54-SA4C Battery-less Absolute Simple Motor 230_v Dust-proof 40 Straight Coupled Specification RCS4 Model SA4C 60 **T2** Cable Length Options N: None P:1m S:3m M:5m Refer to Options 60: Servo moto 60W T2:SCON WA: Battery-less Absolute 16: 16mm 50:50mm 10: 10mm 5: 5mm MSCON SSEL XSEL-P/Q table below. 500:500mm 5: 5mm 2.5:2.5mm X□□: Specified Length R□□: Robot Cable XSEL-RA/SA



- (1) Longer strokes may cause the maximum speed to decrease due to resonance of the ball screw. Be sure to check the maximum speed of the desired stroke in the Actuator Specifications table, which can be found below.
- (2) Both the horizontal and vertical payloads assume operation at an acceleration $% \left(1\right) =\left(1\right) \left(1\right)$ of 0.3G.
- (3) When the acceleration is increased, the payload will be reduced. Please refer to "Table of Payload by Acceleration" on P.139 for more details.
- (4) Estimated allowable duty varies depending on operating conditions (payload, acceleration/deceleration, etc.). Please refer to P. 149 for more information.

Actuator Specifications

■ Lead and Payload

Motor wattage	Lead	Max. p	ayload	Rated thrust	Stroke (mm)
(W)	(mm)	Horizontal (kg)	Vertical (kg)	(N)	Stroke (mm)
	16	10	3	53	
		10		33	
	10	1.4	5	05	
60	10	14	J	65	50~500 (50mm
00	_	17	0	170	increments)
	3	17	0	170	
	2.5	20	12	240	
	2.5	20	12	340	
		(W) (mm) 16	(W) (mim) Horizontal (kg) 16 10 10 14 60 5 17	(W) (mm) Horizontal (kg) Vertical (kg) 16 10 3 10 14 5 5 17 8	(W) (mm) Horizontal (kg) Vertical (kg) (N) 16 10 3 53 10 14 5 85 5 17 8 170

Stroke and M	(Unit: mm/s)	
Stroke Lead	50~450 (50mm increments)	500 (mm)
16	960	875
10	600	555
5	300	275
2.5	150	125

Legend: Stroke Cable Length Option

Cable Length

Туре	Cable Code
	P (1m)
Standard	S (3m)
	M (5m)
Specified length (Standard cable)	X06 (6m) ~ X10 (10m)
	X11 (11m) ~ X15 (15m)
(Standard Cable)	X16 (16m) ~ X20 (20m)
	R01 (1m) ~ R03 (3m)
	R04 (4m) ~ R05 (5m)
Robot cable	R06 (6m) ~ R10 (10m)
	R11 (11m) ~ R15 (15m)
	R16 (16m) ~ R20 (20m)

Options		
Name	Option Code	Reference Page
Brake	В	See P.131
Cable exit direction (Top)	CJT	See P.131
Cable exit direction (Right)	CJR	See P.131
Cable exit direction (Left)	CJL	See P.131
Cable exit direction (Bottom)	CJB	See P.131
High-Precision specification (*1)	HPR	See P.134
Non-motor end specification	NM	See P.136
Slider roller specification	SR	See P.137
Double slider (*2)	W	See P.137

Actuator Specifications

ltem	Description
Drive system	Ball screw ø8mm, rolled C10
Positioning repeatability (*1)	±0.01mm [±0.005mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Allowable static moment	Ma direction: 13.0N·m, Mb direction: 18.6N·m, Mc direction: 25.3N·m
Allowable dynamic moment (*2)	Ma direction: 5.0N·m, Mb direction: 7.1N·m, Mc direction: 9.7N·m
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)
(*1) Values in [] and for binds and sisters	

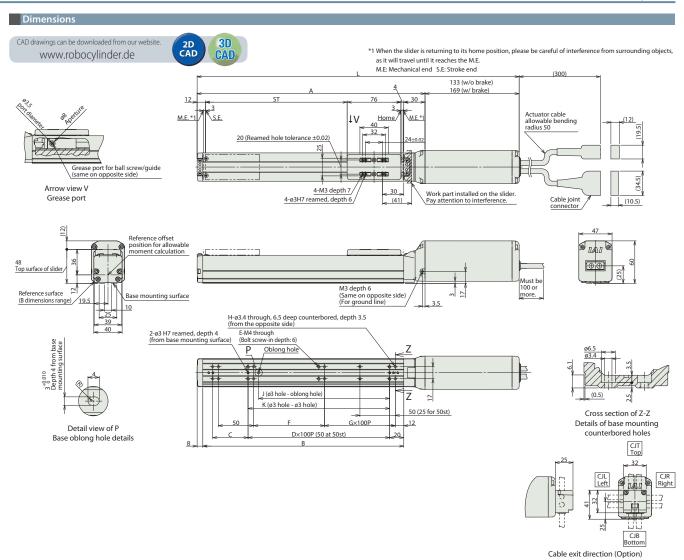
- 1) Values in [] are for high-precision specification.
- (*2) Assumes a standard rated life of 5000km. The service life will vary depending on operation and installation conditions. Please contact IAI for details of the running life.
- Reference for overhang load length: Ma: 150mm or less, Mb, Mc: 150mm or less Allowable load moment directions Overhang load lengths



If the load moments in Ma/Mb/Mc direction are within the allowable ranges, there is no overhang load length limit.

	Round cable joint connector with screw locking (*3)	EU	See P.131
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^(*1) Double slider cannot be selected. (*2) Some leads cannot be selected. (Please see P. 150) (*3) EU option will be available soon.



■ Dimensions and Mass by Stroke

	Stroke	50	100	150	200	250	300	350	400	450	500
L	W/o brake	305	355	405	455	505	555	605	655	705	755
L	W/ brake	341	391	441	491	541	591	641	691	741	791
	A	172	222	272	322	372	422	472	522	572	622
	В	134	184	234	284	334	384	434	484	534	584
	С	50	50	100	50	100	50	100	50	100	50
	D	_	1	1	2	2	3	3	4	4	5
	E	6	6	6	8	8	10	10	12	12	14
	F	50	100	50	100	50	100	50	100	50	100
	G	0	0	1	1	2	2	3	3	4	4
	Н	8	8	10	10	12	12	14	14	16	16
	J	35	85	85	185	185	285	285	385	385	485
	K	50	100	100	200	200	300	300	400	400	500
Mass	W/o brake	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	2.0
(kg)	W/ brake	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.1	2.2

he RCS4 series actuators	can be operated		rollers indicated be	low. Please se	elect the type	depending o	n your intended use.																			
Name		Max. number of connectable	Input power	Control method				Maximum number of	Reference page																	
radific	view	axes	input power	Positioner	Pulse train	Program	Network * Option	positioning points	nererence page																	
SCON-CB/CGB	ii.	1		•	•	_	DeviceNet CC-Link	512 (768 for network spec.)	Please see P.15																	
SCON-LC/LCG (*)		1		-	-	•	CompoiNet EtherCAT.	512 (768 for network spec.)																		
SCON-CAL/CGAL		1	Single phase 115V/230VAC	•	-	-		512 (768 for network spec.)	Discounting																	
MSCON-C		6																		netwo		This model is etwork-compatible only.		90890	256	Please see the dedicated controll catalog or manua
SSEL-CS		2		•	-	•	Note: The type of compatible networks will vary depending on the	20000																		
XSEL-P/Q or XSEL-RA/SA (*)	mea		Single phase 230VAC Three-phase 230VAC		-	•	controller. Please refer to the reference page for more information.	20000 or 55000 (Depending on the type)																		