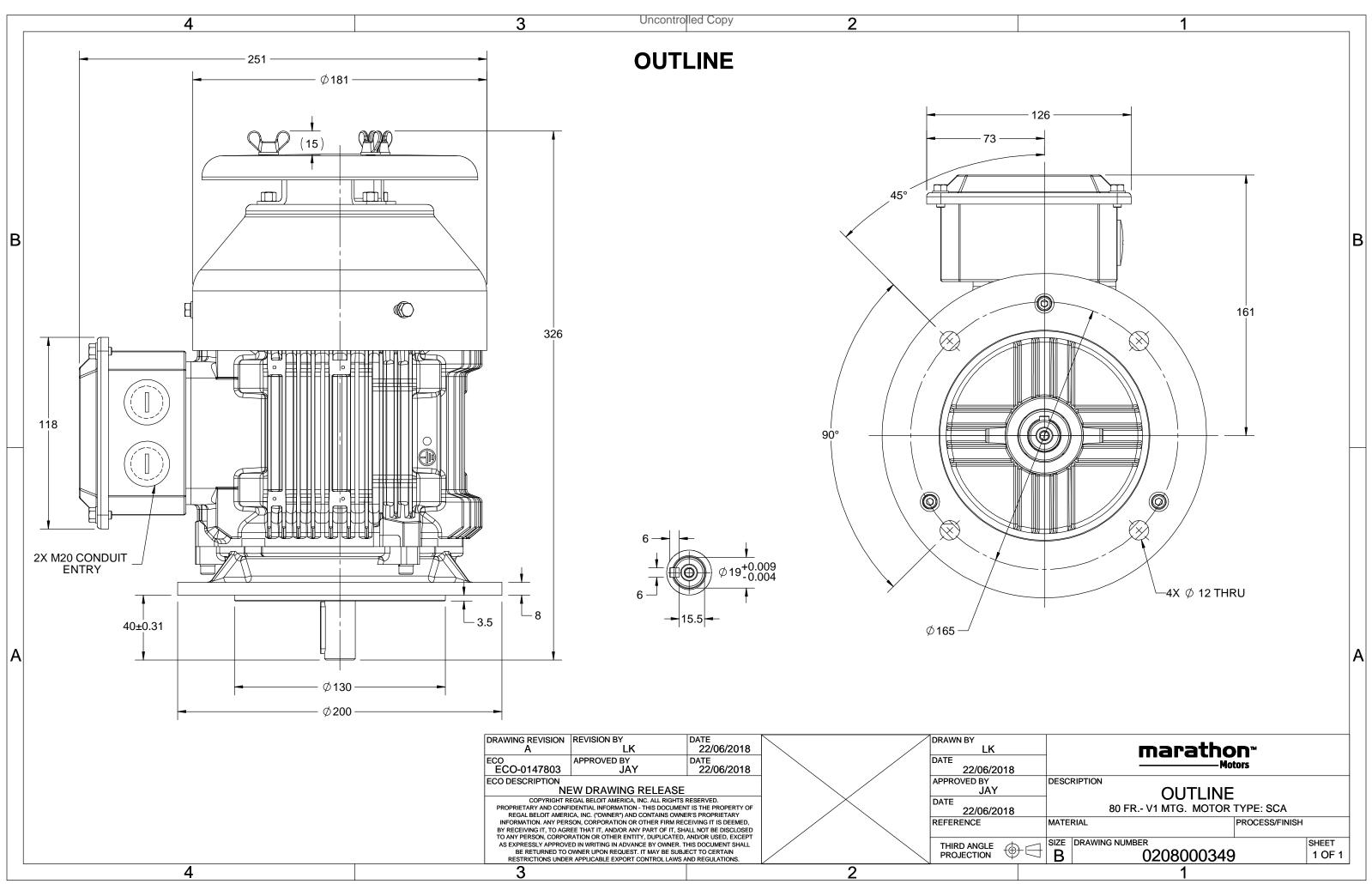TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC

Regal Rexnord®

marathon® Motors

Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.8 A	Speed	1415 rpm
Service Factor	1	Phase	3
Efficiency	79.6 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
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	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	326 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Top		
Outline Drawing	0208000349	Connection Drawing	8442000085

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OUTLINE

251
Ø181
(15)
326
118
2X M20 CONDUIT ENTRY
40±0.31
3.5
8
Ø130
Ø200

6
6
15.5
Ø19 +0.009 -0.004

126
73
45°
90°
161
4X Ø 12 THRU
Ø165

DRAWING REVISION A	REVISION BY LK	DATE 22/06/2018
ECO ECO-0147803	APPROVED BY JAY	DATE 22/06/2018

ECO DESCRIPTION
NEW DRAWING RELEASE

DRAWN BY LK		marathon™ Motors
DATE 22/06/2018		
APPROVED BY JAY	DESCRIPTION	
DATE 22/06/2018	OUTLINE 80 FR.- V1 MTG. MOTOR TYPE: SCA	
REFERENCE	MATERIAL	PROCESS/FINISH

THIRD ANGLE PROJECTION

SIZE B	DRAWING NUMBER 0208000349	SHEET 1 OF 1

DRAWING REVISION	REVISION BY	DATE
A	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. PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE.
2. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK.
3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE
   BY THE TABLE.

8WD.442.2017

DRAWN BY		REGAL ™ Regal Beloit America, Inc.		
SN				
DATE				
16/12/2016				
APPROVED BY		DESCRIPTION		
SBD		CONN DIAGRAM-NAMEPLATE		
DATE				
16/12/2016				
REFERENCE		MATERIAL		PROCESS/FINISH
THIRD ANGLE PROJECTION		SIZE	DRAWING NUMBER	SHEET
		A	8442000085	1 OF 1

marathon® Motors

*Terra***MAX®**

Model No.   SCAP752A1141GAA001

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load 5/4FL	FL	3/4FL	1/2FL	PF at __ load FL	3/4FL	1/2FL	I_A/I_N [pu]	T_A/T_N [pu]	T_K/T_N [pu]
400	Y	50	0.75	1.0	1.8	1415	5.06	IE2	-	79.6	79.6	77.2	0.75	0.7	0.58	5.84	3.1	3.3

Motor type	SCA	Degree of protection	IP 55
Enclosure	TEFC	Mounting type	IM V1
Frame Material	Cast Iron	Cooling method	IC 411
Frame size	80M	Motor weight - approx.	16.2 kg
Duty	S1	Gross weight - approx.	17.2 kg
Voltage variation *	± 10%	Motor inertia	0.0020 kgm^2
Frequency variation *	± 5%	Load inertia	Customer to Provide
Combined variation *	10%	Vibration level	1.6 mm/s
Design	N	Noise level (1meter distance from motor)	47 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)	25/12 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	PTC 150°C
Rotor type	Aluminum Die cast	Accessory - 2	-
Bearing type	Anti-friction ball	Accessory - 3	-
DE / NDE bearing	6204-2Z / 6204-2Z	Terminal box position	TOP
Lubrication method	Greased for life	Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5
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

* 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 Standards	Europe IEC: 60034-30	China -	India -	Aus/Nz AS/NZ 1359:5:2004	Brazil -	Global IEC IEC: 60034-30

REGAL®