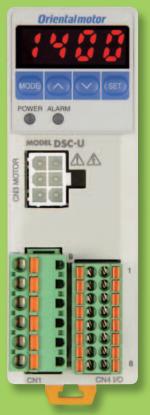
DSC Series

Simple to use Speed Control with Closed Loop Performance.



A Speed Control Solution that is Reasonably Priced, Compact and Provides Excellent Performance.

Speed Controllers



Actual Size

Providing an answer to the call for the ability to change speed without the hassle of changing settings,

the **DSC** Series provides easy, intuitive functions that don't require laborious adjustment, even for first time users.



AC Speed Control Motors

DSC Series

Features

Speed Control Using Closed Loop Control

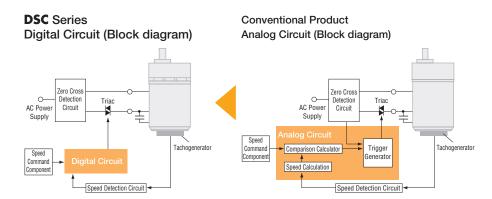
Speed regulation $\pm 1\%$ (Reference value)

Speed is always monitored by the tachogenerator built into the AC motor. The actual speed is controlled to match the speed setting, even when the load fluctuates.

Digital Circuits

Most of the analog circuits that were used in the past have been digitized, now run by the CPU, and circuit components have been vastly reduced. This has reduced the size as well as the number of circuit components. Due to this, it is possible to make the deviation for the speed command and speed detection values almost 0, and speed regulation has been improved from -5% to $\pm 1\%^{*}$.

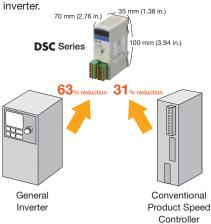
*0~permissible torque when at 1000 r/min



Easy, Less Space

Compact

The volume is 63% smaller than a general inverter



Connecting the Motor and Driver is Easy

Wiring the speed controller and motor together uses a connector, so installation and removal is easy.



Screwless I/O Wiring Requires No Crimping or Screwing

No need for soldering or crimping tools, and no torque management for screws. Reduces wiring time and maintenance.



Slim Body

Depth is 90 mm (3.54 in.). Can be installed in slim control cabinets.



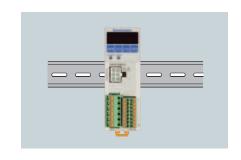
Side-by-Side Installation Saves Space

The body width is 35 mm (1.38 in.), and even when using multiple axes, the installation is compact because they can be installed side by side.



Easy DIN Rail Installation

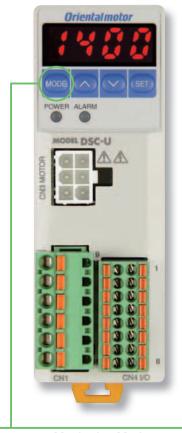
The speed controller can be installed directly on the DIN rail.



Features

Functionality in a Compact Body

Speed and Other Settings are Shown and can be Entered Directly



Monitoring Mode

Real-time monitor for speed (motor, gear shaft, conveyor speed), alarms, warnings, I/O status monitor

Data Mode

Speed setting

Parameter Mode

Set I/O assignments and parameters

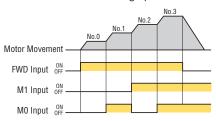
Test Mode

Test operation without data setting is possible.

An operation lock can prevent accidental operation.

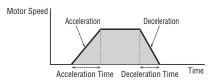
Speed Control (4 speeds)

4 units of operating data can be set, and can be switched with I/O during operation.



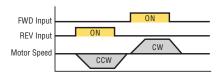
Acceleration/Deceleration

Makes the motor movement at start/stop smoother. It is possible to set acceleration/ deceleration differently for each of the 4-speed data units.



Bi-Directional Operation

Performs the operation according to the command for rotation direction.



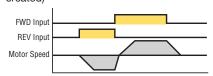
Instantaneous Stop

Stops the operating motor instantaneously. (Short cycle run/stop conditions can be created)



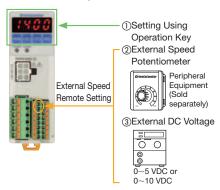
Instantaneous Bi-Directional Operation

Instantaneously switches the rotation direction of the motor while operating. (Short cycle change conditions can be created)



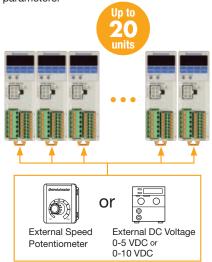
External Speed Setting Input is Possible

Setting is possible not only using the operation keys, but also through an external speed potentiometer (sold separately) or external DC voltage.



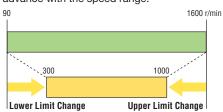
Parallel-Motor Operation (20 Units Max.)

A single external speed potentiometer can operate a max. of 20 units in parallel. Fine adjustment of each motor's speed can be performed by changing the controller's parameters.

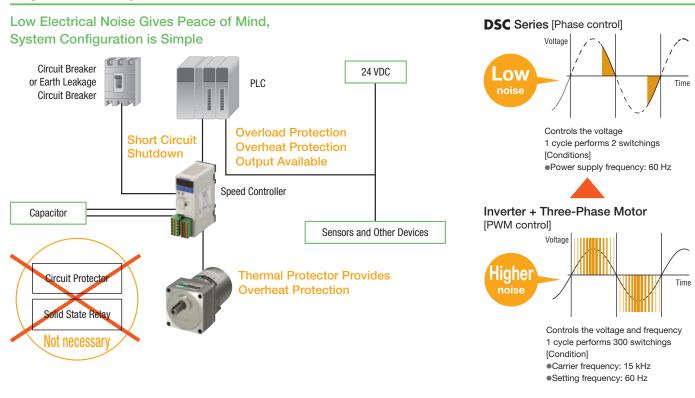


Speed Range Control

It is possible to limit the speed setting in advance with the speed range.

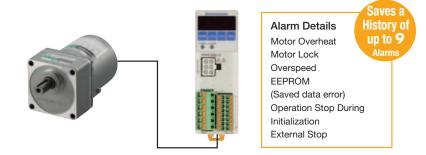


High Reliability



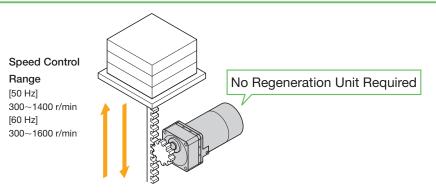
Alarm Output Increases Reliability

Thanks to the closed loop control, feedback on the motor status is provided to the controller in real-time. An alarm signal is output when an abnormality, such as motor lock due to overload, occurs and the supply of power to the motor is stopped.



Vertical Operation is Possible using the Deceleration Control Feature and an Electromagnetic Brake

Speed control in vertical operation is possible through Deceleration Control. (For details on Deceleration Control and driving conditions while using Deceleration Control, refer to page 45.)



Features

Utilizes a Gearhead that Excels in Both Torque and Strength

Right-angle Shaft Hypoid **JH/JL** Gears

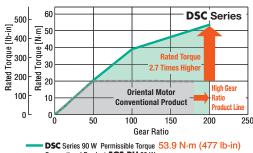
Uses high-strength hypoid gears. Compared to conventional products, torque has been greatly increased and noise has been reduced. Furthermore, the radial load and axial load on the gearhead output shaft have been increased, contributing to decreased equipment size and increased reliability.





Output Power 90 W (1/8 HP) Permissible Radial Load (10 mm from installation surface) Permissible Axial Load

1291 N (290 lb.) 343 N (77 lb.)



DSC Series 90 W Permissible Torque 53.9 N·m (477 lb-in)
Conventional Product 5GE-RH 90 W
Rated Torque 20 N·m (177 lb-in)

Parallel Shaft Gearhead **GV** Gears

The adoption of a larger output shaft bearing and carburized gears has allowed for increased torque, permissible radial load and axial load when compared to conventional gearheads.



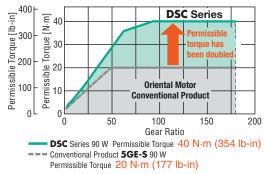


Output Power 90 W (1/8 HP)

Permissible Radial Load 500 N (112 lb.)

10 mm (0.39 in.) from the end of the output shaft

Permissible Axial Load 150 N (33 lb.)



Pre-assembled Motor and Gearhead Right-angle Shaft Hypoid JH/JL Gears, Parallel Shaft

Gearhead **GV** Gears

Motor and Gearhead are Delivered Pre-assembled

Reduces customer assembly time, and can be installed on equipment immediately.



Detachable Gearhead

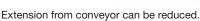
The motor position can be rotated in 90° increments, and the lead wire pull-out direction can be changed. The gearhead can be purchased and replaced for maintenance or to change the gear ratio.

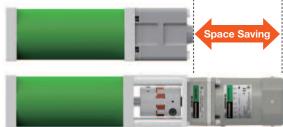


Reduced Space and Cost Right-angle Shaft Hypoid JH/JL Gears

Motor Mounted Perpendicularly to the Drive Shaft, Saves Space



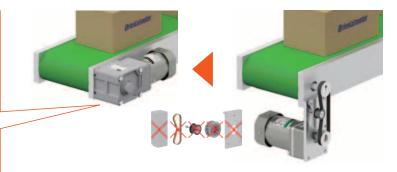




Connect Directly to the Drive Shaft to Reduce Costs

- Reduce Number of Parts
- Reduce Assembly Labor
- ●Shorten Design & Assembly Time

Reduced Cost Improved Efficiency



Installation Inside Conveyor Provides Further Space Savings

Conveyor drive rollers can be installed on both ends of the load shaft of a hollow shaft type. The equipment can be made even smaller compared to when the motor is installed on the side of the conveyor.



Use of a torque arm (Peripheral equipment → Page 75) allows for even further time and labor savings for installation. (Hollow shaft type)

Advantages of torque arm installation

- Centering of equipment is easier
- Only one anti-spin location is fine for equipment fixture

Application Example



Check Oriental Motor's website for a video showing an installation method using the torque arm.

Installation Using Torque Arm



Installation Plate

Product Line

Motor **Speed Controller Connection Cable** Output Output Power Supply | Max. Permissible **Power Supply** Cable Type Type Power Voltage Torque Туре Power Voltage [W (HP)] [V] [N·m (lb-in)] [W (HP)] [V] NEW Standard Type Single-phase Right-angle Shaft Hypoid 100 VAC JH Gear Single-phase 25 (1/30) →Page 11 110/115 VAC 53.9 40 (1/19) Single-phase (477) 90 (1/8) NEW 200 VAC Standard Type Standard Type Single-phase Connection Cables Single-phase Right-angle Shaft Hypoid 220/230 VAC Flexible Connection Cables 6 (1/125) 100 VAC **JL** Gear 15 (1/50) Single-phase → Page 11 25 (1/30) 110/115 VAC 40 (1/19) Single-phase 60 (1/12) 200 VAC Standard Type 90 (1/8) Single-phase 40 1~10 m Single-phase Parallel Shaft Gearhead 220/230 VAC (354) 6 (1/125) 100 VAC (3.3~32.8 ft.) **GV** Gear 15 (1/50) Single-phase → Page 26 25 (1/30) 110/115 VAC 40 (1/19) Single-phase Standard Type 60 (1/12) 200 VAC Round Shaft Type 90 (1/8) Single-phase 0.73 → Page 26 220/230 VAC (6.5)NEW Type with an Electromagnetic Single-phase 100 VAC Brake Right-angle Shaft Hollow Hypoid JH Gear Type with an Single-phase → Page 44 25 (1/30) Electromagnetic **Connection Cables** 110/115 VAC 53.9 40 (1/19) Flexible Connection Cables Single-phase (477) Brake Single-phase 90 (1/8) 200 VAC 100 VAC 6 (1/125) Type with an Electromagnetic Single-phase 15 (1/50) Single-phase Brake Right-angle Shaft 220/230 VAC 25 (1/30) 110/115 VAC Hollow Hypoid JL Gear 40 (1/19) Single-phase → Page 44 60 (1/12) 200 VAC 90 (1/8) Single-phase Single-phase 220/230 VAC Type with an Electromagnetic Brake 1~10 m 6 (1/125) 100 VAC Parallel Shaft Gearhead (3.3~32.8 ft.) 15 (1/50) Single-phase **GV** Gear 25 (1/30) 110/115 VAC 40 → Page 55 40 (1/19) 60 (1/12) (354) Single-phase 200 VAC 90 (1/8) Single-phase 220/230 VAC

Overview of Related Products



Rack-and-Pinion L Series

AC Speed Control Motors with Built in DSC Series

Easily Build a Linear Mechanism with the Rack-and-Pinion System **L** Series. The on-board AC speed control motor allows for reasonable speed control.

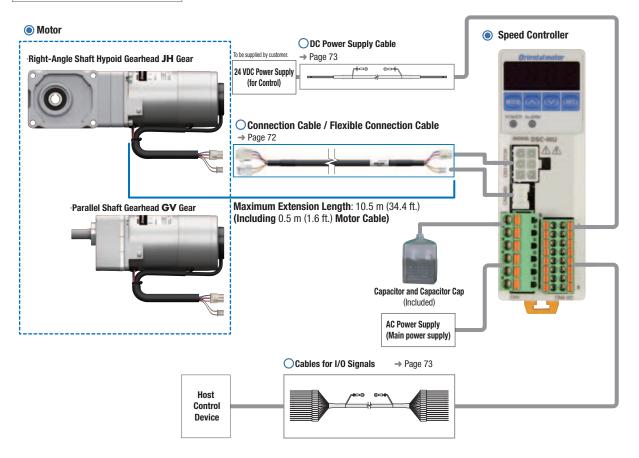
● Features

- · Easily build a compact linear motion mechanism.
- · Heavy loads can be transferred vertically.
- · Transportable mass from 6.6 to 67 kg (14.6 to 148 lb.).
- · Compact speed controller provides easy speed control.



System Configuration

Purchase is requiredPurchase as necessary





●Example of System Configuration Pricing



[■] The system configuration shown above is an example. Other combinations are also available.

Product Number

Motor

SCM 4 25 K UA M-4 H 10 B

① ② ③ ④ ⑤ ⑥

Gearhead Product Name

7 8 9

Motor Product Name

◇Parallel Shaft Gearhead **GV** Gear

SCM 4 25 UA _ - 15

1 2 3 4 5 6

SCM 4 25 A-UA

① ② ③ ⑥ ④

Speed Controller

DSCD 25 UA

① ② ③ ④

Connection Cable, Flexible Connection Cable

CC 01 SC R ① 2 3 4 5

	1	Motor Type	SCM: Speed Control Motor
	2	Frame Size	4 : 80 mm (3.15 in.) 5 : 90 mm (3.54 in.)
	3	Output Power (W)	(Example) 25: 25 W (1/30 HP)
Motor	4	Combination Motor	K: Round Shaft Type (with Key)
Product Name	(5)	Power Supply Voltage	JA: Single-Phase 100 VAC UA: Single-Phase 110/115 VAC JC: Single-Phase 200 VAC EC: Single-Phase 220/230 VAC
	6	M: Power-Off Activated	Type Electromagnetic Brake
	7	Combination Motor Frame Size	4 : 80 mm (3.15 in.) 5 : 90 mm (3.54 in.)
Gearhead Product Name	8	Gearhead Type	H : Right-Angle Hollow Shaft Hypoid JH Gear L : Right-Angle Solid Shaft Hypoid JL Gear
Name	9	Gear Ratio	Number: Geahead Gear Ratio
	(10)	Output Shaft Material	B: Steel

1	Motor Type	SCM: Speed Control Motor
2	Frame Size	2 : 60 mm (2.36 in.) 3 : 70 mm (2.76 in.) 4 : 80 mm (3.15 in.) 5 : 90 mm (3.54 in.)
3	Output Power (W)	(Example) 25 : 25 W (1/30 HP)
4	Power Supply Voltage	JA: Single-Phase 100 VAC JC: Single-Phase 200 VAC JC: Single-Phase 200 VAC EC: Single-Phase 220/230 VAC
(5)	M: Power-Off Activated	d Type Electromagnetic Brake
6	Gear Ratio/Shaft Type	Number: Gearhead Gear Ratio A: Round Shaft Type

1	Speed Controller Type	DSCD: DSC Series Speed	Controller		
2	Output Power (W)	(Example) 25: 25 W (1/30 H	HP)		
3	Power Supply Voltage		UA : Single-Phase 110/115 VAC EC : Single-Phase 220/230 VAC		
4	M: Power-Off Activated Type Electromagnetic Brake				

1	Cable Type	CC: Connection Cable			
2	Length	01 : 1 m (3.3 ft.) 02 : 2 m (6.6 ft.) 03 : 3 m (9.8 ft.) 05 : 5 m (16.4 ft.) 10 : 10 m (32.8 ft.)			
3	Applicable Model	SC: Speed Control Motor			
4	M: Power-Off Activated	d Type Electromagnetic Brake			
(5)	Blank: Connection Cable	R: Flexible Connection Cable			

\$97.00

\$135.00

\$231.00

Standard Type

Right-Angle Shaft Hypoid Gearhead









Hollow Shaft Type

Solid Shaft Type

Product Line

Right-Angle Shaft Hypoid Gearhead

Price includes motor and gearhead.





Output Power	Power Supply	Hollow Shaft Type		Solid Shaft Type			
output rowei	rower supply	Product Name	Gear Ratio	List Price	Product Name	Gear Ratio	List Price
	Single-Phase 110/115 VAC	SCM425KUA-4H□B	10, 15, 20, 30, 50	\$354.00	SCM425KUA-4L□B	10, 15, 20, 30, 50	\$320.00
25 W	Siligle-Pliase 110/115 VAC	SCM42SKUA-4⊓⊔b	100, 200	\$383.00	SCM425KUA-4L_B	100, 200	\$335.00
(1/30 HP)	Single-Phase 220/230 VAC	SCM425KEC-4H□B	10, 15, 20, 30, 50	\$357.00	SCM425KEC-4L□B	10, 15, 20, 30, 50	\$323.00
	Sillyle-Filase 220/230 VAC	SCM423REC-4H_B	100, 200	\$386.00	JCM423REC-4L_B	100, 200	\$338.00
	Single-Phase 110/115 VAC	SCM540KUA-5H□B	10, 15, 20, 30, 50	\$374.00	SCM540KUA-5L□B	10, 15, 20, 30, 50	\$340.00
40 W			100, 200	\$403.00	3CM34UNUA-3L_B	100, 200	\$355.00
(1/19 HP)	Single-Phase 220/230 VAC	SCM540KEC-5H□B	10, 15, 20, 30, 50	\$378.00	SCM540KEC-5L B	10, 15, 20, 30, 50	\$344.00
	Siligle-Pliase 220/230 VAC		100, 200	\$407.00	SCM34UREC-3L_B	100, 200	\$359.00
	Single-Phase 110/115 VAC	SCM590KUA-5H B	10, 15, 20, 30, 50	\$423.00	SCM590KUA-5L□B	10, 15, 20, 30, 50	\$389.00
90 W	Sillyle-Filase 110/115 VAC	SCMSYUKUA-SH□B	100, 200	\$452.00	3CM37UNUA-3L_B	100, 200	\$404.00
(1/8 HP)	Cingle Phase 220/220 VAC	COMEDONEC ELID	10, 15, 20, 30, 50	\$428.00	SCM590KEC-5L B	10, 15, 20, 30, 50	\$394.00
	Single-Phase 220/230 VAC	SCM590KEC-5H□B	100, 200	\$457.00	3CM3YUNEC-3L□B	100, 200	\$409.00

Speed Controller

Price includes speed controller, capacitor and capacitor cap.



Connection Cables

• Flexible Connection Cables



	1	
Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCR	\$68.00
2 m (6.6 ft.)	CC02SCR	\$78.00

CC03SCR

CC05SCR

CC10SCR

Output Power	Power Supply Voltage	Product Name	List Price
25 W	Single-Phase 110/115 VAC	DSCD25UA	\$125.00
(1/30 HP)	Single-Phase 220/230 VAC	DSCD25EC	\$125.00
40 W	Single-Phase 110/115 VAC	DSCD40UA	\$125.00
(1/19 HP)	Single-Phase 220/230 VAC	DSCD40EC	\$125.00
90 W	Single-Phase 110/115 VAC	DSCD90UA	\$127.00
(1/8 HP)	Single-Phase 220/230 VAC	DSCD90EC	φ127.00

Length	Product Name	List Price	Length
1 m (3.3 ft.)	CC01SC	\$35.00	1 m (3.3 ft.)
2 m (6.6 ft.)	CC02SC	\$39.00	2 m (6.6 ft.)
3 m (9.8 ft.)	CC03SC	\$49.00	3 m (9.8 ft.)
5 m (16.4 ft.)	CC05SC	\$68.00	5 m (16.4 ft.)
10 m (32.8 ft.)	CC10SC	\$116.00	10 m (32.8 ft.)

Included

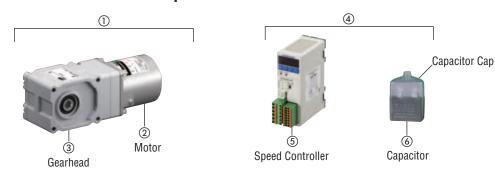
Motor

Shaft Type	Installation Screws	Parallel Key	Safety Cover	Operating Manual	
Hollow Shaft Type	1 Cot	1 pc. (Material: Stainless Steel)	1 pc.	- 1 Copy	
Solid Shaft Type	1 Set	1pc. (Material: Steel)	_		

Speed Controller

	•		
ĺ	Capacitor	Capacitor Cap	Operating Manual
•	1 nc	1 nc	1 Conv

List of Motor and Speed Controller Combinations



Right-Angle Hollow Shaft Hypoid JH Gear

		Speed Control Motor			Speed Controller		
Output Power	Power Supply Voltage	Product Name	Product Name Component Produ		Product Name	Compor	nent Product Name
		①	2	3	4	(5)	6
	Single-Phase 100 VAC	SCM425KJA-4H□B	SCM425KJA		DSCD25JA		CH80CFAUL2
25 W	Single-Phase 200 VAC	SCM425KJC-4H□B	SCM425KJC		DSCD25JC		CH20BFAUL
(1/30 HP)	Single-Phase 110/115 VAC	SCM425KUA-4H□B	SCM425KUA	4HLB	DSCD25UA	DSC-U	CH65CFAUL2
	Single-Phase 220/230 VAC	SCM425KEC-4H□B	SCM425KEC		DSCD25EC		CH15BFAUL
	Single-Phase 100 VAC	SCM540KJA-5H□B	SCM540KJA	- 5H□B	DSCD40JA		CH110CFAUL2
40 W	Single-Phase 200 VAC	SCM540KJC-5H□B	SCM540KJC		DSCD40JC		CH30BFAUL
(1/19 HP)	Single-Phase 110/115 VAC	SCM540KUA-5H□B	SCM540KUA		DSCD40UA		CH90CFAUL2
	Single-Phase 220/230 VAC	SCM540KEC-5H□B	SCM540KEC	1	DSCD40EC		CH23BFAUL
	Single-Phase 100 VAC	SCM590KJA-5H□B	SCM590KJA		DSCD90JA]	CH280CFAUL2
90 W	Single-Phase 200 VAC	SCM590KJC-5H□B	SCM590KJC		DSCD90JC		CH70BFAUL
(1/8 HP)	Single-Phase 110/115 VAC	SCM590KUA-5H□B	SCM590KUA		DSCD90UA	1	CH200CFAUL2
	Single-Phase 220/230 VAC	SCM590KEC-5H□B	SCM590KEC		DSCD90EC		CH60BFAUL

[•] A capacitor and a capacitor cap are included with the speed controller product (product name ④). A capacitor cap is not included with the capacitor product (product name ⑥).

Right-Angle Solid Shaft Hypoid JL Gear

		Speed Control Motor			Speed Controller		
Output Power	Power Supply Voltage	Product Name	Component Produ	Component Product Name		Product Name Compo	
		1	2	3	4	(5)	6
	Single-Phase 100 VAC	SCM425KJA-4L□B	SCM425KJA		DSCD25JA		CH80CFAUL2
25 W	Single-Phase 200 VAC	SCM425KJC-4L□B	SCM425KJC	4L□B	DSCD25JC	1	CH20BFAUL
(1/30 HP)	Single-Phase 110/115 VAC	SCM425KUA-4L□B	SCM425KUA	4LUD	DSCD25UA	1	CH65CFAUL2
	Single-Phase 220/230 VAC	SCM425KEC-4L□B	SCM425KEC		DSCD25EC		CH15BFAUL
	Single-Phase 100 VAC	SCM540KJA-5L□B	SCM540KJA		DSCD40JA		CH110CFAUL2
40 W	Single-Phase 200 VAC	SCM540KJC-5L□B SCM54		5L□B	DSCD40JC	DSC-U	CH30BFAUL
(1/19 HP)	Single-Phase 110/115 VAC	SCM540KUA-5L□B	SCM540KUA	JL∐B	DSCD40UA	D3C-0	CH90CFAUL2
	Single-Phase 220/230 VAC	SCM540KEC-5L□B	SCM540KEC		DSCD40EC]	CH23BFAUL
-	Single-Phase 100 VAC	SCM590KJA-5L□B	SCM590KJA		DSCD90JA	1	CH280CFAUL2
90 W	Single-Phase 200 VAC	SCM590KJC-5L□B	SCM590KJC	5L□B	DSCD90JC		CH70BFAUL
(1/8 HP)	Single-Phase 110/115 VAC	SCM590KUA-5L□B	SCM590KUA	JULIB	DSCD90UA		CH200CFAUL2
	Single-Phase 220/230 VAC	SCM590KEC-5L□B	SCM590KEC		DSCD90EC		CH60BFAUL

A capacitor and a capacitor cap are included with the speed controller product (product name (4)). A capacitor cap is not included with the capacitor product (product name (6)).

₩ us (€

Right-Angle Shaft

Electromagnetic Brake

■Specifications - Continuous Rating

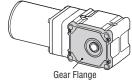
●25 W (1/30 HP)

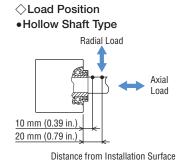
	Product Name			Voltage	Frequency	Current	Power Consumption	Capacitor	Motor Overheat Protection
Hollow Shaft Type	Solid Shaft Type	Speed Controller	Power [W (HP)]	[VAC]	[Hz]	[A]	[W]	[μF]	Device
SCM425KJA-4H□B	SCM425KJA-4L□B	DSCD25JA		Single-Phase 100	50	0.75	62	8.0	TP
JCM-2JRJA-4H_B	JCM+2JKJA-4L□B	DJCDZJJA			60	0.75	66	0.0	IP
SCM/25K IC-/ILITE	SCM425KJC-4H□B SCM425KJC-4L□B DSCD25JC	DSCD25 IC		Single-Phase 200	50	0.38	67	2.0	TP
JCM-2JKJC-4H□B		DSCD25JC	Sillyle-Filase 200	60	0.38	67	2.0	"	
SCM425KUA-4H□B	SCM425KUA-4L□B	DSCD25UA	25	Single-Phase 110	60	0.75	58	6.5	TP
JCM+2JRUA-4H□B	3CM423ROA-4L_B	DJCDZJOA	(1/30)	Single-Phase 115	00	0.75	69	0.5	
				Single-Phase 220	50	0.37	70		
SCM425KEC-4H□B	SCM425KEC-4L□B	DSCD25EC		Siligic-i liase 220	60	0.37	70	1.5	TP
Jem-25kte 411_b	JCM-ZJKLC-TL_D	D3CD25EC		Single-Phase 230	50	0.37	70	1.5	
				Jiligie-i flase 230	60	0.37	70		

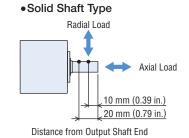
TP: This indicates that there is a built-in thermal protector (automatic return type).

Gear Ratio				10	15	20	30	50	100	200
Rotation Direction*1					Same direction as the motor				Opposite direction to the motor	
Variable Speed Range [r/min]	High Casad	1400 r/m	in (50 Hz)	140	93	70	46	28	14	7
	High Speed	1600 r/m	in (60 Hz)	160	106	80	53	32	16	8
	Low Speed	90 ו	/min	9	6	4.5	3	1.8	0.9	0.5
		1200 r/min	50 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
	0: 1 5:	1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.0 (17.7)	3.3 (29)	5.5 (48)	10.0 (88)	20.0 (177)
	Single-Phase 100 VAC	90 r/min	50/60 Hz	0.28 (2.4)	0.41 (3.6)	0.55 (4.8)	0.91 (8.0)	1.5 (13.2)	2.8 (24)	5.5 (48)
	200 VAC		100 VAC 50 Hz	0.65 (5.7)	0.98 (8.6)	1.3 (11.5)	2.1 (18.5)	3.6 (31)	6.5 (57)	13.0 (115)
	200 1/10	Starting	100 VAC 60 Hz	0.68 (6.0)	1.0 (8.8)	1.4 (12.3)	2.2 (19.4)	3.7 (32)	6.8 (60)	13.5 (119)
			200 VAC 50/60 Hz	0.60 (5.3)	0.90 (7.9)	1.2 (10.6)	2.0 (17.7)	3.3 (29)	6.0 (53)	12.0 (106)
Darmiasible Targue	Single-Phase	1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
Permissible Torque [N·m (lb-in)]		90 r/min	60 Hz	0.23 (2.0)	0.34 (3.0)	0.45 (3.9)	0.74 (6.5)	1.2 (10.6)	2.3 (20)	4.5 (39)
[[4 111 (10-111)]	115 VAC	Starting	110 VAC 60 Hz	0.63 (5.5)	0.94 (8.3)	1.3 (11.5)	2.1 (18.5)	3.4 (30)	6.3 (55)	12.5 (110)
		Ů	115 VAC 60 Hz	0.68 (6.0)	1.0 (8.8)	1.4 (12.3)	2.2 (19.4)	3.7 (32)	6.8 (60)	13.5 (119)
	Single-Phase	1200 r/min	50 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
		1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
	220 VAC	90 r/min	50/60 Hz	0.20 (1.77)	0.30 (2.6)	0.40 (3.5)	0.66 (5.8)	1.1 (9.7)	2.0 (17.7)	4.0 (35)
	230 VAC	Starting	220 VAC 50/60 Hz	0.55 (4.8)	0.83 (7.3)	1.1 (9.7)	1.8 (15.9)	3.0 (26)	5.5 (48)	11.0 (97)
		Starting	230 VAC 50/60 Hz	0.60 (5.3)	0.90 (7.9)	1.2 (10.6)	2.0 (17.7)	3.3 (29)	6.0 (53)	12.0 (106)
Permissible Inertia J				100 (550)	225 (1230)	400 (2200)	900 (4900)	2500 (13700)	10000 (55000)	40000 (220000)
$[\times 10^{-4} \text{ kg} \cdot \text{m}^2 (\text{oz-in}^2)]$		When Instantaneous	Stop is Performed	28 (153)	63 (340)	112 (610)	252 (1380)	700 (3800)	2800 (15300)	11200 (61000)
	Hollow	10 mm (0.39 in.) fro	m Installation Surface	311 (69)	400 (90)	488 (109)	622 (139)	799 (179)	888 (199)	978 (220)
Permissible Radial	Shaft*2	20 mm (0.79 in.) fro	m Installation Surface	265 (59)	341 (76)	417 (93)	531 (119)	682 (153)	758 (170)	836 (188)
Load [N (lb.)]	Solid Shaft	10 mm (0.39 in.) fro	m Output Shaft End	304 (68)	390 (87)	477 (107)	607 (136)	781 (175)	868 (195)	956 (210)
[(/]	JUIU JIIAIL	20 mm (0.79 in.) fro	m Output Shaft End	390 (87)	501 (112)	613 (137)	780 (175)	1003 (220)	1114 (250)	1228 (270)
Permissible Axial Load	[N (lb.)]			88 (19.8)	108 (24)	137 (30)	177 (39)	226 (50)	245 (55)	275 (61)

- *1 The rotation direction is as seen from the gear flange surface.
- *2 The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25
- 90 r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.







lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

●40 W (1/19 HP)



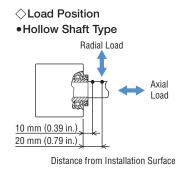
	Product Name		Output Power	Voltage	Frequency	Current	Power Consumption	Capacitor	Motor Overheat Protection
Hollow Shaft Type	Solid Shaft Type	Speed Controller	[W (HP)]	[VAC]	[Hz]	[A]	[W]	[μF]	Device
SCM540KJA-5H□B	SCM540KJA-5L□B	DSCD40JA		Single-Phase 100	50	1.1	92	- 11	TP
3CM34OKJA-3H_B	3CM340KJA-3L_B	DOCDTOIA			60	1.1	101		ir ir
SCM540KJC-5H□B SCM540KJC-5L□B DSCD40JC	DSCD401C	7 [Single-Phase 200	50	0.57	94	3.0	TP	
3CM34OKJC-JH_B	CM340KJC-3H_B SCM340KJC-3L_B DSCD40JC	D3CD4O3C	40 (1/19)	Olligio i flasc 200	60	0.57	100	0.0	
SCM540KUA-5H□B	SCM540KUA-5L□B	DSCD40UA		Single-Phase 110	60	1.1	107	9.0	TP
JCMJ-TOKOA-JII_B	JCMS-JOKOA-JE_B	DSCDTOOA	40 (1/13)	Single-Phase 115	00	1.1	107	3.0	
				Single-Phase 220	50	0.55	96		
SCM540KEC-5H□B	SCM540KEC-5L□B	DSCD40EC		Siligic-i liase 220	60	0.55	104	2.3	TP
3CM340REC-3H_B	SCM340REC-SL_B	D3CD40EC		Single-Phase 230	50	0.55	99		
				Sillyic-Filase 250	60	0.55	105		

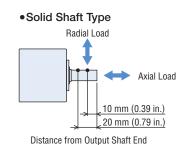
TP: This indicates that there is a built-in thermal protector (automatic return type).

Gear Ratio				10	15	20	30	50	100	200
Rotation Direction*1				Same direction as the motor					Opposite direction to the motor	
We deld a Occasi Decree	High Speed	1400 r/n	nin (50 Hz)	140	93	70	46	28	14	7
Variable Speed Range [r/min]	підії әреец	1600 r/n	nin (60 Hz)	160	106	80	53	32	16	8
[1/11111]	Low Speed	90	r/min	9	6	4.5	3	1.8	0.9	0.5
		1200 r/min	50 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
		1450 r/min	100 VAC 60 Hz	1.5 (13.2)	2.3 (20)	3.0 (26)	4.5 (39)	7.5 (66)	16.5 (146)	33.0 (290)
	O' In Diagram	1430 1/111111	200 VAC 60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
	Single-Phase 100 VAC	90 r/min	100 VAC 50/60 Hz	0.40 (3.5)	0.60 (5.3)	0.80 (7.0)	1.2 (10.6)	2.0 (17.7)	4.4 (38)	8.8 (77)
	200 VAC	90 1/111111	200 VAC 50/60 Hz	0.45 (3.9)	0.68 (6.0)	0.90 (7.9)	1.4 (12.3)	2.3 (20)	5.0 (44)	9.9 (87)
	200 1/10		100 VAC 50 Hz	0.90 (7.9)	1.4 (12.3)	1.8 (15.9)	2.7 (23)	4.5 (39)	9.9 (87)	19.8 (175)
December 2015 Tonics		Starting	100 VAC 60 Hz 200 VAC 50/60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
Permissible Torque [N·m (lb-in)]		1450 r/min	60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
[14-111 (10-111)]	Single-Phase 110 VAC	90 r/min	60 Hz	0.35 (3.0)	0.53 (4.6)	0.70 (6.1)	1.1 (9.7)	1.8 (15.9)	3.9 (34)	7.7 (68)
	115 VAC	Starting	110 VAC 60 Hz	0.90 (7.9)	1.4 (12.3)	1.8 (15.9)	2.7 (23)	4.5 (39)	9.9 (87)	19.8 (175)
		Starting	115 VAC 60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
		1200 r/min	50 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
	Single-Phase	1450 r/min	60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
	220 VAC	90 r/min	50 Hz	0.33 (2.9)	0.49 (4.3)	0.65 (5.7)	0.98 (8.6)	1.6 (14.1)	3.6 (31)	7.2 (63)
	230 VAC	90 1/111111	60 Hz	0.35 (3.0)	0.53 (4.6)	0.70 (6.1)	1.1 (9.7)	1.8 (15.9)	3.9 (34)	7.7 (68)
		Starting	50/60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
Permissible Inertia J				200 (1090)	450 (2500)	800 (4400)	1800 (9800)	5000 (27000)	20000 (109000)	80000 (440000)
$[\times 10^{-4} \text{ kg} \cdot \text{m}^2 (\text{oz-in}^2)]$		When Instantaneous	Stop is Performed	59 (320)	132.8 (730)	236 (1290)	531 (2900)	1475 (8100)	5900 (32000)	23600 (129000)
December 1941 - December 1	Hollow	10 mm (0.39 in.) fro	m Installation Surface	415 (93)	554 (124)	692 (155)	923 (200)	1112 (250)	1196 (260)	1291 (290)
Permissible Radial Load	Shaft*2	20 mm (0.79 in.) fro	m Installation Surface	363 (81)	484 (108)	605 (136)	806 (181)	971 (210)	1045 (230)	1127 (250)
[N (lb.)]	Solid Shaft	10 mm (0.39 in.) fro	om Output Shaft End	378 (85)	504 (113)	630 (141)	840 (189)	1011 (220)	1089 (240)	1174 (260)
F - (/J	Juliu Jilait	20 mm (0.79 in.) fro	om Output Shaft End	481 (108)	641 (144)	802 (180)	1069 (240)	1287 (280)	1385 (310)	1495 (330)
Permissible Axial Load	[N (lb.)]			108 (24)	147 (33)	186 (41)	245 (55)	294 (66)	324 (72)	343 (77)

 $[\]slash\!$ 1 The rotation direction is as seen from the gear flange surface.

Gear Flange Position Gear Flange





^{*2} The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25

 $[\]blacksquare$ 90 r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.

lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

Features

Electromagnetic Brake

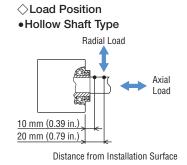
	Product Name			Voltage	Frequency	Current	Power Consumption	Capacitor	Motor Overheat Protection
Hollow Shaft Type	Solid Shaft Type	Speed Controller	Power [W (HP)]	[VAC]	[Hz]	[A]	[W]	[μF]	Device
SCM590KJA-5H□B	SCM590KJA-5L□B	DSCD90JA		Single-Phase 100	50	2.4	195	- 28	TP
3CM370KJA-3H_B	3CM370KJA-3L_B	DSCD70JA		6	60	2.6	217		IF.
SCM590KJC-5H□B	SCM590KJC-5L□B	DSCD90JC	90JC	Single-Phase 200	50	1.2	198	7.0	TP
3CM370KJC-3H_B	JCMJ90KJC-JL_B	D3CD7O3C		Sillyle-Filase 200	60	1.3	221		
SCM590KUA-5H□B	SCM590KUA-5L□B	DSCD90UA 90	90 (1/8)	Single-Phase 110	60	2.4	224	20	TP
3CM370K0A-3H□B	3CM39OROA-3L_B	DSCD700A	30 (1/0)	Single-Phase 115	00	2.5	227	20	ir .
				Single-Phase 220	50	1.2	201		
SCM590KEC-5H□B	SCM590KEC-5L□B	DSCD90EC		Sillyle-Filase 220	60	1.3	226	6.0	TP
	SCM330KEC-3L_B	DSCD90EC		Single-Phase 230	50	1.2	204		
					60	1.3	228		

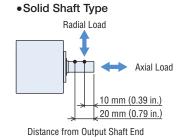
 $[\]label{eq:total_problem} \textit{TP: This indicates that there is a built-in thermal protector (automatic return type)}.$

ear Ratio				10	15	20	30	50	100	200
Rotation Direction*1				Same direction as the motor					Opposite direction to the motor	
Variable Cased Dance	High Speed	1400 r/m	nin (50 Hz)	140	93	70	46	28	14	7
Variable Speed Range [r/min]	riigii Speeu	1600 r/m	nin (60 Hz)	160	106	80	53	32	16	8
[1/111111]	Low Speed	90 r/min		9	6	4.5	3	1.8	0.9	0.5
		1200 r/min	50 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
		1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
	Single-Phase 100 VAC	90 r/min	100 VAC 50/60 Hz 200 VAC 60 Hz	0.77 (6.8)	1.2 (10.6)	1.5 (13.2)	2.3 (20)	3.9 (34)	7.7 (68)	15.4 (136)
	200 VAC		200 VAC 50 Hz	0.84 (7.4)	1.3 (11.5)	1.7 (15.0)	2.5 (22)	4.2 (37)	8.4 (74)	16.8 (148)
	200 VA0		100 VAC 50/60 Hz	3.3 (29)	4.9 (43)	6.6 (58)	9.9 (87)	16.5 (146)	32.9 (290)	53.9 (470)
		Starting	200 VAC 50 Hz	3.4 (30)	5.0 (44)	6.7 (59)	10.1 (89)	16.8 (148)	33.6 (290)	53.9 (470)
			200 VAC 60 Hz	3.6 (31)	5.4 (47)	7.1 (62)	10.7 (94)	17.9 (158)	35.7 (310)	53.9 (470)
	O' I - Di	1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
Permissible Torque [N·m (lb-in)]	Single-Phase 110 VAC	90 r/min	60 Hz	0.60 (5.3)	0.89 (7.8)	1.2 (10.6)	1.8 (15.9)	3.0 (26)	6.0 (53)	11.9 (105)
[IV III (ID III)]	115 VAC	Starting	110 VAC 60 Hz	2.8 (24)	4.2 (37)	5.6 (49)	8.4 (74)	14.0 (123)	28.0 (240)	53.9 (470)
	1.0 1.10	Starting	115 VAC 60 Hz	3.1 (27)	4.6 (40)	6.2 (54)	9.2 (81)	15.4 (136)	30.8 (270)	53.9 (470)
	Single-Phase 220 VAC	1200 r/min	50 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
		1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
		90 r/min	50/60 Hz	0.67 (5.9)	1.0 (8.8)	1.3 (11.5)	2.0 (17.7)	3.3 (29)	6.7 (59)	13.3 (117)
			220 VAC 50 Hz	3.4 (30)	5.1 (45)	6.9 (61)	10.3 (91)	17.2 (152)	34.3 (300)	53.9 (470)
	230 VAC	Starting	220 VAC 60 Hz	3.5 (30)	5.3 (46)	7.0 (61)	10.5 (92)	17.5 (154)	35.0 (300)	53.9 (470)
		Starting	230 VAC 50 Hz	3.6 (31)	5.5 (48)	7.3 (64)	10.9 (96)	18.2 (161)	36.4 (320)	53.9 (470)
			230 VAC 60 Hz	3.7 (32)	5.6 (49)	7.4 (65)	11.1 (98)	18.6 (164)	37.1 (320)	53.9 (470)
Permissible Inertia J				200 (1090)	450 (2500)	800 (4400)	1800 (9800)	5000 (27000)	20000 (109000)	80000 (440000)
$[\times 10^{-4} \text{ kg} \cdot \text{m}^2 (\text{oz-in}^2)]$		When Instantaneous	Stop is Performed	39 (210)	87.8 (480)	156 (850)	351 (1920)	975 (5300)	3900 (21000)	15600 (85000)
Danniarible Dadiel	Hollow	10 mm (0.39 in.) fro	m Installation Surface	415 (93)	554 (124)	692 (155)	923 (200)	1112 (250)	1196 (260)	1291 (290)
Permissible Radial Load	Shaft*2	20 mm (0.79 in.) fro	m Installation Surface	363 (81)	484 (108)	605 (136)	806 (181)	971 (210)	1045 (230)	1127 (250)
[N (lb.)]	Solid Shaft	10 mm (0.39 in.) fro	m Output Shaft End	378 (85)	504 (113)	630 (141)	840 (189)	1011 (220)	1089 (240)	1174 (260)
r - (/J	Juliu Jilait	20 mm (0.79 in.) fro	m Output Shaft End	481 (108)	641 (144)	802 (180)	1069 (240)	1287 (280)	1385 (310)	1495 (330)
Permissible Axial Load	[N (lb.)]			108 (24)	147 (33)	186 (41)	245 (55)	294 (66)	324 (72)	343 (77)

- *1 The rotation direction is as seen from the gear flange surface.
- \$2 The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25
- \bullet 90 r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.

Gear Flange





lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

■Common Specifications

	Item	Specifications				
Speed Setting Method		The speed of the motor output shaft can be set using any of the following methods: Using operation panel Up to four types of operation data can be set. Using an external speed potentiometer Using external DC voltage: 0 to 5 VDC, or 0 to 10 VDC				
Acceleration Time and Deceleration Time Setting Range		0.0 to 15.0 s The motor acceleration time and deceleration time vary depending on the load condition.				
	Monitor Mode	Speed, Operation Data No., Alarm Code, Warning Code, I/O Monitor				
	Data Mode	Speed, Accelerating Time, Decelerating Time, Initialization				
Functions	Parameter Mode	Speed Reduction Ratio, Speed Increasing Ratio, Lowest Digit Display Fixed, Prevention of Operation at Power-on Alarm, External Speed Command Input, External Speed Command Voltage Selection, External Speed Command OffSet, Speed Upper and Lower Limit, Input Function Selection, Output Function Selection, Motor Lock Detection Time, Motor Rotation Direction, Initialization				
	Test Mode	JOG Operation				
	Other Function	Prohibiting Data Editing				
Control Power Supply		24 VDC±10% 0.15 A min.				
Input Signals		Photocoupler Input, Input Resistance: $4.7 \text{ k}\Omega$ Signal assignment to IN0 to IN5 inputs (6 points) is possible as desired. []: Initial Setting [FWD], [REV], [M0], [M1], [ALARM-RESET], [FREE], EXT-ERROR Source input or sink input can be switched using the selection switch. Factory Setting: Sink Input				
Output Signals		Photocoupler and Open-Collector Output, External Power Supply: 4.5 to 30 VDC, 40 mA max. Signal assignment to OUT0 and OUT1 outputs (2 points) is possible as desired. []: Initial Setting [SPEED-OUT], [ALARM-OUT], TH-OUT, WNG Source output or sink output can be switched by changing the external wiring.				
Protective Function		When any of the following protective functions is activated, the motor will coast to a stop. Then the ALARM output will be turned off. At the same, the alarm code will be displayed on the control panel and the ALARM LED will be lit. Alarm Types: Motor Overheat, Motor Lock, Overspeed, EEPROM Error, Prevention of Operation at Power-On, External Stop				
Maximum Extension L	ength	Between the motor and the speed controller: 10 m (32.8 ft.)				

General Specifications

	Item	Motor	Speed Controller				
Insulation Res	istance	$100\text{M}\Omega$ or more when 500 VDC megger is applied between the windings and the case after continuous operation under normal ambient temperature and humidity.	$100\ M\Omega$ or more when $500\ VDC$ megger is applied between the following places after continuous operation under normal ambient temperature and humidity: • Main Circuit Terminal - Control Circuit Terminal • Main Circuit Terminal - Case • Main Circuit Terminal - FG				
Dielectric Strength		Sufficient to withstand 1.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.	Sufficient to withstand the following for 1 minute after continuous operation under normal ambient temperature and humidity: Main Circuit Terminal - Control Circuit Terminal 1.9 kVAC at 50 Hz or 60 Hz Main Circuit Terminal - Case 1.9 kVAC at 50 Hz or 60 Hz Main Circuit Terminal - FG 1.5 kVAC at 50 Hz or 60 Hz				
Temperature Rise		The temperature rise of the windings is 80°C (176°F) or less measured by the resistance change method after no-load continuous operation under normal ambient temperature and humidity.	_				
Overheat Prote	ection Device	Thermal Protector Built-in (Automatic Return Type) Open: $130\pm5^{\circ}\text{C}$ ($266\pm9^{\circ}\text{F}$) Close: $85\pm20^{\circ}\text{C}$ ($185\pm36^{\circ}\text{F}$)	-				
	Ambient Temperature	0 to $+40^{\circ}$ C ($+32$ to $+104^{\circ}$ F) (Non-freezing)	0 to +50°C (+32 to +122°F) (Non-freezing)				
	Ambient Humidity	85% or less (Non-condensing)					
	Altitude	Up to 1000 m (3300 ft.) above sea level					
Operating Environment	Surrounding Atmosphere	· ·	ld not be exposed to water, oil or other liquids. etic field, vacuum or other special environments.				
FIMIOIIIIGIII	Vibration	In conformance with JIS C 60068-2- Frequency Range: 10 to 55 Hz, Puls:	brations or excessive impact. 6 "Sine-wave vibration test method" ating Amplitude: 0.15 mm (0.006 in.) Y, Z), Number of Sweeps: 20 times				
	Ambient Temperature	$-10 \text{ to } +60^{\circ}\text{C} \text{ [} +14 \text{ to } +140^{\circ}\text{F] (Non-freezing)}$	-25 to +70°C [-13 to +158°F] (Non-freezing)				
Storage	Ambient Humidity	85% or less (N	on-condensing)				
Conditions*	Altitude	Up to 1000 m (3300	Oft.) above sea level				
Contaitions	Surrounding Atmosphere		ld not be exposed to water, oil or other liquids. stic field, vacuum or other special environments.				
Thermal Class	3	130 (B)	-				
Degree of Prof	tection	IP20	IP20				

^{*}The storage condition applies to short periods such as the period during transportation.

Note

[•] Do not measure insulation resistance or perform the dielectric voltage test while the motor and speed controller are connected.

How to Read Speed - Torque Characteristics

The characteristics on the right shows the relationship between each setting speed and torque when a speed control motor is operated.

(1) Continuous Duty Region

Continuous operation is possible in this region within the specification rating.

(2) Limited Duty Region

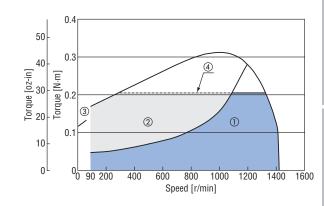
The motor case temperature may exceed 90°C (194°F) if operated continuously within the limited duty region. When operating within the limited duty region, ensure that the motor case temperature is maintained at 90°C (194°F) or less.

(3) Starting Torque

This refers to the degree of torque with which the motor can start.

(4) Permissible Torque

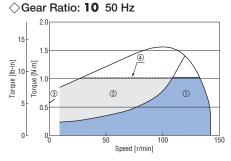
This refers to the permissible value of the motor torque when operating with the gearhead installed. Use the motor without exceeding the value on the list of permissible torques.

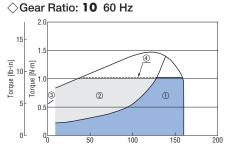


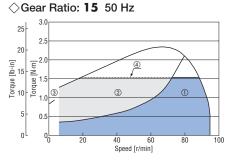
Speed - Torque Characteristics (Reference values) Ocontinuous Duty Region OLimited Duty Region OStarting Torque APermissible Torque

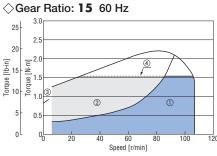
• All output characteristics are representative values. The permissible torque and starting torque of the motor vary according to the voltage. Use after checking the specifications and permissible torque.

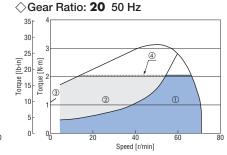
25 W (1/30 HP)

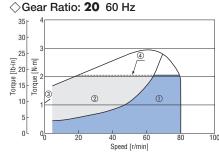


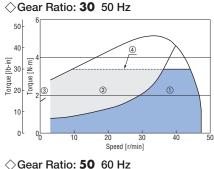


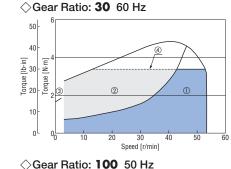


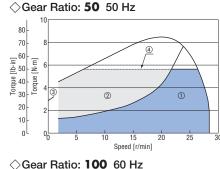


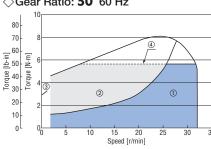


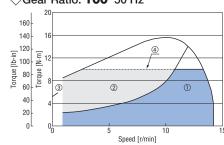


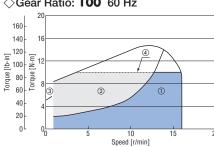


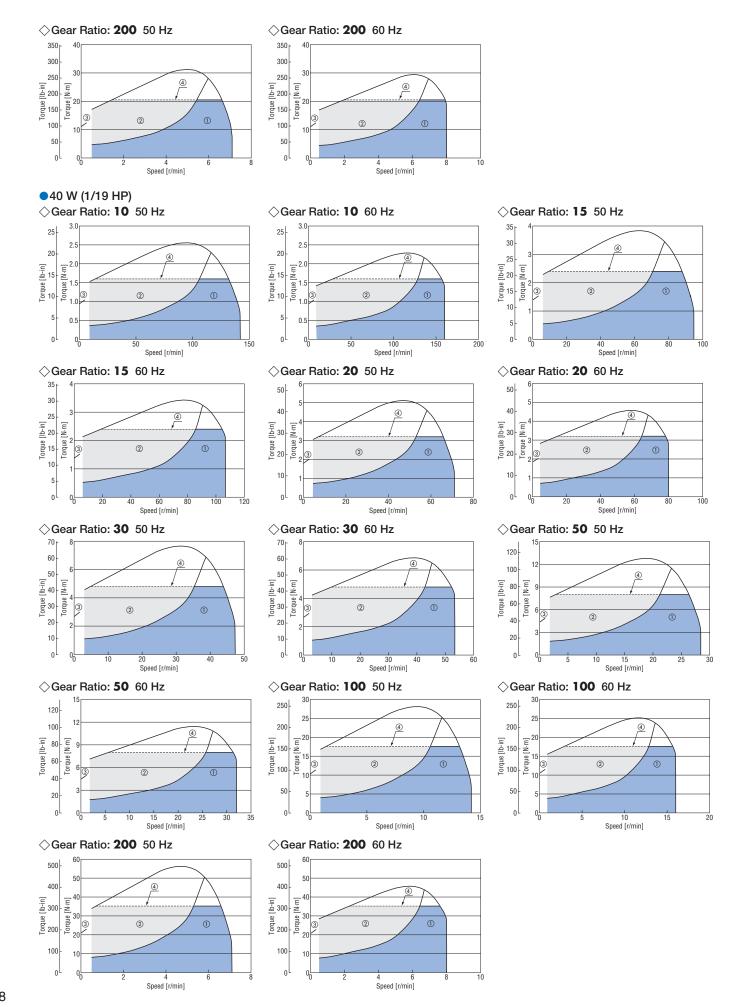


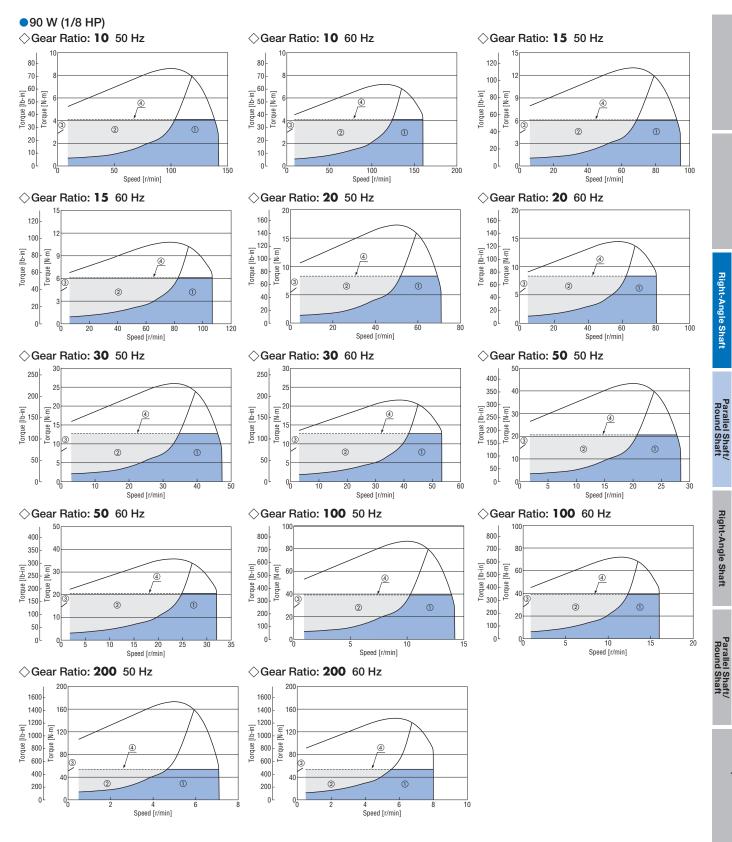












Dimensions [Unit: mm (in.)]

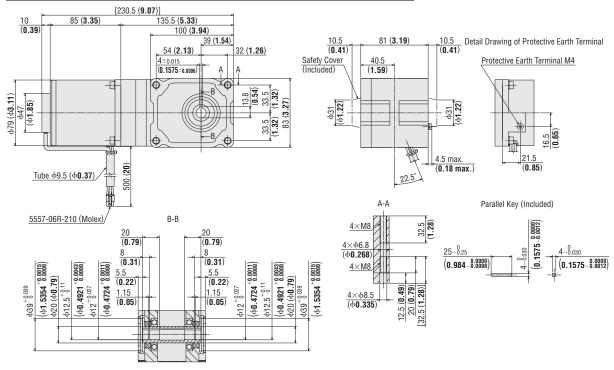
- "Installation screws" are included. Dimensions for installation screws → Page 24
- A number indicating the gear ratio is specified where the box

 is located within the product name.

●25 W (1/30 HP)

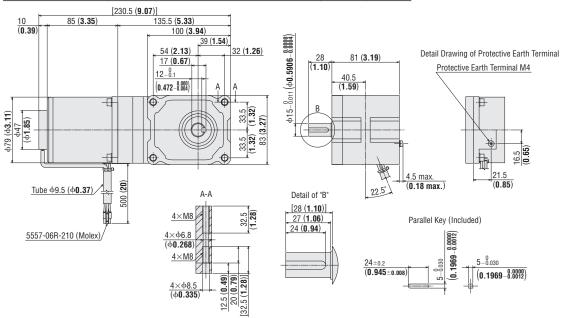
2D & 3D CAD

Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM425KJA-4H□B	SCM425KJA			
SCM425KJC-4H□B	SCM425KJC		3.6	A1680
SCM425KUA-4H□B	SCM425KUA	4⊓⊔ D	(7.9)	
SCM425KEC-4H□B	SCM425KEC			



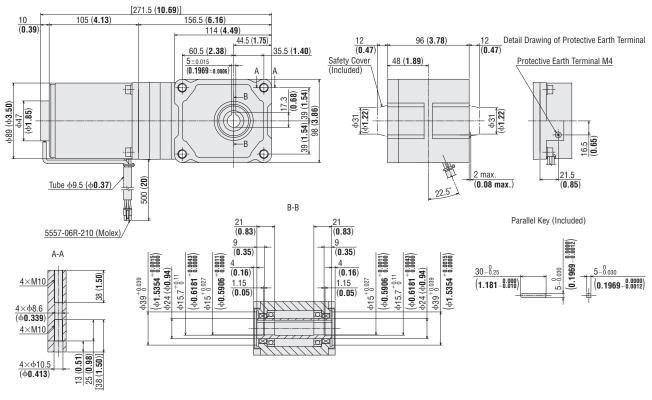
2D & 3D CAD

Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM425KJA-4L□B	SCM425KJA			
SCM425KJC-4L□B	SCM425KJC	4L□B	3.6 (7.9)	A1681
SCM425KUA-4L□B	SCM425KUA	4L⊔D		
SCM425KEC-4L□B	SCM425KEC			



●40 W (1/19 HP)

Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD	
SCM540KJA-5H□B	SCM540KJA			A1682	
SCM540KJC-5H□B	SCM540KJC	5H□B	5.6 (12.3)		
SCM540KUA-5H□B	SCM540KUA	JIILIB			
SCM540KEC-5H□B	SCM540KEC				

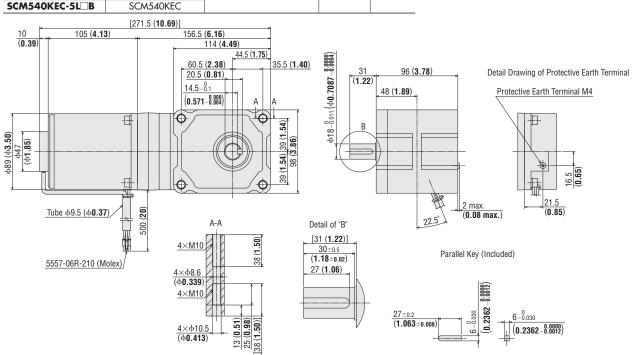


◇Right-Angle Solid Shaft Hypoid JL Gear

2D & 3D CAD

2D & 3D CAD

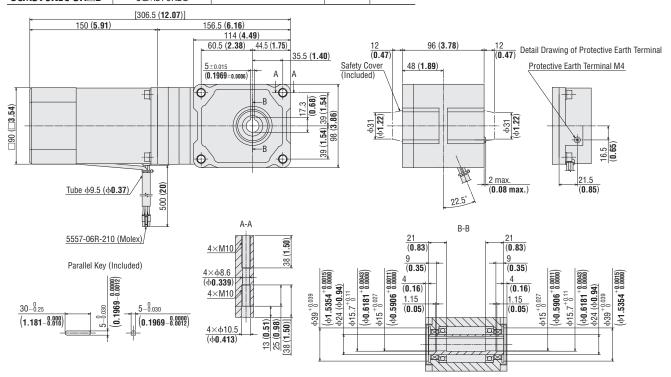
	• • • • • • • • • • • • • • • • • • • •			
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM540KJA-5L□B	SCM540KJA		5.6 (12.3)	A1683
SCM540KJC-5L□B	SCM540KJC	5L□B		
SCM540KUA-5L□B	SCM540KUA	JL∐D		
SCM540KEC-5L B	SCM540KFC			



90 W (1/8 HP)

◇Right-Angle Hollow Shaft Hypoid JH Gear

Vilight Angle Honow Ghart Hypota 311 dear				G OD GAD
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM590KJA-5H□B	SCM590KJA			
SCM590KJC-5H□B	SCM590KJC	5H□B	6.3	A1684
SCM590KUA-5H□B	SCM590KUA	JIILIB	(13.9)	A1004
SCM590KEC-5H B	SCM590KFC			

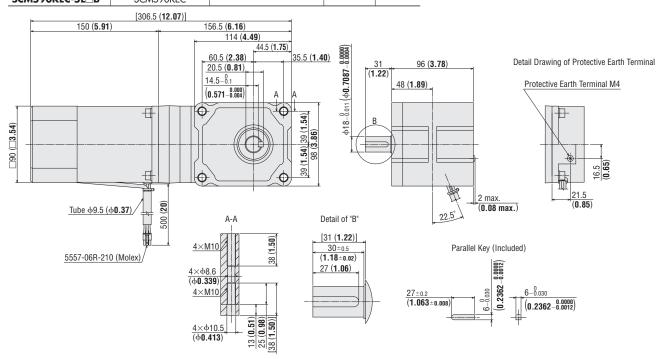


2D & 3D CAD

2D & 3D CAD

◇Right-Angle Solid Shaft Hypoid JL Gear

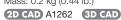
	· · · · · · · · · · · · · · · · · · ·			
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM590KJA-5L□B	SCM590KJA			
SCM590KJC-5L□B	SCM590KJC	5L□B	6.3	A1685
SCM590KUA-5L□B	SCM590KUA	JL∐B	(13.9)	A1000
SCM590KFC-51 R	SCM590KEC			

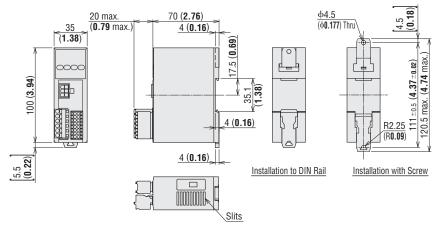


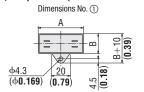
Speed Controller

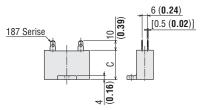
DSC-U

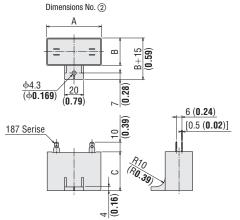
Mass: 0.2 kg (0.44 lb.)











Connection Cable

Product Name	Length L [m (ft.)]		
CC01SC	1 (3.3.)		
CC02SC	2 (6.6)		
CCO3SC	3 (9.8)		
CC05SC	5 (16.4)		
CC10SC	10 (32.8)		

Flexible Connection Cable

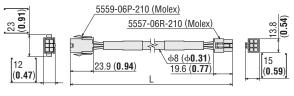
Product Name	Length L [m (ft.)]
CC01SCR	1 (3.3.)
CC02SCR	2 (6.6)
CC03SCR	3 (9.8)
CC05SCR	5 (16.4)
CC10SCR	10 (32.8)

• Capacitor Dimensions [unit: mm (in.)]

•	-					
Speed			Capacito	r		
Controller Product Name	Product Name	A	В	С	Mass g (oz.)	Dimension No.
DSCD25JA	CH80CFAUL2	48 (1.89)	21 (0.83)	31 (1.22)	41 (1.45)	
DSCD25JC	CH20BFAUL	48 (1.89)	19 (0.75)	29 (1.14)	36 (1.27)	
DSCD25UA	CH65CFAUL2	48 (1.89)	19 (0.75)	29 (1.14)	35 (1.24)	
DSCD25EC	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	
DSCD40JA	CH110CFAUL2	58 (2.28)	21 (0.83)	31 (1.22)	49 (1.73)	1
DSCD40JC	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	
DSCD40UA	CH90CFAUL2	48 (1.89)	22.5 (0.89)	31.5 (1.24)	45 (1.59)	
DSCD40EC	CH23BFAUL	48 (1.89)	21 (0.83)	31 (1.22)	43 (1.52)	
DSCD90JA	CH280CFAUL2	58 (2.28)	35 (1.38)	50 (1.97)	140 (4.9)	
DSCD90JC	CH70BFAUL	58 (2.28)	35 (1.38)	50 (1.97)	138 (4.9)	<u> </u>
DSCD90UA	CH200CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	91 (3.2)	2
DSCD90EC	CH60BFAUL	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	

A capacitor and a capacitor cap are included with the speed controller product.

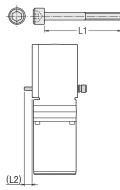
A capacitor cap is not included with the capacitor product.



Motor Side Speed Controller Side

■Dimensions for Installation Screws

Right-Angle Shaft Hypoid Gearhead



Product Name	Gear Ratio	Installatio	1.2 [mm (in)]	
Floudet Name	ueai naliu	Screw Size	L1 [mm (in.)]	L2 [mm (in.)]
4H□B 4L□B	10 to 200	M6	95 (3.74)	11 (0.43)
5H□B 5L□B	10 to 200	M8	110 (4.33)	10 (0.39)

Installation Screws: 4 each pieces of flat washers and spring washers are included.

[•] The material of the installation screw is stainless steel.

Installation of Hollow Shaft Load

Example of Load Shaft Installation Method

The load installation method differs depending on the shape of the load shaft. See the figures below.

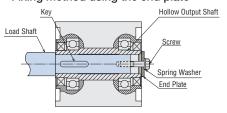
- The hollow output shaft is processed to a tolerance of the inner diameter H8, and incorporates a key slot for load shaft installation.
- The recommended tolerance of the load shaft is h7.

Note

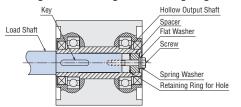
■ To prevent sticking, apply a coat of grease on the exterior surface of the load shaft and interior surface of the hollow output shaft.

♦ Stepped Load Shaft

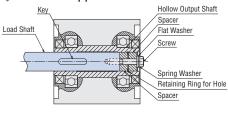
• Fixing method using the end plate



• Fixing method using the retaining ring for hole



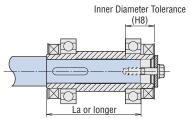
♦ For Non-Stepped Load Shaft



Recommended Load Shaft Installation Method

Uni	mr	n	(11)	٦.,

Output Power		25 W (1/30 HP)	40 W (1/19 HP), 90 W (1/8 HP)	
Inner Diameter of Hollow Shaft (H8)		$\varphi12 {}^{+0.027}_{0} \; (\varphi0.4724 {}^{+0.0011}_{0})$	ф15 +0.027 (ф0.5906 +0.0011)	
Recommended Tolerance of Load Shaft (h7)		ф12 0 (ф0.4724 0 0.0007)	ф15 0 (ф0.5906 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Screw Size		M5	M6	
	Outer Diameter	ф11.5 (ф0.45)	ф14.5 (ф0.57)	
Spacer Size	Inner Diameter	ф6 (ф0.24)	ф7 (ф0.28)	
	Width	3 (0.12)	3 (0.12)	
	Diameter of Retaining Retaining Ring)	ф12 (ф0.47)	ф15 (ф0.59)	
End Plate Thickness		3 (0.12)	3 (0.12)	
Stepped Shaft	La Length	55 (2.17)	72 (2.83)	
C Dataining views for halos anabous argues and other marks used to install the load shoft are not included				



Permissible Radial Load Calculation of the Hollow Shaft Type

Formulas to calculate permissible radial loads vary depending on the mechanism.

\diamondsuit When One End of the Load Shaft is Not Supported by a Bearing Unit

•25 W (1/30 HP)

Permissible Radial Load
$$W$$
 [N] = $\frac{58.5}{48.5 + L_P} \times F_{\theta}$

•40 W (1/19 HP), 90 W (1/8 HP)

Permissible Radial Load
$$W$$
 [N] = $\frac{69}{59 + L_P} \times F_\theta$

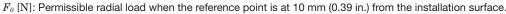
♦ When One End of the Load Shaft is Supported by a Bearing Unit

•25 W (1/30 HP)

$$\text{Permissible Radial Load } W \left[\mathbf{N} \right] = \frac{58.5 \; (\mathbf{S} + 5.5)}{53 \; (\mathbf{S} - L_P)} \times F_{\theta}$$

•40 W (1/19 HP), 90 W (1/8 HP)

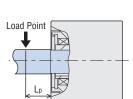
Permissible Radial Load
$$W$$
 [N] = $\frac{69 \text{ (S+4)}}{65 \text{ (S-}L_{P})} \times F_{\theta}$

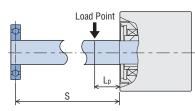


 L_P [mm]: Distance from the installation surface to the load point.

 $S\ [\mathrm{mm}]$: Distance from the installation surface to the bearing unit.







[•] Retaining rings for holes, spacers, screws and other parts used to install the load shaft are not included. The customer must supply these.

Standard Type

Parallel Shaft Gearhead **GV** Gear Round Shaft Type



Parallel Shaft Gearhead GV Gear

Product Line

Parallel Shaft Gearhead GV Gear

Price includes motor and gearhead.



• Speed Controller Price includes speed controller, capacitor and capacitor cap.



							40	
Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price	Output Power	Power Supply Voltage	Product Name	List Price
			5, 6, 7. 5, 9, 12 . 5, 15, 18	\$147.00			DSCD6UA DSCD15UA DSCD15EC DSCD25UA DSCD25EC DSCD40UA DSCD40EC DSCD60UA DSCD60EC DSCD90UA	
	Single-Phase	SCM26UA-□	25, 30, 36	\$154.00		Single-Phase	DSCD6UA	
	110/115 VAC	JCM200A-	50, 60, 75, 90, 100, 120, 150, 180	\$162.00		110/115 VAC	DSCDOOA	
6 W			250, 300, 360	\$197.00	6 W			\$125.00
(1/125 HP)			5, 6, 7. 5, 9 , 12.5, 15, 18	\$149.00	(1/125 HP)			ψ123.00
	Single-Phase	SCM26EC-□	25, 30, 36	\$156.00		Single-Phase	DSCD6FC	
	220/230 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$164.00		220/230 VAC	2342014	
			250, 300, 360	\$199.00			DSCD6UA DSCD6EC DSCD15UA DSCD25UA DSCD25EC DSCD40UA DSCD40EC DSCD60UA	
			5, 6, 7. 5, 9 , 12.5, 15, 18	\$157.00			DSCD15EC DSCD25UA DSCD25EC	
	Single-Phase	SCM315UA-□	25, 30, 36	\$164.00		Single-Phase	DSCD15UA	
	110/115 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$173.00		110/115 VAC	200210021	
15 W			250, 300, 360	\$205.00	15 W			\$125.00
(1/50 HP)			5, 6, 7. 5, 9 , 12.5, 15, 18	\$160.00	(1/50 HP)			4.20.00
	Single-Phase	SCM315EC-	25, 30, 36	\$167.00		Single-Phase	DSCD15EC	
	220/230 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$176.00		220/230 VAC		
			250, 300, 360	\$208.00			DSCD6UA DSCD6EC DSCD15UA DSCD15EC DSCD25UA DSCD25EC DSCD40UA DSCD40UA DSCD60UA DSCD60UA	
			5, 6, 7.5, 9, 12.5, 15, 18	\$167.00				
	Single-Phase	SCM425UA-□	25, 30, 36	\$174.00		Single-Phase	DSCD25UA	
	110/115 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$182.00		110/115 VAC		
25 W			250, 300, 360	\$217.00	25 W			\$125.00
(1/30 HP)			5, 6, 7.5, 9, 12.5, 15, 18	\$171.00	(1/30 HP)			
	Single-Phase	SCM425EC-□	25, 30, 36	\$178.00		Single-Phase	DSCD25EC	
	220/230 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$186.00		220/230 VAC		
			250, 300, 360	\$221.00			DSCD25EC	
			5, 6, 7.5, 9, 12.5, 15, 18	\$199.00		Single Phase		
	Single-Phase	SCM540UA-□	25, 30, 36	\$207.00			DSCD40UA	
	110/115 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$214.00		110/115 VAC		
40 W			250, 300	\$279.00	40 W			\$125.00
(1/19 HP)	0		5, 6, 7.5, 9, 12.5, 15, 18	\$202.00	(1/19 HP)	0 5.		
	Single-Phase 220/230 VAC	SCM540EC-□	25, 30, 36 50, 60, 75, 90, 100, 120, 150, 180	\$210.00 \$217.00		Single-Phase 220/230 VAC	DSCD40EC	
	220/230 VAG		250, 300	\$217.00		220/230 VAC		
			5, 6, 7. 5, 9, 12.5, 15, 18	\$282.00				
	Cingle Phone		25, 30, 36, 50, 60, 75, 90, 100	\$240.00		Cingle Dhoos		
	Single-Phase 110/115 VAC	SCM560UA-□	120, 150, 180	\$261.00		Single-Phase 110/115 VAC	DSCD60UA	
60 W	110/110 VAO		250, 300	\$295.00	60 W	110/110 VAO		
(1/12 HP)			5, 6, 7. 5, 9, 12.5, 15, 18	\$244.00	(1/12 HP)			\$126.00
(1/12111)	Single-Phase		25, 30, 36, 50, 60, 75, 90, 100	\$255.00	(1/12111)	Single-Phase		
	220/230 VAC	SCM560EC-□	120, 150, 180	\$265.00		220/230 VAC	DSCD60EC	
	223/200 1/10		250, 300	\$299.00		223/200 1/10		
			5, 6, 7. 5, 9, 12.5, 15, 18	\$258.00	-		DSCD6UA DSCD6EC DSCD15UA DSCD15EC DSCD25UA DSCD25EC DSCD40UA DSCD40EC DSCD60UA	-
	Single-Phase	SCM590UA-	25, 30, 36, 50, 60	\$278.00		Single-Phase	DSCD90UA	
90 W	110/115 VAC		75, 90, 100, 120, 150, 180	\$288.00	90 W	110/115 VAC		
(1/8 HP)			5, 6, 7.5 , 9, 12.5, 15, 18	\$263.00	(1/8 HP)			\$127.00
, /	Single-Phase	SCM590EC-□	25, 30, 36, 50, 60	\$283.00	(/	Single-Phase	DSCD90EC	
	220/230 VAC		75. 90. 100. 120. 150. 180	\$293.00		220/230 VAC		

lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

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Right-Angle Shaft

Electromagnetic Brake

Output Power	Power Supply Voltage	Product Name	List Price
6 W	Single-Phase 110/115 VAC	SCM26A-UA	\$81.00
(1/125 HP)	Single-Phase 220/230 VAC	SCM26A-EC	\$83.00
15 W	Single-Phase 110/115 VAC	SCM315A-UA	\$86.00
(1/50 HP)	Single-Phase 220/230 VAC	SCM315A-EC	\$89.00
25 W	Single-Phase 110/115 VAC	SCM425A-UA	\$94.00
(1/30 HP)	Single-Phase 220/230 VAC	SCM425A-EC	\$98.00
40 W	Single-Phase 110/115 VAC	SCM540A-UA	\$112.00
(1/19 HP)	Single-Phase 220/230 VAC	SCM540A-EC	\$115.00
60 W	Single-Phase 110/115 VAC	SCM560A-UA	\$128.00
(1/12 HP)	Single-Phase 220/230 VAC	SCM560A-EC	\$132.00
90 W	Single-Phase 110/115 VAC	SCM590A-UA	\$145.00
(1/8 HP)	Single-Phase 220/230 VAC	SCM590A-EC	\$150.00

Output Power	Power Supply Voltage	Product Name	List Price
6 W	Single-Phase 110/115 VAC	DSCD6UA	\$125.00
(1/125 HP)	Single-Phase 220/230 VAC	DSCD6EC	\$125.00
15 W	Single-Phase 110/115 VAC	DSCD15UA	\$125.00
(1/50 HP)	Single-Phase 220/230 VAC	DSCD15EC	\$125.00
25 W	Single-Phase 110/115 VAC	DSCD25UA	¢105.00
(1/30 HP)	Single-Phase 220/230 VAC	DSCD25EC	\$125.00
40 W	Single-Phase 110/115 VAC	DSCD40UA	#10F 00
(1/19 HP)	Single-Phase 220/230 VAC	DSCD40EC	\$125.00
60 W	Single-Phase 110/115 VAC	DSCD60UA	\$126.00
(1/12 HP)	Single-Phase 220/230 VAC	DSCD60EC	\$120.00
90 W	Single-Phase 110/115 VAC	DSCD90UA	¢107.00
(1/8 HP)	Single-Phase 220/230 VAC	DSCD90EC	\$127.00

Connection Cables



Length	Product Name	List Price
1 m (3.3 ft.)	CC01SC	\$35.00
2 m (6.6 ft.)	CC02SC	\$39.00
3 m (9.8 ft.)	CC03SC	\$49.00
5 m (16.4 ft.)	CC05SC	\$68.00
10 m (32.8 ft.)	CC10SC	\$116.00

• Flexible Connection Cables



Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCR	\$68.00
2 m (6.6 ft.)	CC02SCR	\$78.00
3 m (9.8 ft.)	CC03SCR	\$97.00
5 m (16.4 ft.)	CC05SCR	\$135.00
10 m (32.8 ft.)	CC10SCR	\$231.00

Included

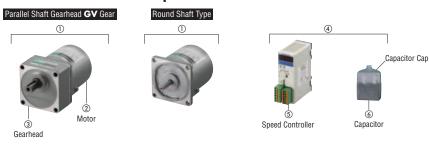
Motor

Туре	Parallel Key	Installation Screws	Operating Manual
Parallel Shaft Gearhead GV Gear	1 pc.	1 Set	1 Conv
Round Shaft Type	_	_	1 Copy

Speed Controller

Capacitor	Capacitor Cap	Operating Manual
1 pc.	1 pc.	1 Copy

List of Motor and Speed Controller Combinations



Parallel Shaft Gearhead GV Gear

			Speed Control Motor			Speed Contro	oller	
Output Power	Power Supply Voltage	Product Name	Component Produ	ict Name	Product Name	Compo	nent Product Name	
		1)	2	3	4	(5)	6	
	Single-Phase 100 VAC	SCM26JA-□	SCM26GV-JA		DSCD6JA		CH35FAUL2	
6 W	Single-Phase 200 VAC	SCM26JC-□	SCM26GV-JC	 2GV□B	DSCD6JC	1	CH08BFAUL	
(1/125 HP)	Single-Phase 110/115 VAC	SCM26UA-□	SCM26GV-UA	ZGVUB	DSCD6UA		CH25FAUL2	
	Single-Phase 220/230 VAC	SCM26EC-□	SCM26GV-EC		DSCD6EC	1	CH06BFAUL	
	Single-Phase 100 VAC	SCM315JA-□	SCM315GV-JA		DSCD15JA		CH55FAUL2	
15 W	Single-Phase 200 VAC	SCM315JC-□	SCM315GV-JC	∃ 3GV□B	DSCD15JC	1	CH15BFAUL	
(1/50 HP)	Single-Phase 110/115 VAC	SCM315UA-□	SCM315GV-UA	– 3GV⊔B	DSCD15UA		CH45FAUL2	
	Single-Phase 220/230 VAC	SCM315EC-□	SCM315GV-EC		DSCD15EC	1	CH10BFAUL	
	Single-Phase 100 VAC	SCM425JA-□	SCM425GV-JA		DSCD25JA		CH80CFAUL2	
25 W	Single-Phase 200 VAC	SCM425JC-□	SCM425GV-JC	- 4GV□B	DSCD25JC	1	CH20BFAUL	
(1/30 HP)	Single-Phase 110/115 VAC	SCM425UA-□	SCM425GV-UA	– 4GV⊔B	DSCD25UA	1	CH65CFAUL2	
	Single-Phase 220/230 VAC	SCM425EC-□	SCM425GV-EC		DSCD25EC	DCCII	CH15BFAUL	
	Single-Phase 100 VAC	SCM540JA-□			DSCD40JA	DSC-U	CH110CFAUL2	
40 W	Single-Phase 200 VAC	SCM540JC-□	SCM540GV-JC		DSCD40JC		CH30BFAUL	
(1/19 HP)	Single-Phase 110/115 VAC	SCM540UA-□	SCM540GV-UA	– 5GV□B	DSCD40UA	1	CH90CFAUL2	
25 W Sir (1/30 HP) Sir 40 W (1/19 HP) Sir Sir Sir Sir Sir Sir 40 W Sir (1/19 HP)	Single-Phase 220/230 VAC	SCM540EC-□	SCM540GV-EC		DSCD40EC		CH23BFAUL	
	Single-Phase 100 VAC	SCM560JA-□	SCM560GVH-JA		DSCD60JA	1	CH180CFAUL2	
60 W	Single-Phase 200 VAC	SCM560JC-□	SCM560GVH-JC	5GVH□B	DSCD60JC		CH40BFAUL	
(1/12 HP)	Single-Phase 110/115 VAC	SCM560UA-□	SCM560GVH-UA	_ 3GVH□B	DSCD60UA	1	CH120CFAUL2	
	Single-Phase 220/230 VAC	SCM560EC-□	SCM560GVH-EC		DSCD60EC	1	CH30BFAUL	
	Single-Phase 100 VAC	SCM590JA-□	SCM590GVR-JA		DSCD90JA	1	CH280CFAUL2	
90 W	Single-Phase 200 VAC	SCM590JC-□	SCM590GVR-JC	5GVR□B	DSCD90JC	1	CH70BFAUL	
(1/8 HP)	Single-Phase 110/115 VAC	SCM590UA-□	SCM590GVR-UA	- JGVK_B	DSCD90UA	1	CH200CFAUL2	
	Single-Phase 220/230 VAC	SCM590EC-□	SCM590GVR-EC		DSCD90EC	1	CH60BFAUL	

[•] A capacitor and a capacitor cap are included with the speed controller product (product name 4).

Round Shaft Type

		Speed Control Motor	Speed Controller						
Output Power	Power Supply Voltage	Product Name	Product Name	Component Product Name					
		1)	4	(5)	6				
	Single-Phase 100 VAC	SCM26A-JA	DSCD6JA		CH35FAUL2				
6 W	Single-Phase 200 VAC	SCM26A-JC	DSCD6JC		CH08BFAUL				
(1/125 HP)	Single-Phase 110/115 VAC	SCM26A-UA	DSCD6UA		CH25FAUL2				
	Single-Phase 220/230 VAC	SCM26A-EC	DSCD6EC		CH06BFAUL				
	Single-Phase 100 VAC	SCM315A-JA	DSCD15JA		CH55FAUL2				
15 W	Single-Phase 200 VAC	SCM315A-JC	DSCD15JC		CH15BFAUL				
(1/50 HP)	Single-Phase 110/115 VAC	SCM315A-UA	DSCD15UA		CH45FAUL2				
	Single-Phase 220/230 VAC	SCM315A-EC	DSCD15EC		CH10BFAUL				
	Single-Phase 100 VAC	SCM425A-JA	DSCD25JA		CH80CFAUL2				
25 W	Single-Phase 200 VAC	SCM425A-JC	DSCD25JC		CH20BFAUL				
(1/30 HP)	Single-Phase 110/115 VAC	SCM425A-UA	DSCD25UA		CH65CFAUL2				
	Single-Phase 220/230 VAC	SCM425A-EC	DSCD25EC	DSC-U	CH15BFAUL				
	Single-Phase 100 VAC	SCM540A-JA	DSCD40JA	D3C-0	CH110CFAUL				
40 W	Single-Phase 200 VAC	SCM540A-JC	DSCD40JC		CH30BFAUL				
(1/19 HP)	Single-Phase 110/115 VAC	SCM540A-UA	DSCD40UA		CH90CFAUL2				
	Single-Phase 220/230 VAC	SCM540A-EC	DSCD40EC		CH23BFAUL				
	Single-Phase 100 VAC	SCM560A-JA	DSCD60JA		CH180CFAUL				
60 W	Single-Phase 200 VAC	SCM560A-JC	DSCD60JC		CH40BFAUL				
(1/12 HP)	Single-Phase 110/115 VAC	SCM560A-UA	DSCD60UA		CH120CFAUL				
	Single-Phase 220/230 VAC	SCM560A-EC	DSCD60EC		CH30BFAUL				
	Single-Phase 100 VAC	SCM590A-JA	DSCD90JA		CH280CFAUL				
90 W	Single-Phase 200 VAC	SCM590A-JC	DSCD90JC		CH70BFAUL				
(1/8 HP)	Single-Phase 110/115 VAC	SCM590A-UA	DSCD90UA		CH200CFAUL				
	Single-Phase 220/230 VAC	SCM590A-EC	DSCD90EC	1	CH60BFAUL				

[•] A capacitor and a capacitor cap are included with the speed controller product (product name 4).

A capacitor cap is not included with the capacitor product (product name ⑥).

A capacitor cap is not included with the capacitor product (product name (6)).

 $[\]blacksquare$ A number indicating the gear ratio is specified where the box \Box is located within the product name.

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Electromagnetic Brake

■ Specifications - Continuous Rating

Single-Phase 100 VAC, Single-Phase 200 VAC

Product Nam	ie	Maximum		_	Variable	Permissible To	orque	Starting		Power			
Upper Line: Parallel Shaft Gearhead		Output Power	Voltage	Frequency	Speed Range	1450 r/min (60 Hz)	90 r/min	Torque	Current	Consumption	Capacitor	Motor Overheat	
GV Gear Lower Line: Round Shaft	Speed Controller					mN·m (oz-in)	mN·m (oz-in)	mN·m (oz-in)				Protection Device	
Туре		W (HP)	VAC	Hz	r/min	` ′	` ' ` '		A	W	μF		
SCM26JA-□ SCM26A-JA	DSCD6JA	0 (4 (4.05)	Single-Phase 100	50 60	90 to 1400 90 to 1600	50 (7.1) 45 (6.3)	50 (7.1) 45 (6.3)	45 (6.3) 40 (5.6)	0.29	26	3.5	ZP	
SCM26JC-□		6 (1/125)	Single-Phase	50	90 to 1400	44 (6.2)	50 (7.1)						
SCM26A-JC	DSCD6JC		200	60	90 to 1600	46 (6.5)	46 (6.5)	45 (6.3)	0.140	27	0.8	ZP	
SCM315JA-□			Single-Phase	50	90 to 1400	125 (17.7)	52 (7.3)	88 (12.4)		42			
SCM315A-JA	DSCD15JA	4.5 (4.650)	100	60	90 to 1600	115 (16.3)	54 (7.6)	90 (12.7)	0.50	45	5.5	TP	
SCM315JC-□	DECEDITIO	15 (1/50)	Single-Phase	50	90 to 1400	125 (17.7)	FO (7.0)	00 (40.7)	0.05	42	4.5	TD	
SCM315A-JC	DSCD15JC		200	60	90 to 1600	120 (17.0)	56 (7.9)	90 (12.7)	0.25	45	1.5	TP	
SCM425JA-□	DECEDOFIA		Single-Phase	50	90 to 1400	205 (29)	FF (7.0)	130 (18.4)	0.75	62	0.0	TP	
SCM425A-JA	DSCD25JA	05 (4 (00)	100	60	90 to 1600	200 (28)	55 (7.8)	135 (19.1)	0.75	66	8.0	IP IP	
SCM425JC-□	DSCD25JC	25 (1/30)	Single-Phase	50	90 to 1400	205 (29)	FF (7.0)	100 (17.0)	0.00	67	0.0	TP	
SCM425A-JC	DSCD25JC				200	60	90 to 1600	200 (28)	55 (7.8)	120 (17.0)	0.38	07	2.0
SCM540JA-□	DSCD40JA		Single-Phase	50	90 to 1400	320 (45)	80 (11.3)	180 (25)	1.1	92	11	TP	
SCM540A-JA	D3CD4UJA	40 (1/10)	100	60	90 to 1600	300 (42)	00 (11.3)	190 (26)	1.1	101	11	IP IP	
SCM540JC-□	DSCD40JC	40 (1/19)	Single-Phase	50	90 to 1400	320 (45)	90 (12.7)	190 (26)	0.57	94	3.0	TP	
SCM540A-JC	D3CD40JC		200	60	90 to 1600	320 (43)	90 (12.7)	190 (20)	0.57	100	3.0	I I I	
SCM560JA-□	DSCD60JA		Single-Phase	50	90 to 1400	490 (69)	110 (15.6)	320 (45)	1.6	128	18	TP	
SCM560A-JA	D3CD00JA	60 (1/12)	100	60	90 to 1600	450 (63)	110 (15.0)	330 (46)	1.0	140	10	IF.	
SCM560JC-□	DSCD60JC	00 (1/12)	Single-Phase	50	90 to 1400	490 (69)	90 (12.7)	320 (45)	0.76	128	4.0	TP	
SCM560A-JC	рэсроозс		200	60	90 to 1600	430 (61)	100 (14.2)	340 (48)	0.78	140	4.0	i r	
SCM590JA-□	DSCD90JA		Single-Phase	50	90 to 1400	730 (103)	110 (15 6)	470 (66)	2.4	195	28	TP	
SCM590A-JA	DSCD90JA	90 (1/8)	100	60	90 to 1600	720 (102)	110 (15.6)	. (,	2.6	217	20	111	
SCM590JC-□	DSCD90JC	30 (1/0)	Single-Phase 200 60 90 to 1400 730 (103) 120 (17.0) 480 (68) 110 (15.6) 510 (72)		480 (68)	1.2	198	7.0	TP				
SCM590A-JC	D3CD703C				110 (15.6)	510 (72) 1.3		221		7.0			

[•] The values in the table are characteristics for the motor only. The valuable speed ranges shown are under no load conditions.

ZP: This indicates that it is impedance protected.

TP: This indicates that there is a built-in thermal protector (automatic return type).

Single-Phase 110/115 VAC, Single-Phase 220/230 VAC



					Mariabla	Permissible To	orano											
Product Na	ame	Maximum Output	Voltage	Frequency	Variable Speed	1200 r/min (50 Hz)	lique	Starting		Douger								
Upper Line: Parallel Shaft		Power	voltage	rioquonoy	Range	1450 r/min (60 Hz)	90 r/min	Torque	Current	Power Consumption	Canacitor	Motor						
Gearhead					95	1430 1/11111 (00 112)			Ourient	Consumption	σαραστισι	Overheat Protection						
GV Gear	Speed Controller					mN·m	mN⋅m	mN⋅m				Device						
Lower Line: Round Shaft	Controller					(oz-in)	(oz-in)	(oz-in)			_	201.00						
Туре		W (HP)	VAC	Hz	r/min				A	W	μF							
			Single-Phase															
SCM26UA-□ SCM26A-UA	DSCD6UA		110	60	90 to 1600	50 (7.1)	38 (5.3)	40 (5.6)	0.28	29	2.5	ZP						
JCM20A-0A			Single-Phase 115															
		6 (1/125)	Single-Phase	50	90 to 1400	42 (5.9)												
SCM26EC-□			220	60	90 to 1600	46 (6.5)	40 (5.6)	44 (6.2)										
SCM26A-EC	DSCD6EC		Single-Phase	50	90 to 1400	46 (6.5)	37 (5.2)	44 (6.2)	0.135	29	0.6	ZP						
			230	60	90 to 1600	50 (7.1)	39 (5.5)	50 (7.1)	-									
			Single-Phase			, ,	30 (0.0)											
SCM315UA-□			110			120 (17.0)		84 (11.9)										
SCM315A-UA	DSCD15UA		Single-Phase	- 60	90 to 1600	105 (17.7)	45 (6.3)	00 (10 7)	0.48	46	4.5	TP						
		45 (4 (50)	115			125 (17.7)		90 (12.7)										
		15 (1/50)	Single-Phase	50	90 to 1400	125 (17.7)		67 (0.5)	İ	43	İ							
SCM315EC-□	DSCD15EC		220	60	90 to 1600	110 (15.6)	40 (5.0)	67 (9.5)	0.00	46	1.0	TP						
SCM315A-EC	DSCDISEC		Single-Phase	50	90 to 1400	125 (17.7)	40 (5.6)	72 (10.2)	0.23	44	1.0	I IP						
			230	60	90 to 1600	120 (17.0)]	81 (11.5)]	47]							
			Single-Phase					125 (17.7)		58								
SCM425UA-□	DSCD25UA		110	60	90 to 1600	205 (29)	45 (6.3)	123 (17.7)	0.75	30	6.5	TP						
SCM425A-UA	DSCDISOA		Single-Phase	00	30 to 1000	200 (20)	40 (0.0)	135 (19.1)	0.75	69	0.5							
		25 (1/30)	115					100 (10.1)		00								
		()	Single-Phase	50	90 to 1400			110 (15.6)										
SCM425EC-	DSCD25EC		220	60	90 to 1600	205 (29)	40 (5.6)	, ,	0.37	70	1.5	TP						
SCM425A-EC			Single-Phase 230	50	90 to 1400			120 (17.0)										
				60	90 to 1600													
COME 40114 -			Single-Phase 110	- 60	90 to 1600	320 (45)		180 (25)		107	9.0							
SCM540UA-□ SCM540A-UA	DSCD40UA						70 (9.9)		1.1			TP						
JUNION ON			Single-Phase 115					190 (26)										
		40 (1/19)	Single-Phase	50	90 to 1400		65 (9.2)			96								
SCM540EC-□	EC-□		FC-		December		DECDAGE		220	60	90 to 1600		70 (9.9)			104	-	
SCM540A-EC	DSCD40EC		Single-Phase	50	90 to 1400	320 (45)	65 (9.2)	190 (26)	0.55	99	2.3	TP						
			230	60	90 to 1600		70 (9.9)			105	1							
			Single-Phase			460 (05)	` ′	000 (00)										
SCM560UA-□	DSCD60UA		110	60	90 to 1600	460 (65)	90 (11 3)	260 (36)	1.5	144	12	TP						
SCM560A-UA	DSCDOUGA		Single-Phase	00	90 10 1600	490 (69)	80 (11.3)	280 (39)	1.5	145	1 12	IP						
		60 (1/12)	115			490 (09)		200 (39)		143								
		30 (1/12)	Single-Phase	50	90 to 1400	490 (69)	80 (11.3)	280 (39)	0.71	129								
SCM560EC-□	DSCD60EC		220	60	90 to 1600	460 (65)	75 (10.6)	290 (41)	0.74	143	3.0	TP						
SCM560A-EC	20020020		Single-Phase	50	90 to 1400	490 (69)	85 (12.0)	290 (41)	0.72	132								
			230	60	90 to 1600	(,	80 (11.3)	300 (42)	0.74	144								
			Single-Phase					400 (56)	2.4	224								
SCM590UA-	DSCD90UA		110	60	90 to 1600	730 (103)	85 (12.0)	` ′			20	TP						
SCM590A-UA			Single-Phase			, ,	, ,	440 (62)	2.5	227		IF.						
		90 (1/8)		115 F0 00 to 1400		00		400 (60)	1.0	201								
SCMEOOFS -			Single-Phase	50	90 to 1400 90 to 1600	-		490 (69)	1.2	201	-							
SCM590EC-□ SCM590A-EC	DSCD90EC			90 to 1600	730 (103) 95 (1		500 (71) 520 (73)	1.3	226 204	6.0	TP							
JUNIU 7 VM-EC	DOCDAOFC		Single-Phase 230	J	90 to 1400	-		520 (73)	1.2	204								
The continue to the table one		1		00	30 10 1000	l .	I.	330 (73)	1.0	220								

[●] The values in the table are characteristics for the motor only. The valuable speed ranges shown are under no load conditions.

 $[\]ensuremath{\mathsf{ZP}}\xspace$ This indicates that it is impedance protected.

TP: This indicates that there is a built-in thermal protector (automatic return type).

Features

Right-Angle Shaft

Electromagnetic Brake

	Item	Specifications							
Speed Setting Metho	od	The speed of the motor output shaft can be set using any of the following methods: Using operation panel Up to four types of operation data can be set. Using an external speed potentiometer Using external DC voltage: 0 to 5 VDC, or 0 to 10 VDC							
Acceleration Time ar	nd Deceleration Time Setting Range	0.0 to 15.0 s The motor acceleration time and deceleration time vary depending on the load condition.							
	Monitor Mode	Speed, Operation Data No., Alarm Code, Warning Code, I/O Monitor							
	Data Mode	Speed, Accelerating Time, Decelerating Time, Initialization							
unctions	Parameter Mode	Speed Reduction Ratio, Speed Increasing Ratio, Lowest Digit Display Fixed, Prevention of Operation at Power-on Alarm, External Speed Command Input, External Speed Command Voltage Selection, External Speed Command OffSet, Speed Upper and Lower Limit, Input Function Selection, Output Function Selection, Motor Lock Detection Time, Motor Rotation Direction, Initialization							
	Test Mode	JOG Operation							
	Other Function	Prohibiting Data Editing							
Control Power Suppl	ly	24 VDC ±10% 0.15 A min.							
Input Signals		Photocoupler Input, Input Resistance: $4.7 \text{ k}\Omega$ Signal assignment to INO to IN5 inputs (6 points) is possible as desired. []: Initial Setting [FWD], [REV], [M0], [M1], [ALARM-RESET], [FREE], EXT-ERROR Source input or sink input can be switched using the selection switch. Factory Setting: Sink Input							
Output Signals		Photocoupler and Open-Collector Output, External Power Supply: 4.5 to 30 VDC, 40 mA max. Signal assignment to OUT0 and OUT1 outputs (2 points) is possible as desired. []: Initial Setting [SPEED-OUT], [ALARM-OUT], TH-OUT, WNG Source output or sink output can be switched by changing the external wiring.							
Protective Function		When any of the following protective functions is activated, the motor will coast to a stop. Then the ALARM output will be turned off. At the same, the alarm code will be displayed on the control panel and the ALARM LED will be lit. Alarm Types: Motor Overheat, Motor Lock, Overspeed, EEPROM Error, Prevention of Operation at Power-On, External Stop							
Maximum Extension	Length	Between the motor and the speed controller: 10 m (32.8 ft.)							

■General Specifications

nsulation Res	sistance	$100~\text{M}\Omega$ or more when 500 VDC megger is applied between the windings and the case after continuous operation under normal ambient temperature and humidity.	$100~\text{M}\Omega$ or more when $500~\text{VDC}$ megger is applied between the following places after continuous operation under normal ambient temperature and					
Dielectric Stre	ength	Sufficient to withstand 1.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.	Sufficient to withstand the following for 1 minute after continuous operation under normal ambient temperature and humidity: • Main Circuit Terminal - Control Circuit Terminal 1.9 kVAC at 50 Hz or 60 Hz • Main Circuit Terminal - Case 1.9 kVAC at 50 Hz or 60 Hz • Main Circuit Terminal - FG 1.5 kVAC at 50 Hz or 60 Hz					
Temperature	Rise	In a state where the motor is attached to a gearhead or a heat sink *1 equivalent to the gearhead, the temperature rise of the windings is 80°C (176°F) or less measured by the resistance change method after no-load continuous operation under normal ambient temperature and humidity.	_					
Overheat Prot	tection Device	6 W (1/125 HP) Type: Impedance Protected Others: Thermal Protector Built-in (Automatic Return Type) Open: 130±5°C (266±9°F) Close: 85±20°C (185±36°F)	y -					
Operating	Ambient Temperature	Single-Phase 100 VAC, Single-Phase 200 VAC: -10 to $+50^{\circ}$ C ($+14$ to $+122^{\circ}$ F) (Non-freezing) Single-Phase 110/115 VAC, Single-Phase 220/230 VAC: -10 to $+40^{\circ}$ C ($+14$ to $+104^{\circ}$ F) (Non-freezing) For gearheads gear ratios $\bf 2$ and $\bf 3$, the lower limit temperature is 0° C ($+32^{\circ}$ F).	0 to +50°C (+32 to +122°F) (Non-freezing)					
	Ambient Humidity	85% or less (No	on-condensing)					
•	Altitude	Up to 1000 m (3300	ft.) above sea level					
	Surrounding Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids. Ca						
	Vibration	Not subject to continuous vibrations or excessive impact. In conf Frequency Range: 10 to 55 Hz, Pulsating Amplitude: 0.15 mm (0.006 in.						
	Ambient Temperature	−25 to +70°C (−13 to	+158°F) (Non-freezing)					
Storage	Ambient Humidity	85% or less (No						
Condition*2	Altitude	Up to 3000 m (10000	,					
	Surrounding Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids. Co	annot be used in radioactive materials, magnetic field, vacuum or other special environments.					
Thermal Class	-	130 (B)	-					
Degree of Pro	otection	IP20	IP20					

*1 Heat radiation plate (Material: Aluminum)

Motor Output Power	Size mm (in.)	Thickness mm (in.)
6 W (1/125 HP)	115×115 (4.53×4.53)	
15 W (1/50 HP)	125×125 (4.92×4.92)	
25 W (1/30 HP)	135×135 (5.31×5.31)	5 (0.20)
40 W (1/19 HP)	165×165 (6.50×6.50)	3 (0.20)
60 W (1/12 HP)	200×200 (7.87×7.87)	
90 W (1/8 HP)	200×200 (7.87×7.87)	

 $[\]underline{\hbox{$\star2 Storage}}$ conditions represent a short period, including transportation.

Note

[■] Do not measure insulation resistance or perform the dielectric voltage test while the motor and speed controller are connected.

Output Shaft Speed

Motor Shaft Speed

Low speed: 90 r/min, High speed at 50 Hz: 1400 r/min, High speed at 60 Hz: 1600 r/min

Unit: r/min

Gear Ra	atio	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
High Chood	50 Hz	700	466	280	233	186	155	112	93	77	56	46	38	28	23	18.6	15.5	14	11.6	9.3	7.7	5.6	4.6	3.8
High Speed	60 Hz	800	533	320	266	213	177	128	106	88	64	53	44	32	26	21	17.7	16	13.3	10.6	8.8	6.4	5.3	4.4
Low Speed		45	30	18	15	12	10	7.2	6	5	3.6	3	2.5	1.8	1.5	1.2	1	0.9	0.75	0.6	0.5	0.36	0.3	0.25

Permissible Torque

- A colored background indicates gear shaft rotation in the same direction as the motor shaft, while the others rotate in the opposite direction
- lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

Single-Phase 100 VAC

Unit: N·m (lb-in)

Single-Pha			,																				·	JUIT: IN·F	n (lb-in)																				
Product Name	Motor	r Ratio Shaft r/min	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360																				
	1200	50 Hz	0.070 (0.61)	0.12 (1.06)	0.23 (2.0)	0.27 (2.3)	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)																				
SCM26JA-□	1450	60 Hz	0.063 (0.55)		0.20 (1.77)	0.24 (2.1)	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)	6 (53)																				
JCM20JA-	90	50 Hz	0.070 (0.61)	0.12 (1.06)	0.23 (2.0)	0.27 (2.3)	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)																				
	30	60 Hz	0.063 (0.55)	0.10 (0.88)	0.20 (1.77)	0.24 (2.1)	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)	6 (53)																				
	1200	50 Hz	0.18 (1.59)	0.30 (2.6)	0.56 (4.9)	0.68 (6.0)	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	SCM315JA-□	1450	60 Hz	0.16 (1.41)	0.28 (2.4)	0.52 (4.6)	0.62 (5.4)	0.78 (6.9)	0.93 (8.2)	1.3 (11.5)	1.6 (14.1)	1.9 (16.8)	2.6 (23)	3.0 (26)	3.6 (31)	4.9 (43)	5.9 (52)	7.4 (65)	8.9 (78)	9.9 (87)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
Jemo I JJA-	90	50 Hz	0.073 (0.64)		0.23 (2.0)	0.28 (2.4)	0.35 (3.0)	0.42 (3.7)	0.59 (5.2)	0.70 (6.1)	0.84 (7.4)	1.2 (10.6)	1.3 (11.5)	1.6 (14.1)	2.2 (19.4)	2.7 (23)	3.4 (30)	4.0 (35)	4.5 (39)	5.4 (47)	6.3 (55)	7.6 (67)	10 (88)	10 (88)	10 (88)																				
	30	60 Hz	0.076 (0.67)	0.13 (1.15)	0.24 (2.1)	0.29 (2.5)	0.36 (3.1)	0.44 (3.8)	0.61 (5.3)	0.73 (6.4)	0.87 (7.6)	1.2 (10.6)	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.5 (30)	4.2 (37)	4.6 (40)	5.6 (49)	6.6 (58)	7.9 (69)	10 (88)	10 (88)	10 (88)																				
	1200	50 Hz	0.32 (2.8)	0.50 (4.4)	0.92 (8.1)	1.1 (9.7)	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.3 (29)	4.6 (40)	5.3 (46)	6.3 (55)	8.8 (77)	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)																				
SCM425JA-□	1450	60 Hz	0.31 (2.7)	0.49 (4.3)	0.90 (7.9)	1.1 (9.7)	1.4 (12.3)	1.6 (14.1)	2.3 (20)	2.7 (23)	3.2 (28)	4.5 (39)	5.2 (46)	6.2 (54)	8.6 (76)	10.3 (91)	12.9 (114)	15.5 (137)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)																				
		90	0.070 (0.61)	0.12 (1.06)	0.25 (2.2)	0.30 (2.6)	0.37 (3.2)	0.45 (3.9)	0.62 (5.4)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.5 (30)	4.3 (38)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	11.1 (98)	13.4 (118)	16 (141)																				
	1200	50 Hz	0.50 (4.4)	0.78 (6.9)	1.4 (12.3)	1.7 (15.0)	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_																				
SCM540JA-□	1450	60 Hz	0.47 (4.1)	0.73 (6.4)	1.4 (12.3)	1.6 (14.1)	2.0 (17.7)	2.4 (21)	3.4 (30)	4.1 (36)	4.9 (43)	6.5 (57)	7.7 (68)	9.3 (82)	12.9 (114)	15.5 (137)	19.4 (171)	23.2 (200)	25.8 (220)	29.2 (250)	30 (260)	30 (260)	30 (260)	30 (260)																					
		90	0.12 (1.06)	0.19 (1.68)	0.36 (3.1)	0.43 (3.8)	0.54 (4.7)	0.65 (5.7)	0.90 (7.9)	1.1 (9.7)	1.3 (11.5)	1.7 (15.0)	2.1 (18.5)	2.5 (22)	3.4 (30)	4.1 (36)	5.2 (46)	6.2 (54)	6.9 (61)	7.8 (69)	9.7 (85)	11.7 (103)	16.2 (143)	19.4 (171)	-																				
	1200	50 Hz	0.79 (6.9)	1.2 (10.6)	2.2 (19.4)	2.6 (23)	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-																				
SCM560JA-□	1450	60 Hz	0.73 (6.4)	1.1 (9.7)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	5.1 (45)	6.1 (53)	7.3 (64)	9.7 (85)	11.6 (102)	13.9 (123)	19.4 (171)	23.2 (200)	29.0 (250)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)																					
		90	0.16 (1.41)	0.27 (2.3)	0.50 (4.4)	0.59 (5.2)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.5 (13.2)	1.8 (15.9)	2.4 (21)	2.8 (24)	3.4 (30)	4.7 (41)	5.7 (50)	7.1 (62)	8.5 (75)	9.5 (84)	10.7 (94)	13.4 (118)	16.0 (141)	22.3 (197)	26.7 (230)	-																				
	1200	50 Hz	1.2 (10.6)	1.8 (15.9)	3.3 (29)	3.9 (34)	4.9 (43)	5.9 (52)	8.2 (72)	9.9 (87)	11.3 (100)	15.7 (138)	18.8 (166)	22.6 (200)	31.4 (270)	37.7 (330)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	_																				
SCM590JA-□	1450	60 Hz	1.2 (10.6)	1.7 (15.0)	3.2 (28)	3.9 (34)	4.9 (43)	5.8 (51)	8.1 (71)	9.7 (85)	11.1 (98)	15.5 (137)	18.6 (164)	22.3 (197)	31.0 (270)	37.2 (320)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	-																				
		90	0.16 (1.41)	0.23 (2.0)	0.50 (4.4)	0.59 (5.2)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.5 (13.2)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.4 (30)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	8.9 (78)	10.7 (94)	13.4 (118)	16 (141)	_	_	_																				

	Gea	ar Ratio																							
Product Name		Shaft	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
	Speed	l r/min \																							
	1200	50 Hz	0.062 (0.54)		0.20 (1.77)	0.24 (2.1)	0.30 (2.6)	0.36 (3.1)	0.50 (4.4)	0.59 (5.2)	0.71 (6.2)	0.99 (8.7)	1.1 (9.7)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.4 (30)	3.8 (33)	4.5 (39)	5.3 (46)	6 (53)	6 (53)	6 (53)	6 (53)
SCM26JC-□	1450	60 Hz	0.064 (0.56)	0.11 (0.97)	0.21 (1.85)	0.25 (2.2)	0.31 (2.7)	0.37 (3.2)	0.52 (4.6)	0.62 (5.4)	0.75 (6.6)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	4.0 (35)	4.7 (41)	5.6 (49)	6 (53)	6 (53)	6 (53)	6 (53)
3CM20JC-	90	50 Hz	0.070 (0.61)	-	0.23 (2.0)	0.27 (2.3)	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
	90	60 Hz	0.064 (0.56)		0.21 (1.85)	0.25 (2.2)	0.31 (2.7)	0.37 (3.2)	0.52 (4.6)	0.62 (5.4)	0.75 (6.6)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	4.0 (35)	4.7 (41)	5.6 (49)	6 (53)	6 (53)	6 (53)	6 (53)
	1200	50 Hz	0.18 (1.59)	0.30 (2.6)	0.56 (4.9)	0.68 (6.0)	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315JC-□	1450	60 Hz	0.17 (1.50)	0.29 (2.5)	0.54 (4.7)	0.65 (5.7)	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
		90	0.078 (0.69)	0.14 (1.23)	0.25 (2.2)	0.30 (2.6)	0.38 (3.3)	0.45 (3.9)	0.63 (5.5)	0.76 (6.7)	0.91 (8.0)	1.3 (11.5)	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.9 (25)	3.6 (31)	4.3 (38)	4.8 (42)	5.8 (51)	6.8 (60)	8.2 (72)	10 (88)	10 (88)	10 (88)
	1200	50 Hz	0.32 (2.8)	0.50 (4.4)	0.92 (8.1)	1.1 (9.7)	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.3 (29)	4.6 (40)	5.3 (46)	6.3 (55)	8.8 (77)	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141
SCM425JC-□	1450	60 Hz	0.31 (2.7)	0.49 (4.3)	0.90 (7.9)	1.1 (9.7)	1.4 (12.3)	1.6 (14.1)	2.3 (20)	2.7 (23)	3.2 (28)	4.5 (39)	5.2 (46)	6.2 (54)	8.6 (76)	10.3 (91)	12.9 (114)	15.5 (137)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141
		90	0.070 (0.61)	0.12 (1.06)	0.25 (2.2)	0.30 (2.6)	0.37 (3.2)	0.45 (3.9)	0.62 (5.4)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.5 (30)	4.3 (38)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	11.1 (98)	13.4 (118)	16 (141
	1200 1450	50 Hz 60 Hz	0.50 (4.4)	0.78 (6.9)	1.4 (12.3)	1.7 (15.0)	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
SCM540JC-□		90	0.13 (1.15)	0.22 (1.94)	0.41 (3.6)	0.49 (4.3)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	8.7 (76)	10.9 (96)	13.1 (115)	18.2 (161)	21.9 (193)	-
	1200	50 Hz	0.79 (6.9)	1.2 (10.6)	2.2 (19.4)	2.6 (23)	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
SCM560JC-□	1450	60 Hz	0.70 (6.1)	1.0 (8.8)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	4.8 (42)	5.8 (51)	7.0 (61)	9.2 (81)	11.1 (98)	13.3 (117)	18.5 (163)	22.2 (196)	27.7 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
SCM2001C-□	00	50 Hz	0.13 (1.15)	0.22 (1.94)	0.41 (3.6)	0.49 (4.3)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	8.7 (76)	10.9 (96)	13.1 (115)	18.2 (161)	21.9 (193)	-
	90	60 Hz	0.14 (1.23)	0.24 (2.1)	0.45 (3.9)	0.54 (4.7)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.4 (12.3)	1.6 (14.1)	2.2 (19.4)	2.6 (23)	3.1 (27)	4.3 (38)	5.2 (46)	6.5 (57)	7.7 (68)	8.6 (76)	9.7 (85)	12.2 (107)	14.6 (129)	20.3 (179)	24.3 (210)	-
	1200	50 Hz	1.2	1.8	3.3	3.9	4.9	5.9	8.2	9.9	11.3	15.7	18.8	22.6	31.4	37.7	40	40	40	40	40	40			
	1450	60 Hz	(10.6)		(29)	(34)	(43)	(52)	(72)	(87)	(100)	(138)	(166)	(200)	(270)	(330)	(350)	(350)	(350)	(350)	(350)	(350)			_
SCM590JC-□	90	50 Hz	0.17 (1.50)	0.26 (2.3)	0.54 (4.7)	0.65 (5.7)	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.6 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.3 (64)	8.7 (76)	9.7 (85)	11.7 (103)	14.6 (129)	17.5 (154)	_	-	-
	30	60 Hz	0.16 (1.41)	0.23 (2.0)	0.50 (4.4)	0.59 (5.2)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.5 (13.2)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.4 (30)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	8.9 (78)	10.7 (94)	13.4 (118)	16 (141)	-	_	_

Single-Phase 110/115 VAC

Unit: N·m (lb-in)

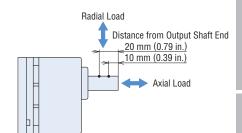
	Gea	r Ratio																							
Product Name	Motor Speed	1	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
SCM26UA-□	1	450	0.070 (0.61)	0.12 (1.06)	0.23 (2.0)	0.27 (2.3)	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
SCM200A-		90	0.053 (0.46)	0.088 (0.77)	0.17 (1.50)	0.21 (1.85)	0.26 (2.3)	0.31 (2.7)	0.43 (3.8)	0.51 (4.5)	0.62 (5.4)	0.86 (7.6)	0.98 (8.6)	1.2 (10.6)	1.6 (14.1)	2.0 (17.7)	2.5 (22)	2.9 (25)	3.3 (29)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)
	1450	110 VAC	0.17 (1.50)	0.29 (2.5)	0.54 (4.7)	0.65 (5.7)	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315UA-□	1430	115 VAC	0.18 (1.59)	0.30 (2.6)	0.56 (4.9)	0.68 (6.0)	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
		90	0.063 (0.55)	0.11 (0.97)	0.20 (1.77)	0.24 (2.1)	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6.6 (58)	9.1 (80)	10 (88)	10 (88)
SCM425UA-□	1	450	0.32 (2.8)	0.50 (4.4)	0.92 (8.1)	1.1 (9.7)	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.3 (29)	4.6 (40)	5.3 (46)	6.3 (55)	8.8 (77)	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)
3CM-230A-		90		0.099 (0.87)	0.20 (1.77)	0.24 (2.1)	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6.6 (58)	9.1 (80)	10.9 (96)	13.1 (115
SCM540UA-□	1	450	0.50 (4.4)	0.78 (6.9)	1.4 (12.3)	1.7 (15.0)	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
3CM3400A		90	0.10 (0.88)	0.17 (1.50)	0.32 (2.8)	0.38 (3.3)	0.47 (4.1)	0.57 (5.0)	0.79 (6.9)	0.95 (8.4)	1.1 (9.7)	1.5 (13.2)	1.8 (15.9)	2.2 (19.4)	3.0 (26)	3.6 (31)	4.5 (39)	5.4 (47)	6.0 (53)	6.8 (60)	8.5 (75)	10.2 (90)	14.2 (125)	17.0 (150)	_
	1450	110 VAC	0.75 (6.6)	1.1 (9.7)	2.1 (18.5)	2.5 (22)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.5 (66)	9.9 (87)	11.9 (105)	14.2 (125)	19.8 (175)	23.7 (200)	29.7 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
SCM560UA-□	1430	115 VAC	0.79 (6.9)	1.2 (10.6)	2.2 (19.4)	2.6 (23)	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
		90	0.12 (1.06)	0.19 (1.68)	0.36 (3.1)	0.43 (3.8)	0.54 (4.7)	0.65 (5.7)	0.90 (7.9)	1.1 (9.7)	1.3 (11.5)	1.7 (15.0)	2.1 (18.5)	2.5 (22)	3.4 (30)	4.1 (36)	5.2 (46)	6.2 (54)	6.9 (61)	7.8 (69)	9.7 (85)	11.7 (103)	16.2 (143)	19.4 (171)	_
SCM500IIA.□	1	450	1.2 (10.6)	1.8 (15.9)	3.3 (29)	3.9 (34)	4.9 (43)	5.9 (52)	8.2 (72)	9.9 (87)	11.3 (100)	15.7 (138)	18.8 (166)	22.6 (200)	31.4 (270)	37.7 (330)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	-	_
6CM590UA-□		90	0.12 (1.06)	0.18 (1.59)	0.38 (3.3)	0.46 (4.0)	0.57 (5.0)	0.69 (6.1)	0.96 (8.4)	1.1 (9.7)	1.3 (11.5)	1.8 (15.9)	2.2 (19.4)	2.6 (23)	3.7 (32)	4.4 (38)	5.2 (46)	6.2 (54)	6.9 (61)	8.3 (73)	10.3 (91)	12.4 (109)	_	-	_

Olligic i lic		Ratio																						Jille IV II	, ,,
Product Name	Motor	r Shaft d r/min	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
		220 VAC 50 Hz	0.059 (0.52)	0.10 (0.88)	0.19 (1.68)	0.23 (2.0)	0.28 (2.4)	0.34 (3.0)	0.47 (4.1)	0.57 (5.0)	0.68 (6.0)	0.95 (8.4)	1.1 (9.7)	1.3 (11.5)	1.8 (15.9)	2.2 (19.4)	2.7 (23)	3.3 (29)	3.6 (31)	4.3 (38)	5.1 (45)	6 (53)	6 (53)	6 (53)	6 (53)
	1200	230 VAC 50 Hz	0.064 (0.56)	0.11 (0.97)	0.21 (1.85)	0.25 (2.2)	0.31 (2.7)	0.37 (3.2)	0.52 (4.6)	0.62 (5.4)	0.75 (6.6)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	4.0 (35)	4.7 (41)	5.6 (49)	6 (53)	6 (53)	6 (53)	6 (53)
		220 VAC	0.064	0.11	0.21	0.25	0.31	0.37	0.52	0.62	0.75	1.0	1.2	1.4	2.0	2.4	3.0	3.6	4.0	4.7	5.6	6	6	6	6
SCM26EC-□	1450	60 Hz 230 VAC	0.070	0.12	0.23	0.27	0.34	0.41	(4.6) 0.56	0.68	(6.6)	(8.8)	1.3	1.5	2.2	2.6	3.2	3.9	(35)	5.2	(49)	(53)	(53)	(53)	(53)
Jemzoce 🗆		60 Hz 220 VAC	0.056	(1.06)	(2.0)	0.22	(3.0)	(3.6)	(4.9)	(6.0)	(7.1)	(9.7)	(11.5)	1.2	(19.4)	(23)	(28)	(34)	(38)	(46) 4.1	(53)	(53) 5.8	(53) 6	(53)	(53)
		50/60 Hz 230 VAC	(0.49)	(0.81)	(1.59)	(1.94)	(2.3)	(2.8)	(3.9)	(4.7)	(5.7)	(7.9)	(8.8)	(10.6)	(15.0) 1.6	(18.5)	(23)	(27)	(30)	(36)	(43) 4.5	(51) 5.4	(53) 6	(53)	(53) 6
	90	50 Hz	(0.46)	(0.75)	(1.50)	(1.77)	(2.2)	(2.6)	(3.7)	(4.4)	(5.3)	(7.3)	(8.4)	(9.7)	(14.1)	(16.8)	(21)	(25)	(28)	(33)	(39)	(47)	(53)	(53)	(53)
		230 VAC 60 Hz	0.055 (0.48)	0.090 (0.79)	0.18 (1.59)	0.21 (1.85)	0.26 (2.3)	0.32 (2.8)	0.44 (3.8)	0.53 (4.6)	0.63 (5.5)	0.88 (7.7)	1.0 (8.8)	1.2 (10.6)	1.7 (15.0)	2.0 (17.7)	2.5 (22)	3.0 (26)	3.4 (30)	4.0 (35)	4.7 (41)	5.7 (50)	6 (53)	6 (53)	6 (53)
	1200	50 Hz	0.18 (1.59)	0.30 (2.6)	0.56 (4.9)	0.68 (6.0)	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
		220 VAC 60 Hz	0.15 (1.32)	0.27 (2.3)	0.50 (4.4)	0.59 (5.2)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.5 (13.2)	1.8 (15.9)	2.5 (22)	2.8 (24)	3.4 (30)	4.7 (41)	5.7 (50)	7.1 (62)	8.5 (75)	9.5 (84)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315EC-□	1450	230 VAC 60 Hz	0.17 (1.50)	0.29 (2.5)	0.54 (4.7)	0.65 (5.7)	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
		90	0.056	0.097	0.18	0.22	0.27	0.32	0.45	0.54	0.65	0.90	1.0	1.2	1.7	2.1	2.6	3.1	3.4	4.1	4.9	5.8	8.1	9.7	10
	1200	50 Hz	0.49)	0.50	0.92	1.1	1.4	1.7	(3.9)	2.8	(5.7)	(7.9)	(8.8)	6.3	(15.0) 8.8	(18.5) 10.6	13.2	(27) 15.9	(30)	(36)	(43)	(51) 16	(71) 16	(85)	(88)
SCM425EC-□	1450	60 Hz 90	0.051	0.088	(8.1)	(9.7)	0.27	0.32	(20) 0.45	0.54	(29)	0.90	1.0	(55)	1.7	(93)	(116)	3.1	3.4	4.1	4.9	5.8	(141) 8.1	9.7	(141)
	1200	50 Hz	(0.45)	(0.77) 0.78	(1.59)	(1.94)	(2.3)	(2.8)	(3.9)	(4.7)	(5.7) 5.2	(7.9) 6.9	(8.8)	(10.6) 9.9	(15.0)	(18.5) 16.5	(23)	(27) 24.8	(30)	(36)	(43)	(51)	(71)	(85)	(103)
	1450	60 Hz	(4.4)	(6.9)	(12.3)	(15.0)	(19.4)	(23)	(31)	(38)	(46)	(61)	(73)	(87)	(122)	(146)	(182)	(210)	(240)	(260)	(260)	(260)	(260)	(260)	<u> </u>
SCM540EC-□	90	50 Hz	0.094 (0.83)	0.16 (1.41)	0.29 (2.5)	0.35 (3.0)	0.44 (3.8)	0.53 (4.6)	0.73 (6.4)	(7.7)	1.1 (9.7)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.4 (30)	4.2 (37)	5.0 (44)	5.6 (49)	6.3 (55)	7.9 (69)	9.5 (84)	13.2 (116)	15.8 (139)	_
		60 Hz	0.10 (0.88)	0.17 (1.50)	0.32 (2.8)	0.38 (3.3)	0.47 (4.1)	0.57 (5.0)	0.79 (6.9)	0.95 (8.4)	1.1 (9.7)	1.5 (13.2)	1.8 (15.9)	2.2 (19.4)	3.0 (26)	3.6 (31)	4.5 (39)	5.4 (47)	6.0 (53)	6.8 (60)	8.5 (75)	10.2 (90)	14.2 (125)	17.0 (150)	-
	1200	50 Hz	0.79 (6.9)	1.2 (10.6)	2.2 (19.4)	2.6 (23)	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
		220 VAC 60 Hz	0.75 (6.6)	1.1 (9.7)	2.1 (18.5)	2.5 (22)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.5 (66)	9.9 (87)	11.9 (105)	14.2 (125)	19.8 (175)	23.7 (200)	29.7 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
	1450	230 VAC 60 Hz	0.79 (6.9)	1.2 (10.6)	2.2 (19.4)	2.6 (23)	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	-
SCM560EC-□		220 VAC 50 Hz	0.12	0.19	0.36	0.43	0.54	0.65	0.90	1.1	1.3	1.7	2.1	2.5	3.4	4.1	5.2	6.2	6.9	7.8	9.7	11.7	16.2	19.4	
		230 VAC 60 Hz	(1.06)	(1.68)	(3.1)	(3.8)	(4.7)	(5.7)	(7.9)	(9.7)	(11.5)	(15.0)	(18.5)	(22)	(30)	(36)	(46)	(54)	(61)	(69)	(85)	(103)	(143)		_
90	90	220 VAC 60 Hz		0.18 (1.59)		0.41 (3.6)	0.51 (4.5)	0.61 (5.3)	0.84 (7.4)	1.0 (8.8)	1.2	1.6 (14.1)	1.9	2.3 (20)	3.2 (28)	3.9 (34)	4.8 (42)	5.8 (51)	6.5 (57)	7.3 (64)	9.1 (80)	10.9 (96)	15.2 (134)		-
	230 VAC	0.12	0.21	0.38	0.46	0.57	0.69	0.96	1.1	1.4	1.8	2.2	2.6	3.7	4.4	5.5	6.6	7.3	8.3	10.3	12.4	17.2	20.7		
	1200	50 Hz 50 Hz	1.2	1.8	3.3	3.9	(5.0)	5.9	8.2	9.9	11.3	(15.9) 15.7	18.8	22.6	31.4	37.7	40	(58)	40	(73)	(91)	(109)	(152)	(103)	
SCM590EC-□	1450	60 Hz	0.13	0.20	0.43	(34)	0.64	(52) 0.77	1.1	1.3	1.5	2.0	(166)	2.9	4.1	4.9	(350)	(350) 6.9	7.7	9.2	11.5	(350) 13.9			
SCM590EC-	90	(1.15)	(1.77)	(3.8)	(4.5)	(5.6)	(6.8)	(9.7)	(11.5)	(13.2)	(17.7)	(22)	(25)	(36)	(43)	(51)	(61)	(68)	(81)	(101)	(123)	_	_	_	

Permissible Radial Load and Permissible Axial Load

Parallel Shaft Gearhead GV Gear

		Permissible Ra	dial Load N (lb.)	Permissible Axial Load
Output Power	Gear Ratio	Distance from the Gea	rhead Output Shaft End	
		10 mm (0.39 in.)	20 mm (0.79 in.)	N (lb.)
	2	100 (22)	150 (33)	15 (3.3)
6 W	3	100 (22)	150 (33)	30 (6.7)
(1/125 HP)	5 to 25	150 (33)	200 (45)	40 (0.0)
	30 to 360	200 (45)	300 (67)	40 (9.0)
	2	150 (33)	250 (56)	20 (4.5)
15 W	3	150 (33)	250 (56)	40 (9.0)
(1/50 HP)	5 to 25	200 (45)	300 (67)	80 (18.0)
	30 to 360	300 (67)	400 (90)	00 (10.0)
	2	300 (67)	350 (78)	25 (5.6)
25 W	3	300 (67)	350 (78)	50 (11.2)
(1/30 HP)	5 to 25	300 (67)	350 (78)	100 (22)
	30 to 360	450 (101)	550 (123)	100 (22)
40 W	2	250 (56)	350 (78)	100 (22)
(1/19 HP)	3 to 9	400 (90)	500 (112)	
60 W	12.5 to 18	450 (101)	600 (135)	150 (33)
(1/12 HP)	25 to 300	500 (112)	700 (157)	
	2	250 (56)	350 (78)	100 (22)
90 W	3 to 9	400 (90)	500 (112)	
(1/8 HP)	12.5 to 18	450 (101)	600 (135)	150 (33)
	25 to 180	500 (112)	700 (157)	



Round Shaft Type

	Output Power		dial Load N (lb.) or Output Shaft End	Permissible Axial Load
	·	10 mm (0.39 in.)	20 mm (0.79 in.)	
_	6 W (1/125 HP)	50 (11.2)	110 (24)	
	15 W (1/50 HP)	40 (9.0)	60 (13.5)	Half of Motor Mana
	25 W (1/30 HP)	90 (20)	140 (31)	Half of Motor Mass or Less*
	40 W (1/19 HP)	140 (31)	200 (45)	- UI LCSS
	60 W (1/12 HP) 90 W (1/8 HP)	240 (54)	270 (60)	1

* Avoid applying axial loads as much as possible.

If an axial load is unavoidable, keep it at half or less of the motor mass.

■ Gearhead Efficiency

Gear Ratio Product Name	2	3	5 6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
2GV□B, 3GV□B	70%	81%				90%								86%						81%		
4GV□B	78%	81%								86%						81%						
5GV□B	78%	81%		90%								8	36%						81%			
5GVH□B	81	%		90%								8	86%						81%			
5GVR□B	81	%		(90%					86	6%						81%					

Permissible Inertia J

Unit: $\times 10^{-4} \text{ kg} \cdot \text{m}^2 \text{ (oz-in}^2\text{)}$

Output Power	Gear Ratio	2	3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
6 W		2 (10.9)	4 (22)	12 (66)	18 (98)	28 (153)	40 (220)	78 (430)	110 (600)	160 (880)	260 (1420)	370 (2000)	540 (3000)	920 (5000)	1300 (7100)	1700 (9300)	2000 (10900)	2500 (13700)	3600 (19700)	5000 (27000)	5000 (27000)	5000 (27000)	5000 (27000)	5000 (27000)
6 W (1/125 HP)	When Instantaneous Stop or Bi-Directional Operation is performed*	0.25 (1.37)	0.56 (3.1)	1.55 (8.5)	2.23 (12.2)	3.49 (19.1)	5.02 (27)	9.69 (53)	14 (77)	20.1 (110)	38.8 (210)	55.8 (310)	80.4 (440)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)	155 (850)
15 W		3 (16.4)	7 (38)	20 (109)	28 (153)	45 (250)	65 (360)	120 (660)	180 (980)	260 (1420)	440 (2400)	630 (3400)	900 (4900)	1500 (8200)	2100 (11500)	2800 (15300)	3200 (17500)	4000 (22000)	5700 (31000)	8000 (44000)	8000 (44000)	8000 (44000)	8000 (44000)	8000 (44000)
(1/50 HP)	When Instantaneous Stop or Bi-Directional Operation is performed*	0.6 (3.3)	1.3 (7.1)	3.5 (19.1)	5.04 (28)	7.88 (43)	11.3 (62)	21.9 (120)	31.5 (172)	45.4 (250)	87.5 (480)	126 (690)	181 (990)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)	350 (1910)
25 W		3 (16.4)	8 (44)	22 (120)	32 (175)	50 (270)	72 (390)	150 (820)	220 (1200)	310 (1700)	550 (3000)	800 (4400)	1100 (6000)	2200 (12000)	3200 (17500)	4000 (22000)	5000 (27000)	6200 (34000)	8900 (49000)	12000 (66000)	12000 (66000)	12000 (66000)	12000 (66000)	12000 (66000)
(1/30 HP)	When Instantaneous Stop or Bi-Directional Operation is performed*	1.24 (6.8)	2.79 (15.3)	7.75 (42)	11.2 (61)	17.4 (95)	25.1 (137)	48.4 (260)	69.8 (380)	100 (550)	194 (1060)	279 (1530)	402 (2200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)	775 (4200)
40 W		7 (38)	16 (88)	45 (250)	65 (360)	100 (550)	150 (820)	300 (1640)	420 (2300)	620 (3400)	1100 (6000)	1600 (8800)	2300 (12600)	4500 (25000)	6000 (33000)	8000 (44000)	10000 (55000)	12000 (66000)	17000 (93000)	25000 (137000)	25000 (137000)	25000 (137000)	25000 (137000)	-
(1/19 HP) 60 W (1/12 HP)	When Instantaneous Stop or Bi-Directional Operation is performed*	4.4 (24)	9.9 (54)	27.5 (150)	39.6 (220)	61.9 (340)	89.1 (490)	172 (940)	248 (1360)	356 (1950)	688 (3800)	990 (5400)	1426 (7800)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	_
00 W		7 (38)	16 (88)	45 (250)	65 (360)	100 (550)	150 (820)	300 (1640)	420 (2300)	620 (3400)	1100 (6000)	1600 (8800)	2300 (12600)	4500 (25000)	6000 (33000)	8000 (44000)	10000 (55000)	12000 (66000)	17000 (93000)	25000 (137000)	25000 (137000)	-	-	-
90 W (1/8 HP)	When Instantaneous Stop or Bi-Directional Operation is performed*	4.4 (24)	9.9 (54)	27.5 (150)	39.6 (220)	61.9 (340)	89.1 (490)	172 (940)	248 (1360)	356 (1950)	688 (3800)	990 (5400)	1426 (7800)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	2750 (15000)	-	-	_

^{*} For **DSC** Series products with an electromagnetic brake, the values represent when "deceleration control" is ON.

lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

How to Read Speed – Torque Characteristics

The characteristics on the right shows the relationship between each setting speed and torque when a speed control motor is operated.

(1) Continuous Duty Region

Continuous operation is possible in this region within the specification rating. (2) Limited Duty Region

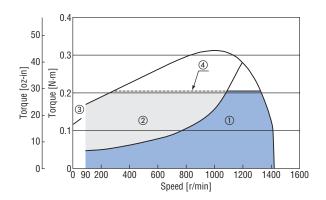
The motor case temperature may exceed 90°C (194°F) if operated continuously within the limited duty region. When operating within the limited duty region, ensure that the motor case temperature is maintained at 90°C (194°F) or less.

(3) Starting Torque

This refers to the degree of torque with which the motor can start.

(4) Permissible Torque

This refers to the permissible value of the motor torque when operating with the gearhead installed. Use the motor without exceeding the value on the list of permissible torques.

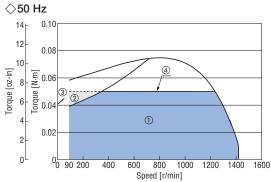


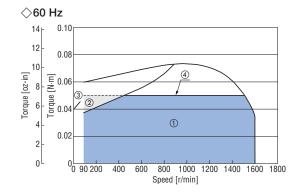
Speed - Torque Characteristics (Reference values) O Continuous Duty Region O Limited Duty Region O Starting Torque A Permissible Torque

All output characteristics are representative values.

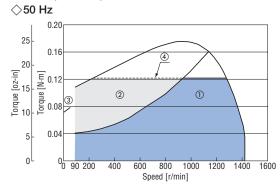
The permissible torque and starting torque of the motor vary according to the voltage. Use after checking the specifications and permissible torque.

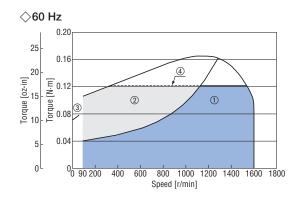
•6 W (1/125 HP)



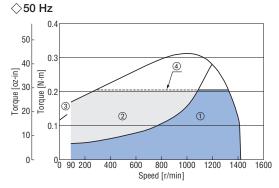


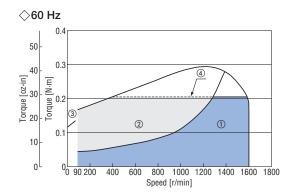
●15 W (1/50 HP)



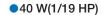


●25 W (1/30 HP)

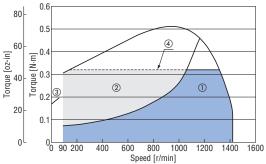




Electromagnetic Brake

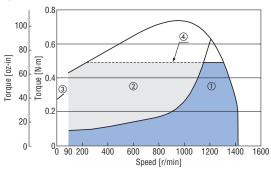


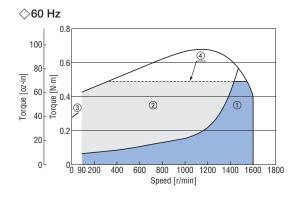




●60 W (1/12 HP)

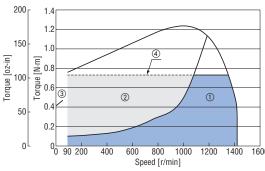


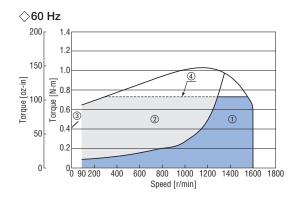




90 W (1/8 HP)

♦50 Hz





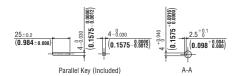
Dimensions [Unit: mm (in.)]

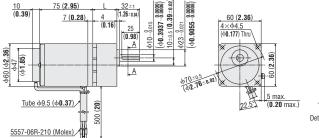
- "Installation screws" are included. Dimensions for installation screws → Page 43
- lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

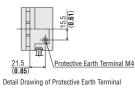
Parallel Shaft Gearhead GV Gear

2D & **3D CAD**

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD	
SCM26JA-□	SCM26GV-JA		5 to 25	34 (1.34)	1.1 (2.4)	A1214A	
SCM26JC-□ SCM26UA-□	SCM26GV-UA	SUA- \square SCM26GV-UA $2GV \square B$ 2,	2GV□B	2, 3, 30 to 120	38 (1.50)	1.1 (2.4)	A1214B
SCM26EC-□	SCM26GV-EC		150 to 360	43 (1.69)	1.2 (2.6)	A1214C	



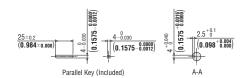


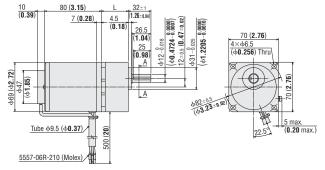


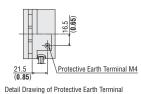
♦ 15 W (1/50 HP)

2D & 3D CAD

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD
SCM315JA-□	SCM315GV-JA		5 to 25	38 (1.50)	1.6 (3.5)	A1215A
SCM315JC-□ SCM315UA-□	SCM315GV-JC SCM315GV-UA	3GV□B	2, 3, 30 to 120	43 (1.69)	1.7 (3.7)	A1215B
SCM315EC-□	SCM315GV-EC		150 to 360	48 (1.89)	1.8 (4.0)	A1215C

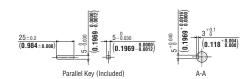


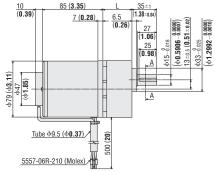


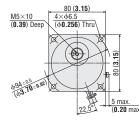


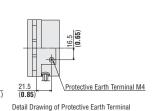
♦ 25 W (1/30 HP)

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD	
SCM425JA-□	SCM425GV-JA		5 to 25	41 (1.61)	2.3 (5.1)	A1216A	
SCM425JC-□ SCM425UA-□	SCM425GV-JC SCM425GV-UA	4GV□B	4GV□B	2, 3, 30 to 120	46 (1.81)	2.4 (5.3)	A1216B
SCM425EC-□	SCM425GV-EC		150 to 360	51 (2.01)	2.5 (5.5)	A1216C	





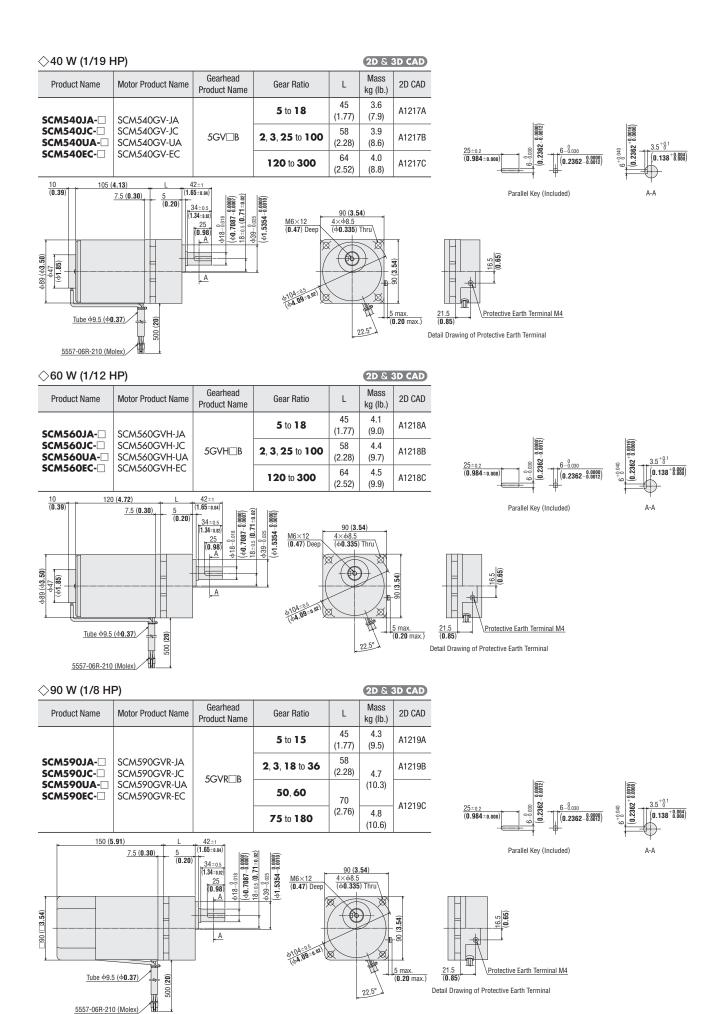




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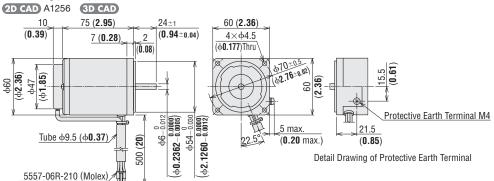
Electromagnetic Brake



Round Shaft Type

SCM26A-JA, SCM26A-JC, SCM26A-UA, SCM26A-EC

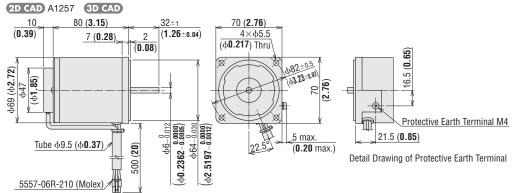
Mass: 0.8 kg (1.76 lb.)



♦15 W (1/50 HP)

SCM315A-JA, SCM315A-JC, SCM315A-UA, SCM315A-EC

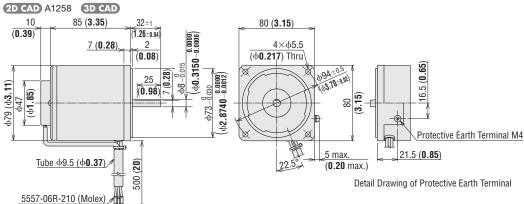
Mass: 1.2 kg (2.6 lb.)



◇25 W (1/30 HP)

SCM425A-JA, SCM425A-JC, SCM425A-UA, SCM425A-EC

Mass: 1.6 kg (3.5 lb.)

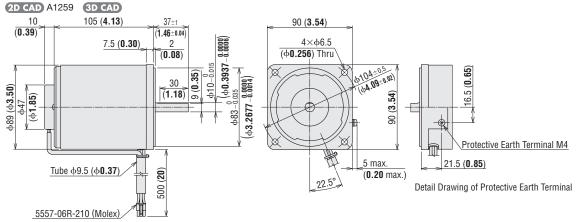


Electromagnetic Brake

♦40 W (1/19 HP)

SCM540A-JA, SCM540A-JC, SCM540A-UA, SCM540A-EC

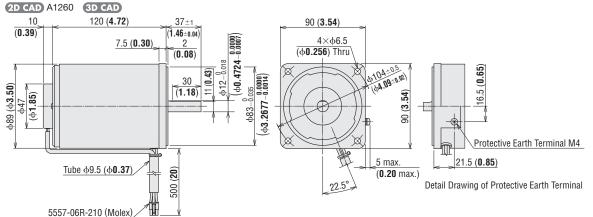




♦60 W (1/12 HP)

SCM560A-JA, SCM560A-JC, SCM560A-UA, SCM560A-EC

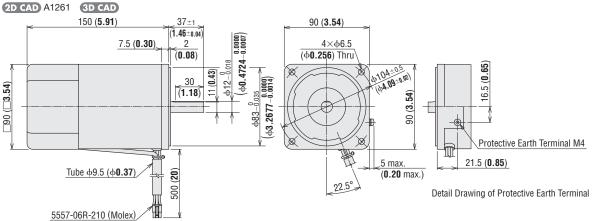
Mass: 3.1 kg (6.8 lb.)



◇90 W (1/8 HP)

SCM590A-JA, SCM590A-JC, SCM590A-UA, SCM590A-EC

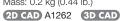
Mass: 3.3 kg (7.3 lb.)

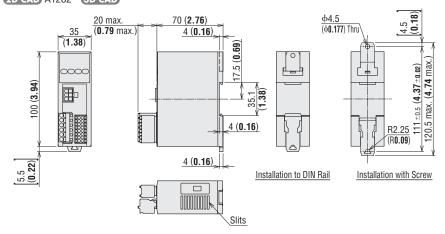


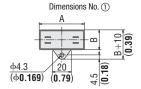
Speed Controller

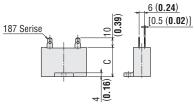
DSC-U

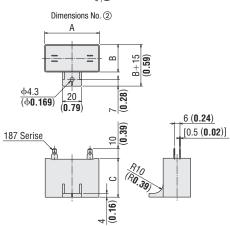
Mass: 0.2 kg (0.44 lb.)











• Capacitor Dimensions [Unit: mm (in.)]

• Capacitor Dimensions [Unit: mim (in.)]						
Speed			Capacito	r		
Controller Product Name	Product Name	А	В	С	Mass g (oz.)	Dimension No.
DSCD6JA	CH35FAUL2	31 (1.22)	17 (0.67)	27 (1.06)	22 (0.78)	
DSCD6JC	CH08BFAUL	31 (1.22)	17 (0.67)	27 (1.06)	23 (0.81)	
DSCD6UA	CH25FAUL2	31 (1.22)	17 (0.67)	27 (1.06)	21 (0.74)	
DSCD6EC	CH06BFAUL	31 (1.22)	14.5 (0.57)	23.5 (0.93)	18 (0.64)	
DSCD15JA	CH55FAUL2	38 (1.50)	21 (0.83)	31 (1.22)	35 (1.24)	
DSCD15JC	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	
DSCD15UA	CH45FAUL2	37 (1.46)	18 (0.71)	27 (1.06)	26 (0.92)	
DSCD15EC	CH10BFAUL	37 (1.46)	18 (0.71)	27 (1.06)	27 (0.95)	
DSCD25JA	CH80CFAUL2	48 (1.89)	21 (0.83)	31 (1.22)	41 (1.45)	1
DSCD25JC	CH20BFAUL	48 (1.89)	19 (0.75)	29 (1.14)	36 (1.27)	
DSCD25UA	CH65CFAUL2	48 (1.89)	19 (0.75)	29 (1.14)	35 (1.24)	
DSCD25EC	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	
DSCD40JA	CH110CFAUL2	58 (2.28)	21 (0.83)	31 (1.22)	49 (1.73)	
DSCD40JC	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	
DSCD40UA	CH90CFAUL2	48 (1.89)	22.5 (0.89)	31.5 (1.24)	45 (1.59)	
DSCD40EC	CH23BFAUL	48 (1.89)	21 (0.83)	31 (1.22)	43 (1.52)	
DSCD60JA	CH180CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	<u></u>
DSCD60JC	CH40BFAUL	58 (2.28)	23.5 (0.93)	37 (1.46)	73 (2.6)	2
DSCD60UA	CH120CFAUL2	58 (2.28)	22 (0.87)	35 (1.38)	60 (2.1)	(1)
DSCD60EC	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	
DSCD90JA	CH280CFAUL2	58 (2.28)	35 (1.38)	50 (1.97)	140 (4.9)	
DSCD90JC	CH70BFAUL	58 (2.28)	35 (1.38)	50 (1.97)	138 (4.9)	
DSCD90UA	CH200CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	91 (3.2)	2
DSCD90EC	CH60BFAUL	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	

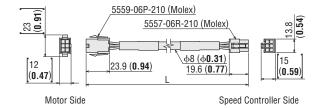
A capacitor and a capacitor cap are included with the speed controller product.

Connection Cable

Product Name	Length L [m (ft.)]	
CC01SC	1 (3.3.)	
CC02SC	2 (6.6)	
CC03SC	3 (9.8)	
CC05SC	5 (16.4)	
CC10SC	10 (32.8)	

Flexible Connection Cable

Product Name	Length L [m (ft.)]
CC01SCR	1 (3.3.)
CC02SCR	2 (6.6)
CC03SCR	3 (9.8)
CC05SCR	5 (16.4)
CC10SCR	10 (32.8)



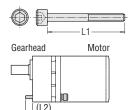
A capacitor cap is not included with the capacitor product.

Right-Angle Shaft

Electromagnetic Brake

■Dimensions for Installation Screws

Parallel Shaft Gearhead GV Gear



Product Name	Gear Ratio	Mounting	Screws	L2 [mm (in.)]	
Product Name	Gear Railo	Screw Size	L1 [mm (in.)]	L2 [IIIII (III.)]	
	2, 3		55 (2.17)	8 (0.31)	
2GV□B	5 to 25	M4	50 (1.97)	7 (0.28)	
ZGV∐D	30 to 120	IVI4	55 (2.17)	8 (0.31)	
	150 to 360		60 (2.36)	8 (0.31)	
	2, 3		65 (2.56)	12 (0.47)	
3GV□B	5 to 25		60 (2.36)	12 (0.47)	
JGV□D	30 to 120		65 (2.56)	12 (0.47)	
	150 to 360	M6	70 (2.76)	12 (0.47)	
	2, 3	IVIO	65 (2.56)	9 (0.35)	
4GV□B	5 to 25		60 (2.36)	9 (0.35)	
4 G V□ b	30 to 120		65 (2.56)	9 (0.35)	
	150 to 360		70 (2.76)	9 (0.35)	
	2, 3		85 (3.35)	16 (0.63)	
5GV□B	5 to 18		70 (2.76)	14 (0.55)	
JGVLB	25 to 100		85 (3.35)	16 (0.63)	
	120 to 300		90 (3.54)	15 (0.59)	
	2, 3		85 (3.35)	16 (0.63)	
5GVH□B	5 to 18	M8	70 (2.76)	14 (0.55)	
JGVIILIB	25 to 100	IVIO	85 (3.35)	16 (0.63)	
	120 to 300		90 (3.54)	15 (0.59)	
	2, 3		85 (3.35)	16 (0.63)	
5GVR□B	5 to 15		70 (2.76)	14 (0.55)	
JGVKLID	18 to 36		85 (3.35)	16 (0.63)	
	50 to 180		95 (3.74)	14 (0.55)	

Mounting Screws: 4 each pieces of flat washers and spring washers are included.

[•] The material of the mounting screw is stainless steel.

Electromagnetic Brake Type

Right-Angle Shaft Hypoid Gearhead







Solid Shaft Type

Product Line

Right-Angle Shaft Hypoid Gearhead

Price includes motor and gearhead.





Output	Power Supply	H	Iollow Shaft Type			Solid Shaft Type		
Power	Voltage	Product Name	Gear Ratio	List Price	Product Name	Gear Ratio	List Price	
	Single-Phase	SCM425KUAM-4H B	10, 15, 20, 30, 50	\$460.00	SCM425KUAM-4L□B	10, 15, 20, 30, 50	\$426.00	
25 W	110/115 VAC	SCM42SKUAM-4H□B	100, 200	\$489.00	3CM423ROAM-4L_B	100, 200	\$441.00	
(1/30 HP)	Single-Phase	SCM425KECM-4H□B	10, 15, 20, 30, 50	\$464.00	SCM425KECM-4L□B	10, 15, 20, 30, 50	\$430.00	
	220/230 VAC	SCM423RECM-4HLB	100, 200	\$493.00	SCM425RECM-4L_B	100, 200	\$445.00	
	Single-Phase	SCM540KUAM-5H□B	10, 15, 20, 30, 50	\$493.00	SCM540KUAM-5L\B	SCM540KUAM-5L□B	10, 15, 20, 30, 50	\$459.00
40 W	110/115 VAC		100, 200	\$522.00			100, 200	\$474.00
(1/19 HP)	Single-Phase	SCM540KECM-5H□B	10, 15, 20, 30, 50	\$497.00		SCM540KECM-5L□B	10, 15, 20, 30, 50	\$463.00
	220/230 VAC	SCM34URECM-3HLB	100, 200	\$526.00	SCM540RECM-3L_B	100, 200	\$478.00	
	Single-Phase	SCM590KUAM-5H\B	10, 15, 20, 30, 50	\$560.00	SCM590KUAM-5L□B	10, 15, 20, 30, 50	\$526.00	
90 W	110/115 VAC	SCMSYUKUAM-SHUB	100, 200	\$589.00	SCW2A0KOW-21□R	100, 200	\$541.00	
(1/8 HP)	Single-Phase	COMEONICM FILE	10, 15, 20, 30, 50	\$565.00	COMPOSITE AND THE	10, 15, 20, 30, 50	\$531.00	
	220/230 VAC	VAC SCM590KECM-5HDB	100, 200 \$594.00		SCM590KECM-5L□B	100, 200	\$546.00	

Speed Controller

Price includes speed controller, capacitor and capacitor cap.





Output Power	Power Supply Voltage	Product Name	List Price
25 W	Single-Phase 110/115 VAC	DSCD25UAM	\$132.00
(1/30 HP)	Single-Phase 220/230 VAC	DSCD25ECM	\$132.00
40 W	Single-Phase 110/115 VAC	DSCD40UAM	\$132.00
(1/19 HP)	Single-Phase 220/230 VAC	DSCD40ECM	\$132.00
90 W	Single-Phase 110/115 VAC	DSCD90UAM	\$134.00
(1/8 HP)	Single-Phase 220/230 VAC	DSCD90ECM	\$134.00

Connection Cable



Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCM	\$47.00
2 m (6.6 ft.)	CC02SCM	\$51.00
3 m (9.8 ft.)	ссозѕсм	\$61.00
5 m (16.4 ft.)	CC05SCM	\$80.00
10 m (32.8 ft.)	CC10SCM	\$128.00

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	9

Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCMR	\$92.00
2 m (6.6 ft.)	CC02SCMR	\$102.00
3 m (9.8 ft.)	CC03SCMR	\$121.00
5 m (16.4 ft.)	CC05SCMR	\$159.00
10 m (32.8 ft.)	CC10SCMR	\$255.00

Flexible Connection Cable

Included

Motor

Shaft Type	Installation Screws	Parallel Key	Safety Cover	Operating Manual	
Hollow Shaft Type	1 Set	1 pc. (Material: Stainless Steel)	1 pc.	1 Conv	
Solid Shaft Type	1 361	1pc. (Material: Steel)	_	1 Copy	

Speed Controller

Capacitor	Capacitor Cap	Operating Manual
1 pc.	1 pc.	1 Copy

Deceleration Control Function Integrated with the Electromagnetic Brake Type

The electromagnetic brake type features a deceleration control function which allows speed control during vertical operation and gravitational operation.

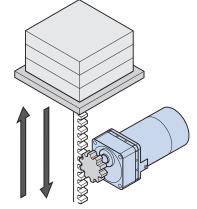
"What is the Deceleration Control Function?"

It is a function that applies brake current automatically to regulate the speed when the motor rotates faster than the setting speed. Even when force is applied in the direction of the motor output shaft's rotation due to vertical operation or an inertial load, the motor can be controlled to meet the setting speed.

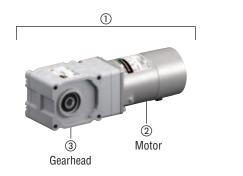
"Deceleration Control" ON (Factory setting): Applicable for vertical operation, gravitational operation, horizontal operation, position holding. "Deceleration Control" OFF: Applicable for horizontal operation, position holding. (Variable speed range is expanded.)

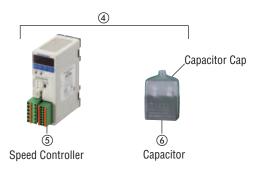
Specification values and permissible torque values will differ based on whether the deceleration control is 0N or OFF.

ltem	"Deceleration Control" Parameter ON (Factory Setting)	"Deceleration Control" Parameter OFF
Deceleration Control Function	Enabled	Disabled
Variable Speed Range	300 to 1400 r/min (50 Hz) 300 to 1600 r/min (60 Hz)	90 to 1400 r/min (50 Hz) 90 to 1600 r/min (60 Hz)
Acceleration Time/ Deceleration Time Range	0.2 to 15.0 seconds	0.0 to 15.0 seconds



List of Motor and Speed Controller Combinations





Right-Angle Hollow Shaft Hypoid JH Gear

0.4.4		Sp	eed Control Motor			Speed Controller	
Output Power	Power Supply Voltage	Product Name	Component Product Name		Product Name	Component Product Name	
LOMEI		①	2	3	4	(5)	6
	Single-Phase 100 VAC	SCM425KJAM-4H□B	SCM425KJAM		DSCD25JAM		CH80CFAUL2
25 W	Single-Phase 200 VAC	SCM425KJCM-4H□B	SCM425KJCM	4H□B	DSCD25JCM		CH20BFAUL
(1/30 HP)	Single-Phase 110/115 VAC	SCM425KUAM-4H□B	SCM425KUAM	4⊓∟в	DSCD25UAM		CH65CFAUL2
	Single-Phase 220/230 VAC	SCM425KECM-4H□B	SCM425KECM		DSCD25ECM		CH15BFAUL
	Single-Phase 100 VAC	SCM540KJAM-5H□B	SCM540KJAM		DSCD40JAM		CH110CFAUL2
40 W	Single-Phase 200 VAC	SCM540KJCM-5H□B	SCM540KJCM	5H□B	DSCD40JCM	DSC-MU	CH30BFAUL
(1/19 HP)	Single-Phase 110/115 VAC	SCM540KUAM-5H□B	SCM540KUAM	ЭПШВ	DSCD40UAM	DSC-MU	CH90CFAUL2
	Single-Phase 220/230 VAC	SCM540KECM-5H□B	SCM540KECM		DSCD40ECM		CH23BFAUL
	Single-Phase 100 VAC	SCM590KJAM-5H□B	SCM590KJAM		DSCD90JAM		CH280CFAUL2
90 W	Single-Phase 200 VAC	SCM590KJCM-5H□B	SCM590KJCM	5H□B	DSCD90JCM		CH70BFAUL
(1/8 HP)	Single-Phase 110/115 VAC	SCM590KUAM-5H□B	SCM590KUAM	JIILID	DSCD90UAM		CH200CFAUL2
	Single-Phase 220/230 VAC	SCM590KECM-5H□B	SCM590KECM	1	DSCD90ECM		CH60BFAUL

A capacitor and a capacitor cap are included with the speed controller product (product name 4).
 A capacitor cap is not included with the capacitor product (product name 6).

● Right-Angle Solid Shaft Hypoid JL Gear

0.1.1		Sp	eed Control Motor			Speed Controller		
Output Power	Power Supply Voltage	Product Name	Component F	Product Name	Product Name	Component Product Name		
I OWEI		①	2	3	4	5	6	
	Single-Phase 100 VAC	SCM425KJAM-4L□B	SCM425KJAM		DSCD25JAM		CH80CFAUL2	
25 W	Single-Phase 200 VAC	SCM425KJCM-4L□B	SCM425KJCM	4L□B	DSCD25JCM		CH20BFAUL	
(1/30 HP)	Single-Phase 110/115 VAC	SCM425KUAM-4L□B	SCM425KUAM	4LUD	DSCD25UAM		CH65CFAUL2	
	Single-Phase 220/230 VAC	SCM425KECM-4L□B	SCM425KECM		DSCD25ECM		CH15BFAUL	
	Single-Phase 100 VAC	SCM540KJAM-5L□B	SCM540KJAM		DSCD40JAM		CH110CFAUL2	
40 W	Single-Phase 200 VAC	SCM540KJCM-5L□B	SCM540KJCM	5L□B	DSCD40JCM	DSC-MU	CH30BFAUL	
(1/19 HP)	Single-Phase 110/115 VAC	SCM540KUAM-5L□B	SCM540KUAM	JL_B	DSCD40UAM	D3C-M0	CH90CFAUL2	
	Single-Phase 220/230 VAC	SCM540KECM-5L□B	SCM540KECM		DSCD40ECM		CH23BFAUL	
	Single-Phase 100 VAC	SCM590KJAM-5L□B	SCM590KJAM		DSCD90JAM		CH280CFAUL2	
90 W	Single-Phase 200 VAC	SCM590KJCM-5L□B	SCM590KJCM	5L□B	DSCD90JCM		CH70BFAUL	
(1/8 HP)	Single-Phase 110/115 VAC	SCM590KUAM-5L□B	SCM590KUAM	JLUD	DSCD90UAM		CH200CFAUL2	
	Single-Phase 220/230 VAC	SCM590KECM-5L□B	SCM590KECM		DSCD90ECM		CH60BFAUL	

A capacitor and a capacitor cap are included with the speed controller product (product name ④).

A capacitor cap is not included with the capacitor product (product name (6)).

Features

Right-Angle Shaft

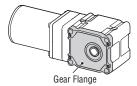
	Product Name		Output Power	Voltage	Frequency	Current	Power Consumption	Capacitor	Motor Overheat	Electromagnetic Brake (Power off Activated Type)	
Hollow Shaft Type	Solid Shaft Type	Speed Controller	[W (HP)]	[VAC]	[Hz]	[A]	[W]		Protection Device	Static Friction Torque [mN·m (oz-in)]	
SCM425KJAM-4H□B	SCM425KJAM-4L□B	DSCD25JAM		Single-Phase 100	50	0.75	62	8.0	TP	100 (14.2)	
JCM42JKJAM-4H_B	JCM1423KJAM1-4L_D	DSCDZSJAM		Single-Fliase 100	60	0.75	66	0.0	IF	100 (14.2)	
SCM425KJCM-4H□B	SCM425KJCM-4L□B	DSCD25JCM		Single-Phase 200	50	0.38	67	2.0	TP	100 (14.2)	
JCM42JKJCM-4H□B	JCMI425KJCMI-4L_B	D3CD25JCM		Olligic i flasc 200	60	0.38	67	2.0	"	100 (14.2)	
SCM425KUAM-4H□B	SCM425KUAM-4L□B	DSCD25UAM	25	Single-Phase 110	60	0.75	58	6.5	TP	100 (14.2)	
JCM423KUAM-4⊓⊔B	3CM423RUAM-4L_B	DSCD2SUAM	(1/30)	Single-Phase 115	00	0.75	69	0.5	IF	100 (14.2)	
				Single-Phase 220	50	0.37	70				
SCM425KECM-4H□B	SCM425KECM-4L□B	DSCD25ECM		Siligie-Filase 220	60	0.37	70	1.5	TP	100 (14.0)	
SCM425RECM-4H□B	SCM423RECM-4L_B	DSCDZSECM		Cinala Dhana 000	50	0.37	70	1.5	IP.	100 (14.2)	
				Single-Phase 230	60	0.37	70				

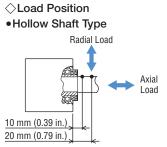
^{*}When the deceleration control is set ON, the rated specifications differ. For details, refer to "Common Specifications – Permissible Continuous Operation Time While Deceleration Control is ON" (
Page 50). Description of deceleration control → Page 45

TP: This indicates that there is a built-in thermal protector (automatic return type).

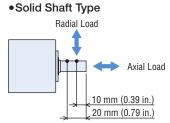
Gear Ratio					15	20	30	50	100	200
Rotation Direction*1					Same	direction as the	motor		Opposite direct	ion to the motor
	High Speed	1400 r	/min (50 Hz)	140	93	70	46	28	14	7
Variable Speed Range	nigii Speed	1600 r	/min (60 Hz)	160	106	80	53	32	16	8
[r/min]	Low Speed	300 r/min ("Dec	eleration Control" ON)	30	20	15	10	6	3	1.5
[///////	Low Speed	90 r/min ("Dece	leration Control" OFF)	9	6	4.5	3	1.8	0.9	0.5
When "Deceleration Control" is ON Permissible Torque Starting Torque [N·m (lb-in)]			50 Hz 60 Hz	0.4 (3.5)	0.6 (5.3)	0.8 (7.0)	1.3 (11.5)	2.2 (19.4)	4.0 (35)	8.0 (70)
		1200 r/min	50 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
	0 5.	1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.0 (17.7)	3.3 (29)	5.5 (48)	10.0 (88)	20.0 (177)
	Single-Phase 100 VAC	90 r/min	50/60 Hz	0.28 (2.4)	0.41 (3.6)	0.55 (4.8)	0.91 (8.0)	1.5 (13.2)	2.8 (24)	5.5 (48)
	200 VAC		100 VAC 50 Hz	0.65 (5.7)	0.98 (8.6)	1.3 (11.5)	2.1 (18.5)	3.6 (31)	6.5 (57)	13.0 (115)
	200 1710	Starting	100 VAC 60 Hz	0.68 (6.0)	1.0 (8.8)	1.4 (12.3)	2.2 (19.4)	3.7 (32)	6.8 (60)	13.5 (119)
When "Deceleration			200 VAC 50/60 Hz	0.60 (5.3)	0.90 (7.9)	1.2 (10.6)	2.0 (17.7)	3.3 (29)	6.0 (53)	12.0 (106)
Control" is OFF	0	1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
Permissible Torque	Single-Phase 110 VAC	90 r/min	60 Hz	0.23 (2.0)	0.34 (3.0)	0.45 (3.9)	0.74 (6.5)	1.2 (10.6)	2.3 (20)	4.5 (39)
Starting Torque	115 VAC	Starting	110 VAC 60 Hz	0.63 (5.5)	0.94 (8.3)	1.3 (11.5)	2.1 (18.5)	3.4 (30)	6.3 (55)	12.5 (110)
[N·m (lb-in)]		Starting	115 VAC 60 Hz	0.68 (6.0)	1.0 (8.8)	1.4 (12.3)	2.2 (19.4)	3.7 (32)	6.8 (60)	13.5 (119)
		1200 r/min	50 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
	Single-Phase	1450 r/min	60 Hz	1.0 (8.8)	1.5 (13.2)	2.1 (18.5)	3.4 (30)	5.6 (49)	10.3 (91)	20.5 (181)
	220 VAC	90 r/min	50/60 Hz	0.20 (1.77)	0.30 (2.6)	0.40 (3.5)	0.66 (5.8)	1.1 (9.7)	2.0 (17.7)	4.0 (35)
	230 VAC	Starting	220 VAC 50/60 Hz	0.55 (4.8)	0.83 (7.3)	1.1 (9.7)	1.8 (15.9)	3.0 (26)	5.5 (48)	11.0 (97)
		Starting	220 VAC 50/60 Hz	0.60 (5.3)	0.90 (7.9)	1.2 (10.6)	2.0 (17.7)	3.3 (29)	6.0 (53)	12.0 (106)
Permissible Inertia J				100 (550)	225 (1230)	400 (2200)	900 (4900)	2500 (13700)	10000 (55000)	40000 (220000)
$[\times 10^{-4} \text{kg} \cdot \text{m}^2 \text{ (oz-in}^2)$]	When Instantaneo	us Stop is Performed	28 (153)	63 (340)	112 (610)	252 (1380)	700 (3800)	2800 (15300)	11200 (61000)
December 1941 - December 1	Hollow Shaft*2	10 mm (0.39 in.) f	rom Installation Surface	311 (69)	400 (90)	488 (109)	622 (139)	799 (179)	888 (199)	978 (220)
Permissible Radial Load	Tioliow Shart	20 mm (0.79 in.) f	rom Installation Surface	265 (59)	341 (76)	417 (93)	531 (119)	682 (153)	758 (170)	836 (188)
[N (lb.)]	Solid Shaft		rom Output Shaft End	304 (68)	390 (87)	477 (107)	607 (136)	781 (175)	868 (195)	956 (210)
L (~/1	John Grant	20 mm (0.79 in.) f	rom Output Shaft End	390 (87)	501 (112)	613 (137)	780 (175)	1003 (220)	1114 (250)	1228 (270)
Permissible Axial Load	d [N (lb.)]			88 (19.8)	108 (24)	137 (30)	177 (39)	226 (50)	245 (55)	275 (61)

- *1 The rotation direction is as seen from the gear flange surface.
- *2 The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25
- \bullet 90 r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.





Distance from Installation Surface



Distance from Output Shaft End

■Specifications – Continuous Rating*

•40 W (1/19 HP)







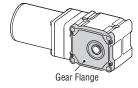
,										
	Product Name		Output		Frequency	Current	Power Consumption	Capacitor	Motor Overheat	Electromagnetic Brake (Power off Activated Type)
Hollow Shaft Type	Solid Shaft Type	Speed Controller	[W (HP)]	[VAC]	[Hz]		[W]		Protection Device	Static Friction Torque [mN·m (oz-in)]
SCM540KJAM-5H□B	SCM540KJAM-5L□B	DSCD40JAM		Single-Phase 100	50	1.1	92	11	TP	200 (20)
SCM34UKJAM-S⊓⊔B	SCM34UKJAM-SL_B	D3CD4UJAM		Siligie-Pliase 100	60	1.1	101	''	IP	200 (28)
SCM540KJCM-5H□B	SCM540KJCM-5L□B	DSCD40JCM]	Single-Phase 200	50	0.57	94	3.0	TP	200 (28)
3CM34OKJCM-3H_B	3CM340KJCM-3L_B	D3CD40JCM		Sillyle-Filase 200	60	0.57	100	3.0	IF	200 (20)
SCM540KUAM-5H□B	SCM540KUAM-5L□B	DSCD40UAM	40	Single-Phase 110	60	1.1	107	9.0	TP	200 (28)
3CM34UKUAM-3⊓∟B	SCM34UKUAM-3L□B	D3CD4UUAM	(1/19)	Single-Phase 115	00	1.1	107	9.0	IP	200 (26)
				Single-Phase 220	50	0.55	96			
SCM540KECM-5H□B	SCM540KECM-5L□B	DSCD40ECM		Sillyle-Pliase 220	60	0.55	104	2.3	TP	200 (20)
3CM34URECM-3H□B	SCM340KECM-3L_B	D3CD4UECM		Single-Phase 230	50	0.55	99	2.3	IP IP	200 (28)
				Siligie-Pliase 230	60	0.55	105			

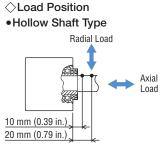
^{*}When the deceleration control is set ON, the rated specifications differ. For details, refer to "Common Specifications – Permissible Continuous Operation Time While Deceleration Control is ON" (-> Page 50). Description of deceleration control → Page 45

TP: This indicates that there is a built-in thermal protector (automatic return type).

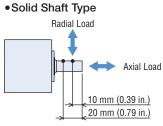
Rotation Direction*1 Variable Speed Range [r/min]	1600 r. 300 r/min ("Dec	/min (50 Hz) /min (60 Hz) eleration Control" ON) leration Control" OFF) 50 Hz 60 Hz	140 160 30 9	Same 93 106 20 6 1.1 (9.7)	direction as the 70 80 15 4.5	motor 46 53 10 3	28 32 6 1.8	14 16 3 0.9	7 8 1.5 0.5
Range [r/min] When "Deceleration Control" is ON Permissible Torque Starting Torque [N·m (lb-in)] Single-Phase	1600 r. 300 r/min ("Dece 90 r/min ("Dece	/min (60 Hz) eleration Control" ON) leration Control" OFF) 50 Hz 60 Hz	160 30 9 0.7 (6.1)	106 20 6	80 15 4.5	53 10 3	32 6 1.8	16 3 0.9	8 1.5
Range [r/min] Low Speed When "Deceleration Control" is ON Permissible Torque Starting Torque [N·m (lb-in)] Single-Phase	300 r/min ("Dece	eleration Control" ON) leration Control" OFF) 50 Hz 60 Hz 50 Hz	30 9 0.7 (6.1)	20 6	15 4.5	10 3	6 1.8	3 0.9	1.5
[r/min] Low Speed	90 r/min ("Dece	leration Control" OFF) 50 Hz 60 Hz 50 Hz	9 0.7 (6.1)	6	4.5	3	1.8	0.9	_
When "Deceleration Control" is ON Permissible Torque Starting Torque [N·m (lb-in)]	1200 r/min	50 Hz 60 Hz 50 Hz	0.7 (6.1)	-		-	-		0.5
Control" is ON Permissible Torque Starting Torque [N·m (lb-in)] Single-Phase		60 Hz 50 Hz	` '	1.1 (9.7)	1.4 (12.3)	2.1 (18.5)	2.5 (20)		
						, ,	3.5 (30)	7.7 (68)	15.4 (136)
	1450 r/min	400140 001	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
	1430 1/111111	100 VAC 60 Hz	1.5 (13.2)	2.3 (20)	3.0 (26)	4.5 (39)	7.5 (66)	16.5 (146)	33.0 (290)
		200 VAC 60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
100 VAC	90 r/min	100 VAC 50/60 Hz	0.40 (3.5)	0.60 (5.3)	0.80 (7.0)	1.2 (10.6)	2.0 (17.7)	4.4 (38)	8.8 (77)
200 VAC	90 1/111111	200 VAC 50/60 Hz	0.45 (3.9)	0.68 (6.0)	0.90 (7.9)	1.4 (12.3)	2.3 (20)	5.0 (44)	9.9 (87)
200 1710	Starting	100 VAC 50 Hz	0.90 (7.9)	1.4 (12.3)	1.8 (15.9)	2.7 (23)	4.5 (39)	9.9 (87)	19.8 (175)
When "Deceleration Control" is OFF		100 VAC 60 Hz 200 VAC 50/60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
Permissible Torque	1450 r/min	60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
Starting Torque Single-Phase 110 VAC	90 r/min	60 Hz	0.35 (3.0)	0.53 (4.6)	0.70 (6.1)	1.1 (9.7)	1.8 (15.9)	3.9 (34)	7.7 (68)
[N·m (lb-in)] 110 VAC 115 VAC	Starting	110 VAC 60 Hz	0.90 (7.9)	1.4 (12.3)	1.8 (15.9)	2.7 (23)	4.5 (39)	9.9 (87)	19.8 (175)
110 VAO	Starting	115 VAC 60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
	1200 r/min	50 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
Single-Phase	1450 r/min	60 Hz	1.6 (14.1)	2.4 (21)	3.2 (28)	4.8 (42)	8.0 (70)	17.6 (155)	35.2 (310)
220 VAC	90 r/min	50 Hz	0.33 (2.9)	0.49 (4.3)	0.65 (5.7)	0.98 (8.6)	1.6 (14.1)	3.6 (31)	7.2 (63)
230 VAC	90 1/111111	60 Hz	0.35 (3.0)	0.53 (4.6)	0.70 (6.1)	1.1 (9.7)	1.8 (15.9)	3.9 (34)	7.7 (68)
	Starting	50/60 Hz	0.95 (8.4)	1.4 (12.3)	1.9 (16.8)	2.9 (25)	4.8 (42)	10.5 (92)	20.9 (184)
Permissible Inertia J			200 (1090)	450 (2500)	800 (4400)	1800 (9800)	5000 (27000)	20000 (109000)	80000 (440000)
$[\times 10^{-4} \text{kg} \cdot \text{m}^2 \text{ (oz-in}^2)]$	When Instantaneo	us Stop is Performed	59 (320)	132.8 (730)	236 (1290)	531 (2900)	1475 (8100)	5900 (32000)	23600 (129000)
Permissible Radial Hollow Shaft*2	10 mm (0.39 in.) f	rom Installation Surface	415 (93)	554 (124)	692 (155)	923 (200)	1112 (250)	1196 (260)	1291 (290)
	20 mm (0.79 in.) f	rom Installation Surface	363 (81)	484 (108)	605 (136)	806 (181)	971 (210)	1045 (230)	1127 (250)
Load [N (lb.)] Solid Shaft	10 mm (0.39 in.) f	rom Output Shaft End	378 (85)	504 (113)	630 (141)	840 (189)	1011 (220)	1089 (240)	1174 (260)
[N (lb.)] Solid Shaft	20 mm (0.79 in.) f	rom Output Shaft End	481 (108)	641 (144)	802 (180)	1069 (240)	1287 (280)	1385 (310)	1495 (330)
Permissible Axial Load [N (lb.)]			108 (24)	147 (33)	186 (41)	245 (55)	294 (66)	324 (72)	343 (77)

- *1 The rotation direction is as seen from the gear flange surface.
- ★2 The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25
- 90 r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.





Distance from Installation Surface



Distance from Output Shaft End

Features

Right-Angle Shaft

	Product Name		Output		Frequency	Current	Power Consumption	Capacitor	Motor Overheat	Electromagnetic Brake (Power off Activated Type)
Hollow Shaft Type	Solid Shaft Type	Speed Controller	Power [W (HP)]	[VAC]	[Hz]	[A]	[W]	[µF]	Protection Device	Static Friction Torque [mN·m (oz-in)]
SCM590KJAM-5H□B	SCM590KJAM-5L□B	DSCD90JAM		Cingle Phone 100	50	2.4	195	28	TP	E00 (71)
2CM2A0K1WH-2H□P	SCM390KJAM-3L□B	DSCD9UJAM		Single-Phase 100	60	2.6	217	20	IP	500 (71)
SCM590KJCM-5H□B	SCM590KJCM-5L□B	DSCD90JCM		Single-Phase 200	50	1.2	198	7.0	TP	500 (71)
3CM39OKJCM-3H_B	3CM370KJCM-3L_B	D2CD401CW		olligic i flasc 200	60	1.3	221	7.0	IF	300 (71)
SCM590KUAM-5H□B	SCM590KUAM-5L□B	DSCD90UAM	90	Single-Phase 110	60	2.4	224	20	TP	500 (71)
3CM39OKOAM-3⊓_B	3CM39OROAM-3L_B	D3CD9UUAM	(1/8)	Single-Phase 115	00	2.5	227	20	I I I	300 (71)
]	Single-Phase 220	50	1.2	201			
SCM590KECM-5H□B	SCM590KECM-5L□B	DSCD90ECM		Sillyle-Filase 220	60	1.3	226	6.0	TP	500 (71)
3CM33UNECM-3∏□D	SCM370KECM-SL_B	D3CD7UECM	Single-Phase 2	Cingle Phase 220	50	1.2	204	0.0	I IP	500 (71)
				Siligie-Filase 230	60	1.3	228			

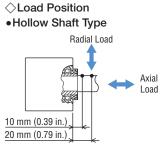
^{*}When the deceleration control is set ON, the rated specifications differ. For details, refer to "Common Specifications – Permissible Continuous Operation Time While Deceleration Control is ON" (-> Page 50). Description of deceleration control → Page 45

TP: This indicates that there is a built-in thermal protector (automatic return type).

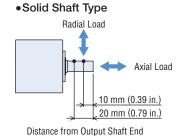
Gear Ratio				10	15	20	30	50	100	200
Rotation Direction*1					Same	direction as the	motor		Opposite direct	ion to the motor
	High Cased	1400 r	/min (50 Hz)	140	93	70	46	28	14	7
Variable Speed	High Speed	1600 r	/min (60 Hz)	160	106	80	53	32	16	8
Range [r/min]	Low Speed	300 r/min ("Dec	eleration Control" ON)	30	20	15	10	6	3	1.5
[1/11111]	Low Speed	90 r/min ("Dece	leration Control" OFF)	9	6	4.5	3	1.8	0.9	0.5
When "Deceleration Control" is ON Permissible Torque Starting Torque [N·m (lb-in)]			50 Hz 60 Hz	2.2 (19.4)	3.4 (30)	4.5 (39)	6.7 (59)	11.2 (99)	22.4 (198)	44.8 (390)
		1200 r/min	50 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
		1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
	Single-Phase 100 VAC	90 r/min	100 VAC 50/60 Hz 200 VAC 60 Hz	0.77 (6.8)	1.2 (10.6)	1.5 (13.2)	2.3 (20)	3.9 (34)	7.7 (68)	15.4 (136)
	200 VAC		200 VAC 50 Hz	0.84 (7.4)	1.3 (11.5)	1.7 (15.0)	2.5 (22)	4.2 (37)	8.4 (74)	16.8 (148)
	200 VAO		100 VAC 50/60 Hz	3.3 (29)	4.9 (43)	6.6 (58)	9.9 (87)	16.5 (146)	32.9 (290)	53.9 (470)
	en "Deceleration	Starting	200 VAC 50 Hz	3.4 (30)	5.0 (44)	6.7 (59)	10.1 (89)	16.8 (148)	33.6 (290)	53.9 (470)
When "Deceleration			200 VAC 60 Hz	3.6 (31)	5.4 (47)	7.1 (62)	10.7 (94)	17.9 (158)	35.7 (310)	53.9 (470)
Control" is OFF	0	1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
Permissible Torque Starting Torque	Single-Phase 110 VAC	90 r/min	60 Hz	0.60 (5.3)	0.89 (7.8)	1.2 (10.6)	1.8 (15.9)	3.0 (26)	6.0 (53)	11.9 (105)
	115 VAC	Starting	110 VAC 60 Hz	2.8 (24)	4.2 (37)	5.6 (49)	8.4 (74)	14.0 (123)	28.0 (240)	53.9 (470)
[N·m (lb-in)]	110 VAO	Starting	115 VAC 60 Hz	3.1 (27)	4.6 (40)	6.2 (54)	9.2 (81)	15.4 (136)	30.8 (270)	53.9 (470)
		1200 r/min	50 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
		1450 r/min	60 Hz	4.1 (36)	6.1 (53)	8.3 (73)	12.7 (112)	20.6 (182)	39.2 (340)	53.9 (470)
	Single-Phase	90 r/min	50/60 Hz	0.67 (5.9)	1.0 (8.8)	1.3 (11.5)	2.0 (17.7)	3.3 (29)	6.7 (59)	13.3 (117)
	220 VAC		220 VAC 50 Hz	3.4 (30)	5.1 (45)	6.9 (61)	10.3 (91)	17.2 (152)	34.3 (300)	53.9 (470)
	230 VAC	Starting	220 VAC 60 Hz	3.5 (30)	5.3 (46)	7.0 (61)	10.5 (92)	17.5 (154)	35.0 (300)	53.9 (470)
		Starting	230 VAC 50 Hz	3.6 (31)	5.5 (48)	7.3 (64)	10.9 (96)	18.2 (161)	36.4 (320)	53.9 (470)
			230 VAC 60 Hz	3.7 (32)	5.6 (49)	7.4 (65)	11.1 (98)	18.6 (164)	37.1 (320)	53.9 (470)
Permissible Inertia J				200 (1090)	450 (2500)	800 (4400)	1800 (9800)	5000 (27000)	20000 (109000)	80000 (440000)
$[\times 10^{-4} \text{kg} \cdot \text{m}^2 \text{ (oz-in}^2)$]	When Instantaneo	us Stop is Performed	39 (210)	87.8 (480)	156 (850)	351 (1920)	975 (5300)	3900 (21000)	15600 (85000)
	Hollow Shaft*2	10 mm (0.39 in.) f	rom Installation Surface	415 (93)	554 (124)	692 (155)	923 (200)	1112 (250)	1196 (260)	1291 (290)
Permissible Radial	HOHOW SHAIT*2	20 mm (0.79 in.) f	rom Installation Surface	363 (81)	484 (108)	605 (136)	806 (181)	971 (210)	1045 (230)	1127 (250)
Load [N (lb.)]	Solid Shaft	10 mm (0.39 in.) f	rom Output Shaft End	378 (85)	504 (113)	630 (141)	840 (189)	1011 (220)	1089 (240)	1174 (260)
[[4 (10.)]	Solia Shart	20 mm (0.79 in.) f	rom Output Shaft End	481 (108)	641 (144)	802 (180)	1069 (240)	1287 (280)	1385 (310)	1495 (330)
Permissible Axial Load	d [N (lb.)]			108 (24)	147 (33)	186 (41)	245 (55)	294 (66)	324 (72)	343 (77)

^{● 90} r/min, 1200 r/min, 1400 r/min, 1450 r/min, and 1600 r/min represent the motor shaft speed.









^{\$2} The radial load at each distance can be calculated with a formula. Permissible radial load calculation for hollow shaft type → Page 25

■Common Specifications

Ite	m	Specifications						
Speed Setting Method		The speed of the motor output shaft can be set using any of the following methods: Using operation panel Up to four types of operation data can be set. Using an external speed potentiometer Using external DC voltage: 0 to 5 VDC, or 0 to 10 VDC						
Acceleration Time and De Range	eceleration Time Setting	0.2 to 15.0 s (0.0 \sim 15.0 s: can be set when the "deceleration control" is OFF.) The motor acceleration time and deceleration time vary depending on the load condition.						
	Monitor Mode	Speed, Operation Data No., Alarm Code, Warning Code, I/O Monitor						
	Data Mode	Speed, Accelerating Time, Decelerating Time, Initialization						
Functions	Parameter Mode	Speed Reduction Ratio, Speed Increasing Ratio, Lowest Digit Display Fixed, Prevention of Operation at Power-on Alarm, External Speed Command Input, External Speed Command Voltage Selection, External Speed Command OffSet, Speed Upper and Lower Limit, Deceleration Control, Brake Type, Input Function Selection, Output Function Selection, Motor Lock Detection Time, Motor Rotation Direction, Initialization						
	Test Mode	JOG Operation, Electromagnetic Brake Release						
	Other Function	Prohibiting Data Editing						
Control Power Supply		24 VDC±10% 0.15 A min.						
Input Signals		Photocoupler Input, Input Resistance 4.7 k Ω Signal assignment to INO to IN5 inputs (6 points) is possible as desired. []: Initial Setting [FWD], [ReV], [M0], [M1], [ALARM-RESET], [FREE], EXT-ERROR Source input or sink input can be switched using the selection switch. Factory setting: Sink Input						
Output Signals		Photocoupler and Open-Collector Output, External power supply: 4.5 to 30 VDC, 40 mA max. Signal assignment to OUT0 and OUT1 outputs (2 points) is possible as desired. []: Initial setting [SPEED-OUT], [ALARM-OUT], TH-OUT, WNG Source output or sink output can be switched by changing the external wiring.						
Protective Function		When any of the following protective functions is activated, the output to the motor is cut off, and the electromagnetic brake is activated to stop the motor. Then the ALARM output will be turned off. At the same, the alarm code will be displayed on the control panel and the ALARM LED will be lit. Alarm Types: Motor Overheat, Motor Lock, Overspeed, EEPROM Error, Prevention of Operation at Power-On, External Stop						
Permissible Continuous Operation Time	25 W (1/30 HP) 40 W (1/19 HP)	Permissible Continuous Operation Time: 1 minute Operation Duty: 50% max. (e.g. Operation: 1 minute, Stop: 1 minute)						
While Deceleration Control is ON	90 W (1/8 HP)	Permissible Continuous Operation Time: 1 minute Operation Duty: 33% max. (e.g. Operation: 1 minute, Stop: 2 minutes)						
Maximum Extension Len	gth	Between the motor and the speed controller: 10.5 m (34.4 ft.) (Including 0.5 m (1.6 ft.) motor cable)						

■General Specifications

	Item	Motor	Speed Controller		
$100 \ M\Omega \ or \ more \ when 500 \ VDC \ megger \ is applied between the windings and the case after continuous operation under normal ambient temperature and humidity.$			100 $\mathrm{M}\Omega$ or more when 500 VDC megger is applied between the following places after continuous operation under normal ambient temperature and humidity: - Main Circuit Terminal - Control Circuit Terminal - Main Circuit Terminal - Case - Main Circuit Terminal - FG		
Dielectric Strength		Sufficient to withstand 1.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.	Sufficient to withstand the following for 1 minute after continuous operation under normal ambient temperature and humidity: · Main Circuit Terminal - Control Circuit Terminal 1.9 kVAC at 50 Hz or 60 Hz · Main Circuit Terminal - Case 1.9 kVAC at 50 Hz or 60 Hz · Main Circuit Terminal - FG 1.5 kVAC at 50 Hz or 60 Hz		
Temperature	Rise	The temperature rise of the windings is 80°C (176°F) or less measured by the resistance change method after no-load continuous operation under normal ambient temperature and humidity.			
Overheat Protection Device Thermal Protector Built-in (Automatic Return Type) Open: 130±5°C (266±9°F) Close: 85±20°C (185±36°F)			-		
	Ambient Temperature	0 to $+40^{\circ}$ C ($+32$ to $+104^{\circ}$ F) (Non-freezing)	0 to +40°C (+32 to +104°F) (Non-freezing)		
	Ambient Humidity	Non-condensing)			
Operating	Altitude	Up to 1000 m (3300 ft.) above sea level			
Environment	Surrounding Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids. Cannot be used in radioactive materials, magnetic field, v or other special environments.			
	Vibration		nformance with JIS C 60068-2-6 "Sine-wave vibration test method" n.) Sweep Direction: 3 Directions (X, Y, Z), Number of Sweeps: 20 times		
	Ambient Temperature	$-10 \text{ to } +60^{\circ}\text{C} \text{ [} +14 \text{ to } +140^{\circ}\text{F] (Non-freezing)}$	$-25 \text{ to } +70^{\circ}\text{C} [-13 \text{ to } +158^{\circ}\text{F}] \text{ (Non-freezing)}$		
Storage Condition*	Ambient Humidity	85% or less (Non-condensing)			
	Altitude	Up to 1000 m (3300 ft.) above sea level			
Containon	Surrounding Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids. Cannot be used in radioactive materials, magnetic field, va or other special environments.			
Thermal Class	S	130 (B)	_		
Degree of Pro	tection	IP20	IP20		

^{*}The storage condition applies to short periods such as the period during transportation.

Note

■ How to Read Speed – Torque Characteristics

→ Page 17

■ Speed - Torque Characteristics (Reference values)

Do not measure insulation resistance or perform the dielectric voltage test while the motor and speed controller are connected.

Standard

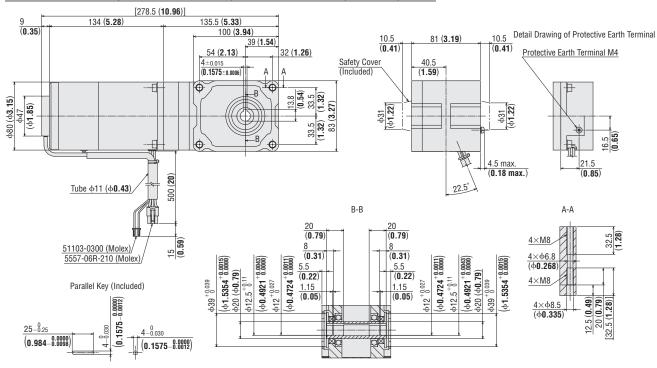
Dimensions [Unit: mm (in.)]

- "Installation screws" are included. Dimensions for installation screws → Page 24
- lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

●25 W (1/30 HP)

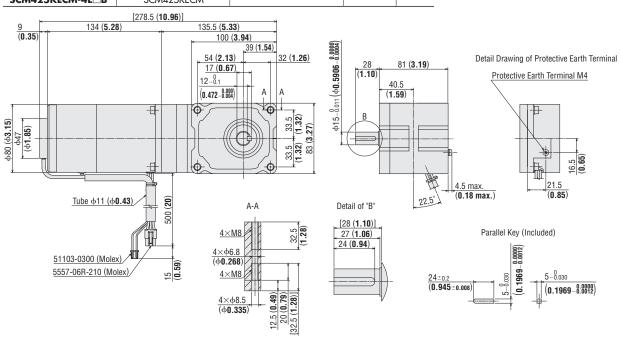
◇Right-Angle Hollow Shaft Hypoid JH Gear

	Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SC	CM425KJAM-4H□B	SCM425KJAM			
SC	CM425KJCM-4H□B	SCM425KJCM		4.3	A1686
SC	CM425KUAM-4H_B	SCM425KUAM	4⊓⊔ D	(9.5)	A1000
SC	CM425KECM-4H□B	SCM425KECM			



◇Right-Angle Solid Shaft Hypoid JL Gear

	• • • • • • • • • • • • • • • • • • • •			
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM425KJAM-4L□B	SCM425KJAM			
SCM425KJCM-4L□B	SCM425KJCM	4L□B	4.3 (9.5)	A1687
SCM425KUAM-4L□B	SCM425KUAM	4L⊔D		
SCM425KECM-4L□B	SCM425KECM			

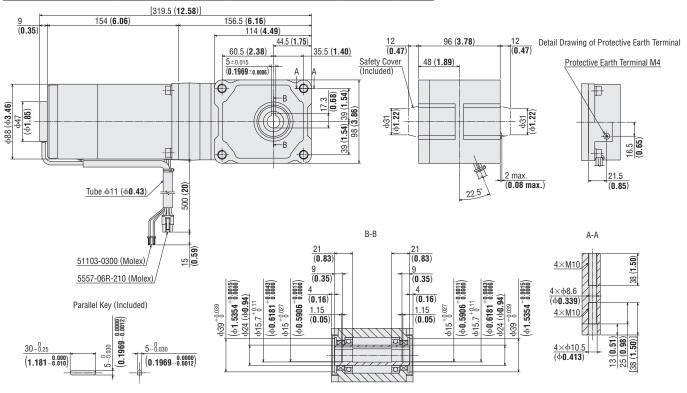


●40 W (1/19 HP)

◇Right-Angle Hollow Shaft Hypoid JH Gear

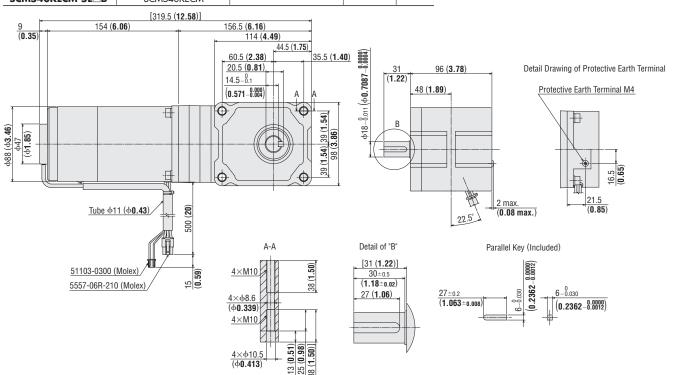
	2D	&	3D	CAD
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Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM540KJAM-5H□B	SCM540KJAM			
SCM540KJCM-5H□B	SCM540KJCM	5H□B	6.2	A1688
SCM540KUAM-5H□B	SCM540KUAM	JU⊓P	(13.6)	A1000
SCM540KECM-5H□B	SCM540KECM			



◇Right-Angle Solid Shaft Hypoid JL Gear

Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM540KJAM-5L□B	SCM540KJAM			
SCM540KJCM-5L□B	SCM540KJCM	5L□B	6.2	A1689
SCM540KUAM-5L□B	SCM540KUAM	JL∐D	(13.6)	A1009
SCM540KECM-5L□B	SCM540KECM			



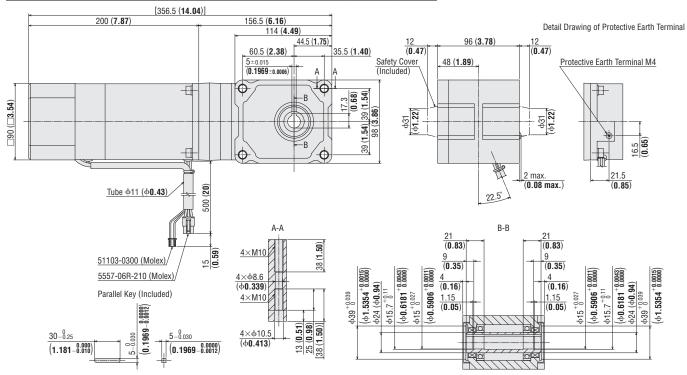
Standard

Electromagnetic Brake

90 W (1/8 HP)

◇Right-Angle Hollow Shaft Hypoid JH Gear

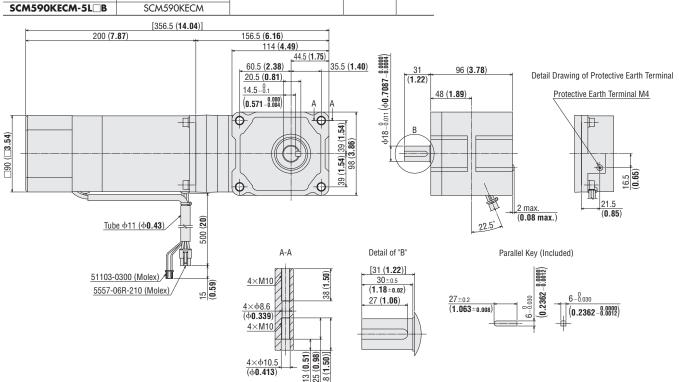
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM590KJAM-5H□B	SCM590KJAM			
SCM590KJCM-5H□B	SCM590KJCM	5H□B	7.0	A1000
SCM590KUAM-5H□B	SCM590KUAM	SULD	(15.4)	A1690
SCM590KECM-5H□B	SCM590KECM			



◇Right-Angle Solid Shaft Hypoid JL Gear

2D & **3D CAD**

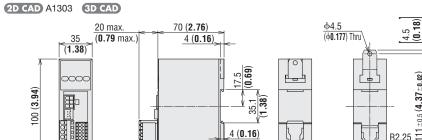
Product Name	Motor Product Name	Gearhead Product Name	Mass kg (lb.)	2D CAD
SCM590KJAM-5L□B	SCM590KJAM			
SCM590KJCM-5L□B	SCM590KJCM	5I □B	7.0 (15.4)	A1691
SCM590KUAM-5L□B	SCM590KUAM	JL⊟D		
SCM590KECM-5L B	SCM590KECM			



Speed Controller

DSC-MU

Mass: 0.2 kg (0.44 lb.)

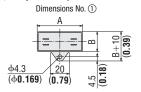


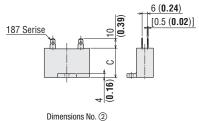


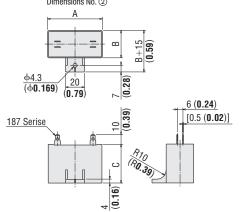
4 (0.16)

Installation to DIN Rail

♦ Capacitor (Included with the speed controller)







• Capacitor Dimensions [Unit: mm (in.)]

Installation with Screw

Speed Controller	Capacitor					
Product Name	Product Name	Α	В	С	Mass g (oz.)	Dimension No.
DSCD25JAM	CH80CFAUL2	48 (1.89)	21 (0.83)	31 (1.22)	41 (1.45)	
DSCD25JCM	CH20BFAUL	48 (1.89)	19 (0.75)	29 (1.14)	36 (1.27)	
DSCD25UAM	CH65CFAUL2	48 (1.89)	19 (0.75)	29 (1.14)	35 (1.24)	
DSCD25ECM	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	1
DSCD40JAM	CH110CFAUL2	58 (2.28)	21 (0.83)	31 (1.22)	49 (1.73)	
DSCD40JCM	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	
DSCD40UAM	CH90CFAUL2	48 (1.89)	22.5 (0.89)	31.5 (1.24)	45 (1.59)	
DSCD40ECM	CH23BFAUL	48 (1.89)	21 (0.83)	31 (1.22)	43 (1.52)	
DSCD90JAM	CH280CFAUL2	58 (2.28)	35 (1.38)	50 (1.97)	140 (4.9)	
DSCD90JCM	CH70BFAUL	58 (2.28)	35 (1.38)	50 (1.97)	138 (4.9)	2
DSCD90UAM	CH200CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	91 (3.2)	
DSCD90ECM	CH60BFAUL	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	

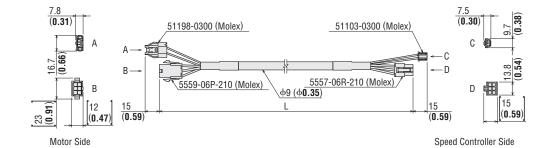
 $^{\ \, \}blacksquare \, A$ capacitor and a capacitor cap are included with the speed controller product.

Connection Cable

Product Name	Length L [m (ft.)]
CC01SCM	1 (3.3.)
CC02SCM	2 (6.6)
CC03SCM	3 (9.8)
CC05SCM	5 (16.4)
CC10SCM	10 (32.8)

Flexible Connection Cable

Product Name	Length L [m (ft.)]
CC01SCMR	1 (3.3.)
CC02SCMR	2 (6.6)
CC03SCMR	3 (9.8)
CC05SCMR	5 (16.4)
CC10SCMR	10 (32.8)



A capacitor cap is not included with the capacitor product.

Right-Angle Shaft

Electromagnetic Brake Type Parallel Shaft Gearhead GV Gear



Parallel Shaft Gearhead GV Gear

Product Line

Parallel Shaft Gearhead GV Gear

Price includes motor and gearhead.



Speed Controller Price includes speed controller, capacitor and capacitor cap.



1	

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
			7. 5, 9 , 12.5, 15, 18	\$222.00
	Single-Phase	SCM26UAM-□	25, 30, 36	\$229.00
	110/115 VAC	SCM200AM-	50, 60, 75, 90, 100, 120, 150, 180	\$237.00
6 W			250, 300, 360	\$272.00
(1/125 HP)			7. 5, 9 , 12.5, 15, 18	\$224.00
	Single-Phase 220/230 VAC	SCM26ECM-□	25, 30, 36	\$231.00
			50, 60, 75, 90, 100, 120, 150, 180	\$239.00
			250, 300, 360	\$274.00
			7. 5, 9 , 12.5, 15, 18	\$232.00
	Single-Phase	SCM315UAM-□	25, 30, 36	\$239.00
	110/115 VAC	SCM315UAM-	50, 60, 75, 90, 100, 120, 150, 180	\$248.00
15 W	15 W		250, 300, 360	\$280.00
(1/50 HP)			7. 5, 9, 12.5, 15, 18	\$234.00
	Single-Phase		25, 30, 36	\$241.00
	220/230 VAC		50, 60, 75, 90, 100, 120, 150, 180	\$250.00
			250, 300, 360	\$282.00

Output Power	Power Supply Voltage	Product Name	List Price	
6 W	Single-Phase 110/115 VAC	DSCD6UAM	\$131.00	
(1/125 HP)	Single-Phase 220/230 VAC	DSCD6ECM	\$131.00	
15 W (1/50 HP)	Single-Phase 110/115 VAC	DSCD15UAM	\$132.00	
	Single-Phase 220/230 VAC	DSCD15ECM	Ф132.00	

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
100001	voitage		7.5, 9, 12.5, 15, 18	\$265.00
	Single-Phase		25, 30, 36	\$272.00
	110/115 VAC	SCM425UAM-□	50, 60, 75, 90, 100, 120, 150, 180	\$280.00
25 W			250, 300, 360	\$315.00
(1/30 HP)			7.5, 9, 12.5, 15, 18	\$269.00
	Single-Phase		25, 30, 36	\$276.00
	220/230 VAC	SCM425ECM-□	50, 60, 75, 90, 100, 120, 150, 180	\$284.00
			250, 300, 360	\$319.00
			7. 5, 9 , 12. 5, 15 , 18	\$308.00
	Single-Phase		25, 30, 36	\$316.00
	110/115 VAC	SCM540UAM-□	50, 60, 75, 90, 100, 120, 150, 180	\$323.00
40 W			250, 300	\$388.00
(1/19 HP)			7. 5, 9 , 12.5, 15, 18	\$311.00
	Single-Phase	SCM540ECM-	25, 30, 36	\$319.00
	220/230 VAC	SCM540ECM-	50, 60, 75, 90, 100, 120, 150, 180	\$326.00
			250, 300	\$391.00
			7. 5, 9 , 12.5, 15, 18	\$366.00
	Single-Phase	SCM560UAM-	25, 30, 36, 50, 60, 75, 90, 100	\$377.00
	110/115 VAC	SCMSOUDAM-	120, 150, 180	\$387.00
60 W			250, 300	\$421.00
(1/12 HP)			7. 5, 9 , 12.5, 15, 18	\$371.00
	Single-Phase	SCM560ECM-	25, 30, 36, 50, 60, 75, 90, 100	\$382.00
	220/230 VAC	3CM360ECM-	120, 150, 180	\$392.00
			250, 300	\$426.00
	Single-Phase		7. 5, 9 , 12 . 5, 15, 18	\$384.00
	110/115 VAC	SCM590UAM-□	25, 30, 36, 50, 60	\$404.00
90 W			75 , 90 , 100 , 120 , 150 , 180	\$414.00
(1/8 HP)	Cingle Dhess		7. 5, 9 , 12 . 5, 15, 18	\$389.00
	Single-Phase 220/230 VAC	SCM590ECM-□	25, 30, 36, 50, 60	\$409.00
	220,200 VAO		<i>7</i> 5, 90, 100, 120, 150, 180	\$419.00

Output Power	Power Supply Voltage	Product Name	List Price
25 W	Single-Phase 110/115 VAC	DSCD25UAM	\$132.00
(1/30 HP)	Single-Phase 220/230 VAC	DSCD25ECM	φ132.00
40 W	Single-Phase 110/115 VAC	DSCD40UAM	\$132.00
(1/19 HP)	Single-Phase 220/230 VAC	DSCD40ECM	\$132.00
60 W	Single-Phase 110/115 VAC	DSCD60UAM	\$133.00
(1/12 HP)	Single-Phase 220/230 VAC	DSCD60ECM	\$133.00
90 W (1/8 HP)	Single-Phase 110/115 VAC	DSCD90UAM	\$134.00
	Single-Phase 220/230 VAC	DSCD90ECM	ψ134.00

Connection Cables



9

\$128.00

Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCM	\$47.00
2 m (6.6 ft.)	CC02SCM	\$51.00
3 m (9.8 ft.)	CC03SCM	\$61.00
5 m (16.4 ft.)	CC05SCM	\$80.00

Flexible Connection Cables



Length	Product Name	List Price
1 m (3.3 ft.)	CC01SCMR	\$92.00
2 m (6.6 ft.)	CC02SCMR	\$102.00
3 m (9.8 ft.)	CC03SCMR	\$121.00
5 m (16.4 ft.)	CC05SCMR	\$159.00
10 m (32.8 ft.)	CC10SCMR	\$255.00

Included

10 m (32.8 ft.) **CC10SCM**

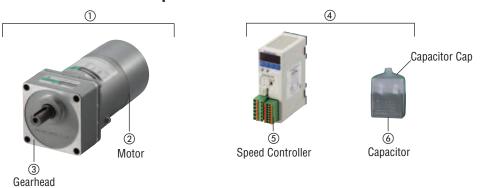
Motor

Туре	Parallel Key	Installation Screws	Operating Manual
Parallel Shaft Gearhead GV Gear	1 pc.	1 Set	1 Copy

Speed Controller

Capacitor	Capacitor Cap	Operating Manual
1 pc.	1 pc.	1 Copy

List of Motor and Speed Controller Combinations



0.1.1		Sp	eed Control Motor		9	Speed Controller	
Output Power	Power Supply Voltage	Product Name	Component Produ	ct Name	Product Name	Compone	ent Product Name
LOMEI		1)	2	3	4	(5)	6
	Single-Phase 100 VAC	SCM26JAM-□	SCM26GV-JAM		DSCD6JAM		CH35FAUL2
6 W	Single-Phase 200 VAC	SCM26JCM-□	SCM26GV-JCM	2GV□B	DSCD6JCM]	CH08BFAUL
(1/125 HP)	Single-Phase 110/115 VAC	SCM26UAM-□	SCM26GV-UAM	ZGVUB	DSCD6UAM]	CH25FAUL2
	Single-Phase 220/230 VAC	SCM26ECM-□	SCM26GV-ECM]	DSCD6ECM		CH06BFAUL
	Single-Phase 100 VAC	SCM315JAM-□	SCM315GV-JAM		DSCD15JAM]	CH55FAUL2
15 W	Single-Phase 200 VAC	SCM315JCM-□	SCM315GV-JCM	3GV□B	DSCD15JCM	1	CH15BFAUL
(1/50 HP)	Single-Phase 110/115 VAC	SCM315UAM-□	SCM315GV-UAM	3GV LB	DSCD15UAM]	CH45FAUL2
	Single-Phase 220/230 VAC	SCM315ECM-□	SCM315GV-ECM	1	DSCD15ECM	1	CH10BFAUL
	Single-Phase 100 VAC	SCM425JAM-□	SCM425GV-JAM		DSCD25JAM]	CH80CFAUL2
25 W	Single-Phase 200 VAC	SCM425JCM-□	SCM425GV-JCM	4GV□B	DSCD25JCM	DSC-MU	CH20BFAUL
(1/30 HP)	Single-Phase 110/115 VAC	SCM425UAM-□	SCM425GV-UAM		DSCD25UAM		CH65CFAUL2
	Single-Phase 220/230 VAC	SCM425ECM-□	SCM425GV-ECM		DSCD25ECM		CH15BFAUL
	Single-Phase 100 VAC	SCM540JAM-□	SCM540GV-JAM		DSCD40JAM		CH110CFAUL2
40 W	Single-Phase 200 VAC	SCM540JCM-□	SCM540GV-JCM	5GV□B	DSCD40JCM		CH30BFAUL
(1/19 HP)	Single-Phase 110/115 VAC	SCM540UAM-□	SCM540GV-UAM		DSCD40UAM]	CH90CFAUL2
	Single-Phase 220/230 VAC	SCM540ECM-□	SCM540GV-ECM		DSCD40ECM]	CH23BFAUL
	Single-Phase 100 VAC	SCM560JAM-□	SCM560GVH-JAM		DSCD60JAM		CH180CFAUL2
60 W	Single-Phase 200 VAC	SCM560JCM-□	SCM560GVH-JCM	5GVH□B	DSCD60JCM]	CH40BFAUL
(1/12 HP)	Single-Phase 110/115 VAC	SCM560UAM-□	SCM560GVH-UAM		DSCD60UAM		CH120CFAUL2
	Single-Phase 220/230 VAC	SCM560ECM-□	SCM560GVH-ECM]	DSCD60ECM]	CH30BFAUL
	Single-Phase 100 VAC	SCM590JAM-□	SCM590GVR-JAM		DSCD90JAM]	CH280CFAUL2
90 W	Single-Phase 200 VAC	SCM590JCM-□	SCM590GVR-JCM	5GVR□B	DSCD90JCM	1	CH70BFAUL
(1/8 HP)	Single-Phase 110/115 VAC	SCM590UAM-□	SCM590GVR-UAM	3GAK B	DSCD90UAM	1	CH200CFAUL2
	Single-Phase 220/230 VAC	SCM590ECM-□	SCM590GVR-ECM	1	DSCD90ECM		CH60BFAUL

A capacitor and a capacitor cap are included with the speed controller product (product name 4).

Deceleration Control Function Integrated with the Electromagnetic Brake Type

The electromagnetic brake type features a deceleration control function which allows speed control during vertical operation and gravitational operation.

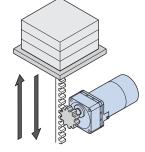
"What is the Deceleration Control Function?"

It is a function that applies brake current automatically to regulate the speed when the motor rotates faster than the setting speed. Even when force is applied in the direction of the motor output shaft's rotation due to vertical operation or an inertial load, the motor can be controlled to meet the setting speed.

"Deceleration Control" ON (Factory setting): Applicable for vertical operation, gravitational operation, horizontal operation, position holding. "Deceleration Control" OFF: Applicable for horizontal operation, position holding. (Variable speed range is expanded.)

Specification values and permissible torque values will differ based on whether the deceleration control is 0N or 0FF.

Item	"Deceleration Control" Parameter ON (Factory Setting)	"Deceleration Control" Parameter OFF
Deceleration Control Function	Enabled	Disabled
Variable Speed Range	300 to 1400 r/min (50 Hz) 300 to 1600 r/min (60 Hz)	90 to 1400 r/min (50 Hz) 90 to 1600 r/min (60 Hz)
Acceleration Time/ Deceleration Time Range	0.2 to 15.0 seconds	0.0 to 15.0 seconds



A capacitor cap is not included with the capacitor product (product name ⑥).

lack A number indicating the gear ratio is specified where the box \Box is located within the product name.

■ Specifications - Continuous Rating

Single-Phase 100 VAC, Single-Phase 200 VAC



Produc	t Name	Maximum Output	Voltage	Frequency	Variable Speed	Current	Power Consumption	Capacitor	Motor Overheat	Electromagnetic Brake (Power off Activated Type)
Parallel Shaft Gearhead	Speed	Power			Range*		Concumption		Protection	Static Friction Torque
GV Gear	Controller	W (HP)	VAC	Hz	r/min	Α	W	μF	Device	mN·m (oz-in)
SCM26JAM-□	DSCD6JAM		Single-Phase 100	50	300 (90) to 1400	0.29	26	3.5	ZP	
JCM20JAM-	DSCDOJAM	6	Siligic-Filase 100	60	300 (90) to 1600	0.23	20	0.0		30 (4.2)
SCM26JCM-□	DSCD6JCM	(1/125)	Single-Phase 200	50	300 (90) to 1400	0.140	27	0.8	ZP	30 (4.2)
SCM20JCM-	DacDojem		Sillyle-Filase 200	60	300 (90) to 1600	0.140	21	0.0	_ ZF	
SCM315JAM-□	DSCD15JAM		Single-Phase 100	50	300 (90) to 1400	0.50	42	5.5	TP	
SCMS I SJAM-	DSCDTSJAM	15	Sillyle-Filase 100	60	300 (90) to 1600	0.50	45	5.5	I I F	00 (11 0)
SCM21EICM -	DSCD15JCM	(1/50)	Cinala Phasa 200	50	300 (90) to 1400	0.25	42	1.5	TP	80 (11.3)
SCM315JCM-□	DSCD13JCM		Single-Phase 200	60	300 (90) to 1600	0.25	45	1.5	IP IP	
CCM40FIAM =	DSCD25JAM		Circle Dhans 100	50	300 (90) to 1400	0.75	62	8.0	TP	
SCM425JAM-□	DSCD25JAM	25	Single-Phase 100	60	300 (90) to 1600	0.75	66	8.0	IP IP	100 (110)
CCM40FICM □	DCCDOE ICM	(1/30)	Circle Dhane 000	50	300 (90) to 1400	0.00	67	0.0	TP	100 (14.2)
SCM425JCM-□	DSCD25JCM		Single-Phase 200	60	300 (90) to 1600	0.38	67	2.0	IP	
CCME 40 IAM	DCCD401444		Circle Dhans 100	50	300 (90) to 1400	1.1	92	11	TP	
SCM540JAM-□	DSCD40JAM	40	Single-Phase 100	60	300 (90) to 1600	1.1	101	- 11	IP IP	000 (00)
SCM540JCM-□	DSCD40JCM	(1/19)	Circle Dhane 000	50	300 (90) to 1400	0.57	94	3.0	TP	200 (28)
SCM540JCM-	DSCD40JCM		Single-Phase 200	60	300 (90) to 1600	0.57	100	3.0	IP IP	
CCME40IAM □	DCCD401AM		Circle Dhans 100	50	300 (90) to 1400	1.0	128	18	TP	
SCM560JAM-□	DSCD60JAM	60	Single-Phase 100	60	300 (90) to 1600	1.6	140	10	IP IP	
CCME401CM □	DECDEOICM	(1/12)	Circle Dhane 000	50	300 (90) to 1400	0.76	128	4.0	TP	
SCM560JCM-□	DSCD60JCM		Single-Phase 200	60	300 (90) to 1600	0.78	140	4.0	IP IP	E00 (71)
COMEONIAM T	DSCD90JAM		Cingle Phone 100	50	300 (90) to 1400	2.4	195	20	TP	500 (71)
SCM590JAM-□	DSCD90JAM	90	Single-Phase 100	60	300 (90) to 1600	2.6	217	28	I IP	
COMEONICH -	DCCDOOLCM	(1/8)	Cinala Dhana 000	50	300 (90) to 1400	1.2	198	7.0	TD	
SCM590JCM-□	-□ DSCD90JCM		Single-Phase 200	60	300 (90) to 1600	1.3	221	7.0	TP	

^{*}The value in parenthesis () can be set when the deceleration control is OFF.

[●] When the deceleration control is set ON, the rated specifications differ. For details, refer to "Common Specifications - Permissible Continuous Operation Time While Deceleration Contr (→ Page 60).

[•] The values in the table are characteristics for the motor only. The valuable speed ranges shown are under no load conditions.

ZP: This indicates that it is impedance protected.

TP: This indicates that there is a built-in thermal protector (automatic return type).

Features

Right-Angle Shaft

Produc	t Name	Maximum Output	Voltage	Frequency	Variable Speed	Current	Power Consumption	Capacitor	Motor Overheat	Electromagnetic Brake (Power off Activated Type
Parallel Shaft Gearhead	Speed	Power			Range*		Concumption		Protection	Static Friction Torque
GV Gear	Controller	W (HP)	VAC	Hz	r/min	Α	W	μF	Device	mN•m (oz-in)
SCM26UAM-□	DSCD6UAM		Single-Phase 110 Single-Phase 115	- 60	300 (90) to 1600	0.28	29	2.5	ZP	
		6	Single-Phase 220	50	300 (90) to 1400					30 (4.2)
SCM26ECM-□	DSCD6ECM	(1/125)	Sillyle-Filase 220	60	300 (90) to 1600	0.135	29	0.6	ZP	30 (4.2)
3CMZOECM-	DSCDOECM		Single-Phase 230	50	300 (90) to 1400	0.133	25	0.0		
			Sillyle-Filase 250	60	300 (90) to 1600					
SCM315UAM-	DSCD15UAM		Single-Phase 110	60	300 (90) to 1600	0.48	46	4.5	TP	
SCMS I SUAM-	DSCDTSUAM		Single-Phase 115	00	300 (90) 10 1600	0.46	40	4.5	IP	
		15	Single-Phase 220	50	300 (90) to 1400		43			80 (11.3)
SCM315ECM-□	DSCD15ECM	(1/50)	Sillyle-Filase 220	60	300 (90) to 1600	0.23	46	1.0	TP	00 (11.3)
JCM3 I JECM-	DSCDTSECM		Single-Phase 230	50	300 (90) to 1400	0.23	44	1.0	ir ir	
			Sillyie-Filase 250	60	300 (90) to 1600		47			
SCM425UAM-□	DSCD25UAM		Single-Phase 110	- 60	300 (90) to 1600	0.75	58	6.5	TP	
3CM423UAM-	D3CD23UAM		Single-Phase 115	00	300 (90) 10 1000	0.75	69	0.5	I I F	
		25	Single-Phase 220	50	300 (90) to 1400					100 (14.2)
SCM425ECM-□	DSCD25ECM	(1/30)	Sillyle-Filase 220	60	300 (90) to 1600	0.37	70	1.5	TP	100 (14.2)
3CM423ECM-	D3CD25ECM		Single-Phase 230	50	300 (90) to 1400	0.37	70	1.5	ir ir	
			Sillyle-Filase 250	60	300 (90) to 1600					
SCM540UAM-□	DSCD40UAM		Single-Phase 110 Single-Phase 115	- 60	300 (90) to 1600	1.1	107	9.0	TP	
		40	0: 1 81 000	50	300 (90) to 1400		96			000 (00)
	200000000000000000000000000000000000000	(1/19)	Single-Phase 220	60	300 (90) to 1600	1	104			200 (28)
SCM540ECM-□	DSCD40ECM		0: 1 81 000	50	300 (90) to 1400	0.55	99	2.3	TP	
			Single-Phase 230	60	300 (90) to 1600	1	105			
COME COLLAND	DCCD (OUAA)		Single-Phase 110	00	000 (00) +- 1000	1.5	144	10	TD	
SCM560UAM-□	DSCD60UAM		Single-Phase 115	- 60	300 (90) to 1600	1.5	145	12	TP	
		60	Cinalo Dhoso 000	50	300 (90) to 1400	0.71	129			
CCME 40ECM -	DCCD40ECM	(1/12)	Single-Phase 220	60	300 (90) to 1600	0.74	143	2.0	TD	
SCM560ECM-□	DSCD60ECM		Cinala Dhana 200	50	300 (90) to 1400	0.72	132	3.0	TP	
			Single-Phase 230	60	300 (90) to 1600	0.74	144			F00 (74)
COMEDOUA 44	DECDOCULANA		Single-Phase 110	60	200 (00) +- 1000	2.4	224	20	TO	500 (71)
SCM590UAM-□	DSCD90UAM		Single-Phase 115	60	300 (90) to 1600	2.5	227	20	TP	
		90	Cinalo Dhoso 000	50	300 (90) to 1400	1.2	201			
COMEONECM -	DECDOOLCH	(1/8)	Single-Phase 220	60	300 (90) to 1600	1.3	226	6.0	TD	
SCM590ECM-□	DSCD90ECM		Cinalo Dhoso 000	50	300 (90) to 1400	1.2	204	6.0	TP	
			Single-Phase 230	60	300 (90) to 1600	1.3	228			

^{*}The value in parenthesis () can be set when the deceleration control is OFF.

[●] When the deceleration control is set ON, the rated specifications differ. For details, refer to "Common Specifications - Permissible Continuous Operation Time While Deceleration Control is ON" (→ Page 60).

[•] The values in the table are characteristics for the motor only. The valuable speed ranges shown are under no load conditions.

 $[\]ensuremath{\mathsf{ZP}}\xspace$ This indicates that it is impedance protected.

TP: This indicates that there is a built-in thermal protector (automatic return type).

■Common Specifications

It	em	Specifications
Speed Setting Metho	od	The speed of the motor output shaft can be set using any of the following methods: Using operation panel Up to four types of operation data can be set. Using an external speed potentiometer Using external DC voltage: 0 to 5 VDC, or 0 to 10 VDC
Acceleration Time an Setting Range	nd Deceleration Time	0.2 to 15.0 s (0.0~15.0 s): can be set when the deceleration control is OFF.) The motor acceleration time and deceleration time vary depending on the load condition.
	Monitor Mode	Speed, Operation Data No., Alarm Code, Warning Code, I/O Monitor
	Data Mode	Speed, Accelerating Time, Decelerating Time, Initialization
Functions	Parameter Mode	Speed Reduction Ratio, Speed Increasing Ratio, Lowest Digit Display Fixed, Prevention of Operation at Power-on Alarm, External Speed Command Input, External Speed, Command Voltage, Selection, External Speed Command OffSet, Speed Upper and Lower Limit, Deceleration Control, Brake Type, Input Function, Selection, Output Function Selection, Motor Lock Detection Time, Motor Rotation Direction, Initialization
	Test Mode	JOG Operation, Electromagnetic Brake Release
	Other Function	Prohibiting Data Editing
Control Power Suppl	y	24 VDC±10% 0.15 A min.
Input Signals		Photocoupler Input, Input Resistance: $4.7 \text{ k}\Omega$ Signal assignment to IN0 to IN5 inputs (6 points) is possible as desired. []: Initial Setting [FWD], [REV], [M0], [M1], [ALARM-RESET], [FREE], EXT-ERROR Source input or sink input can be switched using the selection switch. Factory setting: Sink Input
Output Signals		Photocoupler and Open-Collector Output, External power supply: 4.5 to 30 VDC, 40 mA max. Signal assignment to OUT0 and OUT1 outputs (2 points) is possible as desired. []: Initial setting [SPEED-OUT], [ALARM-OUT], TH-OUT, WNG Source output or sink output can be switched by changing the external wiring.
Protective Function		When any of the following protective functions is activated, the output to the motor is cut off, and the electromagnetic brake is activated to stop the motor. Then the ALARM output will be turned off. At the same, the alarm code will be displayed on the operation panel and the ALARM LED will be lit. Alarm Types: Motor Overheat, Motor Lock, Overspeed, EEPROM Error, Prevention of Operation at Power-On, External Stop
Permissible	6 W (1/125 HP)	Permissible Continuous Operation Time: Continuous Operation Duty: Continuous
Continuous Operation Time While Deceleration	15 W (1/50 HP) 25 W (1/30 HP) 40 W (1/19 HP)	Permissible Continuous Operation Time: 1 minute Operation Duty: 50% max. (e.g. Operation: 1 minute, Stop: 1 minute)
Control is ON	60 W (1/12 HP) 90 W (1/8 HP)	Allowed Time of Continuous Operation: 1 minute Operation Duty: 33% max. (e.g. Operation: 1 minute, Stop: 2 minutes)
Maximum Extension	Length	Between the motor and the speed controller: 10 m (32.8 ft.)

■General Specifications

	Item	Motor	Speed Controller
Insulation Res	sistance	$100\ M\Omega$ or more when 500 VDC megger is applied between the windings and the case after continuous operation under normal ambient temperature and humidity.	100 $\rm M\Omega$ or more when 500 VDC megger is applied between the following places after continuous operation under normal ambient temperature and humidity: \cdot Main Circuit Terminal - Control Circuit Terminal \cdot Main Circuit Terminal - Case \cdot Main Circuit Terminal - FG
Dielectric Stre	ength	Sufficient to withstand 1.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.	Sufficient to withstand the following for 1minute after continuous operation under normal ambient temperature and humidity: · Main Circuit Terminal - Control Circuit Terminal 1.9 kVAC at 50 Hz or 60 Hz · Main Circuit Terminal - Case 1.9 kVAC at 50 Hz or 60 Hz · Main Circuit Terminal - FG 1.5 kVAC at 50 Hz or 60 Hz
Temperature	Rise	The temperature rise of the windings is 80°C (176°F) or less measured by the resistance change method after no-load continuous operation under normal ambient temperature and humidity.	-
Overheat Prot	ection Device	6 W (1/125 HP) Type: Impedance Protected Others: Thermal Protector Built-in (Automatic Return Type) Open: 130±5°C (266±9°F) Close: 85±20°C (185±36°F)	_
	Ambient Temperature	Single-Phase 100 VAC, Single-Phase 200 VAC: -10 to +50°C (+14 to +122°F) (Non-freezing) Single-Phase 110/115 VAC, Single-Phase 220/230 VAC: -10 to +40°C (+14 to +104°F) (Non-freezing)	0 to +40 °C (+32 to +104°F) (Non-freezing)
Operating	Ambient Humidity	85% or less	s (Non-condensing)
Environment	Altitude	Up to 1000 m (3	300 ft.) above sea level
	Surrounding Atmosphere		nould not be exposed to water, oil or other liquids. gnetic field, vacuum or other special environments.
	Vibration	Not subject to continuous vibrations or excessive impact. In confor Frequency Range: 10 to 55 Hz, Pulsating Amplitude: 0.15 mm (0.006	mance with JIS C 60068-2-6 "Sine-wave vibration test method" in.) Sweep Direction: 3 Directions (X, Y, Z), Number of Sweeps: 20 times
	Ambient Temperature	−25 to +70°C (−1:	3 to +158°F) (Non-freezing)
Ctorogo	Ambient Humidity	85% or less	s (Non-condensing)
Storage Condition*	Altitude	Up to 3000 m (10	0000 ft.) above sea level
Condition	Surrounding Atmosphere		nould not be exposed to water, oil or other liquids. gnetic field, vacuum or other special environments.
Thermal Class	S	130 (B)	-
Degree of Pro	tection	IP20	IP20
• The extreme of	and the same transfer of a standard	oriodo quab ao tha pariod during transportation	

^{*}The storage condition applies to short periods such as the period during transportation.

Note

Do not measure insulation resistance or perform the dielectric voltage test while the motor and speed controller are connected.

Right-Angle Shaft

Output Shaft Speed, Permissible Torque and Starting Torque while Deceleration Control is ON (Factory setting)

Description of deceleration control → Page 57

Output Shaft Rotation Speed

Motor Shaft Speed

Low Speed: 300 r/min, High Speed at 50 Hz: 1400 r/min, High Speed at 60 Hz: 1600 r/min

Unit: r/min

Gear Ra	atio	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
High Chood	50 Hz	186	155	112	93	77	56	46	38	28	23	18.6	15.5	14	11.6	9.3	7.7	5.6	4.6	3.8
High Speed -	60 Hz	213	177	128	106	88	64	53	44	32	26	21	17.7	16	13.3	10.6	8.8	6.4	5.3	4.4
Low Speed		40	33	24	20	16	12	10	8.3	6	5	4	3.3	3	2.5	2	1.6	1.2	1	0.83

Permissible Torque and Starting Torque

- When within the variable speed range (50 Hz: 300~1400 r/min, 60 Hz: 300~1600 r/min), permissible torque and starting torque are a constant value.
- During horizontal operation, even when deceleration control is ON, the value is the same as when deceleration control is OFF. Permissible torque and starting torque while deceleration control is OFF → Page 62
- A colored background indicates gear shaft rotation in the same direction as the motor shaft, while the others rotate in the opposite direction.
- A number indicating the gear ratio is specified where the box □ is located within the product name.

Unit: N·m (lb-in)

Gear Ratio Product Name	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
SCM26JAM-□ SCM26JCM-□ SCM26UAM-□ SCM26ECM-□	0.20 (1.77)	0.24 (2.1)	0.34 (2.1)	0.41 (3.6)	0.49 (4.3)	0.68 (6.0)	0.77 (6.8)	0.93 (8.2)	1.3 (11.5)	1.5 (13.2)	1.9 16.8)	2.3 (20)	2.6 (23)	3.1 (27)	3.6 (31)	4.4 (38)	6 (53)	6 (53)	6 (53)
SCM315JAM- SCM315JCM- SCM315UAM- SCM315ECM-	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6.1 (53)	7.3 (64)	10 (88)	10 (88)	10 (88)
SCM425JAM-□ SCM425JCM-□ SCM425UAM-□ SCM425ECM-□	0.54 (4.7)	0.65 (5.7)	0.90 (7.9)	1.1 (9.7)	1.3 (11.5)	1.8 (15.9)	2.1 (18.5)	2.5 (22)	3.4 (30)	4.1 (36)	5.2 (46)	6.2 (54)	6.9 (61)	8.3 (73)	9.7 (85)	11.7 (103)	16 (141)	16 (141)	16 (141)
SCM540JAM-□ SCM540JCM-□ SCM540UAM-□ SCM540ECM-□	0.95 (8.4)	1.1 (9.7)	1.6 (14.1)	1.9 (16.8)	2.3 (20)	3.0 (26)	3.6 (31)	4.3 (38)	6.0 (53)	7.2 (63)	9.0 (79)	10.8 (95)	12.0 (106)	13.6 (120)	17.0 (150)	20.4 (180)	28.4 (250)	30 (260)	_
SCM560JAM-□ SCM560JCM-□ SCM560UAM-□ SCM560ECM-□	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.4 (30)	4.5 (39)	5.4 (47)	6.5 (57)	9.0 (79)	10.8 (95)	13.5 (119)	16.3 (144)	18.1 (160)	20.4 (180)	25.5 (220)	30 (260)	30 (260)	30 (260)	
SCM590JAM-□ SCM590JCM-□ SCM590UAM-□ SCM590ECM-□	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.0 (44)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	19.4 (171)	23.3 (200)	25.9 (220)	31.1 (270)	38.9 (340)	40 (350)	-	-	

Output Shaft Speed, Permissible Torque and Starting Torque while Deceleration Control is OFF

Description of deceleration control → Page 57

Output Shaft Rotation Speed

Motor Shaft Speed

Low Speed: 90 r/min, High Speed at 50 Hz: 1400 r/min, High Speed at 60 Hz: 1600 r/min

Unit: r/min

Gear R	atio	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
High Speed -	50 Hz	186	155	112	93	77	56	46	38	28	23	18.6	15.5	14	11.6	9.3	7.7	5.6	4.6	3.8
nigii speeu -	60 Hz	213	177	128	106	88	64	53	44	32	26	21	17.7	16	13.3	10.6	8.8	6.4	5.3	4.4
Low Speed		12	10	7.2	6	5	3.6	3	2.5	1.8	1.5	1.2	1	0.9	0.75	0.6	0.5	0.36	0.3	0.25

Permissible Torque and Starting Torque

- A colored background indicates gear shaft rotation in the same direction as the motor shaft, while the others rotate in the opposite direction.
- lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

Single-Phase 100 VAC

Unit: N·m (lb-in)

Single-Phase		Gear R																			OIIIL IV	·m (lb-in)
Product Name		Moto aft Spe r/mir	or eed	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
	<u>e</u>	1200	50 Hz	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
	Permissible	1450	60 Hz	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)	6 (53)
SCM26JAM-□	ımi	90	50 Hz	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
JCM20JAM-	P.	30		0.30 (2.6)		. ,	. ,	, ,			, ,	, ,			. ,	. ,	. ,	. ,	. ,	6 (53)	6 (53)	6 (53)
	Qto	arting	50 Hz	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)	6 (53)
	Old	uung	60 Hz	0.27 (2.3)	0.32 (2.8)	0.45 (3.9)	0.54 (4.7)	0.65 (5.7)	0.90 (7.9)	1.0 (8.8)	1.2 (10.6)	1.7 (15.0)	2.1 (18.5)	2.6 (23)	3.1 (27)	3.4 (30)	4.1 (36)	4.9 (43)	5.8 (51)	6 (53)	6 (53)	6 (53)
	e	1200	50 Hz	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
	ssib	1450	60 Hz	0.78 (6.9)	0.93 (8.2)	1.3 (11.5)	1.6 (14.1)	1.9 (16.8)	2.6 (23)	3.0 (26)	3.6 (31)	4.9 (43)	5.9 (52)	7.4 (65)	8.9 (78)	9.9 (87)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315JAM-□	Permissible	90			, ,	. ,	. ,	, ,	. ,	1.3 (11.5)	, ,	, ,	. ,		, ,	, ,	, ,	, ,	, ,	. ,	, ,	. ,
Jamo I JJAM -	ڇ	30		0.36 (3.1)	. ,		, ,	, ,	. ,		, ,	. ,			, ,	, ,	, ,	. ,	, ,	, ,	, ,	. ,
	Sta	arting		0.59 (5.2)	- ' '	- ' '	_ ,	, ,	. ,	. ,	. ,	. ,	. ,	- ' '	, ,	, ,	, ,	. ,	, ,	. ,	, ,	· ,
	0	aung	60 Hz	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	2.0 (17.7)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
	sible	1200		1.4 (12.3)	, ,	· ,	. ,	. ,	. ,	. ,	` '	` '	. ,	· '	· '	` '	. ,	, ,	16 (141)	, ,	' '	· '
	Permissible			. ,	, ,	, ,	, ,	, ,	. ,	5.2 (46)	. ,	. ,				٠,	, ,	, ,	16 (141)	, ,	16 (141)	16 (141)
SCM425JAM-□	Per	(90		. ,	. ,	. ,	, ,	. ,	1.4 (12.3)	, ,	. ,			. ,	- ' '	. ,	. ,	, ,	, ,	. ,	16 (141)
	Sta	arting		0.88 (7.7)												. ,	13.4 (118)	. ,	, ,	16 (141)	` ′	16 (141)
				0.91 (8.0)													13.9 (123)	, ,	- ()	. ,	- (/	16 (141)
	Permissible	1200		2.2 (19.4)	, ,	, ,	, ,	, ,	. ,	. ,	. ,	. ,	. ,		, ,	. ,	, ,	, ,	30 (260)	. ,	. ,	_
	mis			2.0 (17.7)	, ,	, ,	, ,	, ,	. ,	. ,	. ,	. ,	. ,		, ,	, ,		, ,	30 (260)	. ,	' '	
SCM540JAM-□	Pel	(90		. ,	, ,	. ,	, ,		2.1 (18.5)	. ,	. ,	. ,		, ,	, ,	, ,	. ,	. ,	. ,	. ,	_
	Sta	arting		1.2 (10.6)	. ,	. ,	, ,	, ,			. ,	. ,			. ,		. ,		26.2 (230)	, ,	` ′	_
				1.3 (11.5)													. ,	. ,	27.7 (240)	, ,	· /	_
	sible	1200		3.3 (29)	, ,	, ,	, ,	, ,			. ,	. ,	. ,	, ,	, ,	. ,	, ,	, ,	30 (260)	, ,	' '	_
	Permissible			3.0 (26)	, ,	, ,	, ,	, ,	, ,	- ' '	. ,	. ,	<u> </u>	- ' '	` '	, ,	, ,	, ,	30 (260)	, ,	' '	
SCM560JAM-□	8	(90	, ,	. ,	, ,	. ,	1 /	. ,	2.8 (24)	` '	٠,	` '	. ,	. ,	. ,	1 /	13.4 (118)	(/	22.3 (197)	. (,	_
	Starti	arting		2.2 (19.4)	· '	· ′	. ,	. ,	. ,	· '	١ /	1 /	. ,	\ /	· '	. ,	, ,	, ,	30 (260)		(,	_
	43	1.00-	_	2.2 (19.4)	. ,	, ,	, ,	, ,	. ,			. ,	· ·		· ,		30 (260)	, ,	30 (260)		30 (260)	
	Permissible	1200		4.9 (43)	<u> </u>	· '	, ,	, ,	. ,	18.8 (166)	, ,	. ,	· ,	, ,	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	
SCM590JAM-	rmis	_		4.9 (43)	, ,	, ,	, ,	. ,	, ,	18.6 (164)	. ,	. ,	. ,	, ,	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	_
	Pe		90	. ,	. ,	. ,	. ,	, ,	. ,	2.8 (24)	` '	. ,	· '	. ,	. ,	. ,	. ,	13.4 (118)	16 (141)	_	_	_
		Startii	ng	3.2 (28)	3.8 (33)	5.3 (46)	0.3 (55)	7.3 (64)	10.1 (89)	12.1 (10/)	14.6 (129)	20.2 (178)	24.3 (210)	28.b (250)	34.3 (300)	JS.1 (330)	40 (350)	40 (350)	40 (350)	_	_	

Output Shaft Speed, Permissible Torque and Starting Torque while Deceleration Control is OFF

Description of deceleration control → Page 57

Single-Phase 200 VAC

Unit: N·m (lb-in)

		Gear R	atio																			
Product Name	M	otor Sh Speed r/min		7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
	a)	1200	50 Hz	0.30 (2.6)	0.36 (3.1)	0.50 (4.4)	0.59 (5.2)	0.71 (6.2)	0.99 (8.7)	1.1 (9.7)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.4 (30)	3.8 (33)	4.5 (39)	5.3 (46)	6 (53)	6 (53)	6 (53)	6 (53)
	Permissible	1450	60 Hz	0.31 (2.7)	0.37 (3.2)	0.52 (4.6)	0.62 (5.4)	0.75 (6.6)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	4.0 (35)	4.7 (41)	5.6 (49)	6 (53)	6 (53)	6 (53)	6 (53)
SCM26JCM-□	rmis	90	50 Hz	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
	Pe	90	60 Hz	0.31 (2.7)	0.37 (3.2)	0.52 (4.6)	0.62 (5.4)	0.75 (6.6)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	2.4 (21)	3.0 (26)	3.6 (31)	4.0 (35)	4.7 (41)	5.6 (49)	6 (53)	6 (53)	6 (53)	6 (53)
		Startii	ng	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (53)	6 (53)
	ple	1200	50 Hz	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315JCM-□	Permissible	1450	60 Hz	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCMS I SJCM-	Peri	ę	90	0.38 (3.3)	0.45 (3.9)	0.63 (5.5)	0.76 (6.7)	0.91 (8.0)	1.3 (11.5)	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.9 (25)	3.6 (31)	4.3 (38)	4.8 (42)	5.8 (51)	6.8 (60)	8.2 (72)	10 (88)	10 (88)	10 (88)
		Startii	ng	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	2.0 (17.7)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
	ible	1200	50 Hz	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.3 (29)	4.6 (40)	5.3 (46)	6.3 (55)	8.8 (77)	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)
SCM425JCM-□	Permissible	1450	60 Hz	1.4 (12.3)	1.6 (14.1)	2.3 (20)	2.7 (23)	3.2 (28)	4.5 (39)	5.2 (46)	6.2 (54)	8.6 (76)	10.3 (91)	12.9 (114)	15.5 (137)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)
3CM423JCM-	Peri	ć	90	0.37 (3.2)	0.45 (3.9)	0.62 (5.4)	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.4 (12.3)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.5 (30)	4.3 (38)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	11.1 (98)	13.4 (118)	16 (141)
		Startii	ng	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10.3 (91)	12.4 (109)	14.6 (129)	16 (141)	16 (141)	16 (141)	16 (141)
	ible	1200	50 Hz	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
SCM540JCM-□	Permissible	1450	60 Hz	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
3CM3403CM-	Peri	Ś	90	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	8.7 (76)	10.9 (96)	13.1 (115)	18.2 (161)	21.9 (193)	_
		Startii	ng	1.3 (11.5)	1.5 (13.2)	2.1 (18.5)	2.6 (23)	3.1 (27)	4.1 (36)	4.9 (43)	5.9 (52)	8.2 (72)	9.8 (86)	12.3 (108)	14.7 (130)	16.3 (144)	18.5 (163)	23.1 (200)	27.7 (240)	30 (260)	30 (260)	_
	e	1200	50 Hz	3.3 (29)	4.0 (35)	5.5 (48)	6.6 (58)	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	21.1 (186)	25.3 (220)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
	Permissible	1450	60 Hz	2.9 (25)	3.5 (30)	4.8 (42)	5.8 (51)	7.0 (61)	9.2 (81)	11.1 (98)	13.3 (117)	18.5 (163)	22.2 (196)	27.7 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
SCM560JCM-□	ermi	90	50 Hz	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.5 (13.2)	1.9 (16.8)	2.3 (20)	2.8 (24)	3.9 (34)	4.6 (40)	5.8 (51)	7.0 (61)	7.7 (68)	8.7 (76)	10.9 (96)	13.1 (115)	18.2 (161)	21.9 (193)	_
3CM3003CM-	4	30	60 Hz	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.4 (12.3)	1.6 (14.1)	2.2 (19.4)	2.6 (23)	3.1 (27)	4.3 (38)	5.2 (46)	6.5 (57)	7.7 (68)	8.6 (76)	9.7 (85)	12.2 (107)	14.6 (129)	20.3 (179)	24.3 (210)	_
	Qt:	arting	50 Hz	2.2 (19.4)	2.6 (23)	3.6 (31)	4.3 (38)	5.2 (46)	6.9 (61)	8.3 (73)	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	24.8 (210)	27.5 (240)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
	Oil	urung	60 Hz	2.3 (20)	2.8 (24)	3.8 (33)	4.6 (40)	5.5 (48)	7.3 (64)	8.8 (77)	10.5 (92)	14.6 (129)	17.5 (154)	21.9 (193)	26.3 (230)	29.2 (250)	30 (260)	30 (260)	30 (260)	30 (260)	30 (260)	_
	ele	1200		4.9 (43)	. ,	· /	_ ' /	. ,	. ,	. ,	22.6 (200)	1 /	1 /	40 (350)	40 (350)	40 (350)	40 (350)	, ,	40 (350)	-	_	_
	issik	1450	60 Hz	4.9 (43)	5.9 (52)	8.2 (72)	9.9 (87)	11.3 (100)	15.7 (138)	18.8 (166)	22.6 (200)	31.4 (270)	37.7 (330)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	_
SCM590JCM-□	Permissible	90	50 Hz	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.6 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.3 (64)	8.7 (76)	9.7 (85)	11.7 (103)	14.6 (129)	17.5 (154)	-	_	_
J 3.115 / 03 0111 -	P	30	60 Hz	0.74 (6.5)	0.89 (7.8)	1.2 (10.6)	1.5 (13.2)	1.7 (15.0)	2.4 (21)	2.8 (24)	3.4 (30)	4.7 (41)	5.7 (50)	6.7 (59)	8.0 (70)	8.9 (78)	10.7 (94)	13.4 (118)	16 (141)	_	_	_
	Str	arting	50 Hz	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	7.4 (65)	10.3 (91)	. ,	` '	` '	. ,	29.2 (250)	` '	38.9 (340)	40 (350)	40 (350)	40 (350)	_	_	_
	Ju	uiuiy	60 Hz	3.4 (30)	4.1 (36)	5.7 (50)	6.9 (61)	7.9 (69)	11.0 (97)	13.2 (116)	15.8 (139)	21.9 (193)	26.3 (230)	31.0 (270)	37.2 (320)	40 (350)	40 (350)	40 (350)	40 (350)	-	_	_

Single-Phase 110/115 VAC

Unit: N·m (lb-in)

	(Gear Ra	atio																			
Product Name		otor Sh Speed r/min		7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	36
	Permissible	14	150	0.34 (3.0)	0.41 (3.6)	0.56 (4.9)	0.68 (6.0)	0.81 (7.1)	1.1 (9.7)	1.3 (11.5)	1.5 (13.2)	2.2 (19.4)	2.6 (23)	3.2 (28)	3.9 (34)	4.3 (38)	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (5
CM26UAM-□	Permi	9	90	0.26 (2.3)	0.31 (2.7)	0.43 (3.8)	0.51 (4.5)	0.62 (5.4)	0.86 (7.6)	0.98 (8.6)	1.2 (10.6)	1.6 (14.1)	2.0 (17.7)	2.5 (22)	2.9 (25)	3.3 (29)	3.9 (34)	4.6 (40)	5.5 (48)	6 (53)	6 (53)	6 (
		Startir	ng	0.27 (2.3)	0.32 (2.8)	0.45 (3.9)	0.54 (4.7)	0.65 (5.7)	0.90 (7.9)	1.0 (8.8)	1.2 (10.6)	1.7 (15.0)	2.1 (18.5)	2.6 (23)	3.1 (27)	3.4 (30)	4.1 (36)	4.9 (43)	5.8 (51)	6 (53)	6 (53)	6
	iple	1450	110 V	0.81 (7.1)	0.97 (8.5)	1.4 (12.3)	1.6 (14.1)	1.9 (16.8)	2.7 (23)	3.1 (27)	3.7 (32)	5.2 (46)	6.2 (54)	7.7 (68)	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10
	Permissible	1400	115 V	0.84 (7.4)	1.0 (8.8)	1.4 (12.3)	1.7 (15.0)	2.0 (17.7)	2.8 (24)	3.2 (28)	3.9 (34)	5.4 (47)	6.5 (57)	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10
CM315UAM-	Per	6		0.30 (2.6)	, ,	` '	. ,	, ,	, ,	, ,	, ,	, ,	. ,	. ,	, ,	, ,	, ,	. ,	, ,	. ,	. ,	_
	Sta	ırtina		0.57 (5.0)	, ,	` '	, ,	, ,	, ,	, ,	` ′	` ′	` '	` '	` ′	` '	, ,	` '	` '	` '	` '	_
	42	ı		0.61 (5.3)		· ·		, ,	- '	. ,		, ,		· ·	<u> </u>		. ,		. ,	. ,	· , ,	_
	Permissible	14	150	1.4 (12.3)	1.7 (15.0)	2.3 (20)	2.8 (24)	3.3 (29)	4.6 (40)	5.3 (46)	6.3 (55)	8.8 (77)	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16
M425UAM-□	Perm	ξ	90	0.30 (2.6)	0.36 (3.1)	0.51 (4.5)	0.61 (5.3)	0.73 (6.4)	1.0 (8.8)	1.2 (10.6)	1.4 (12.3)	1.9 (16.8)	2.3 (20)	2.9 (25)	3.5 (30)	3.9 (34)	4.6 (40)	5.5 (48)	6.6 (58)	9.1 (80)	10.9 (96)	13.
	Sta	ırting		0.84 (7.4)	, ,	· '	_ ' /	, ,	· ,	. ,	· ,	, ,	· ,	· ,	· ,	. ,	, ,	. ,	, ,	, ,	· ,	-
		9	115 V	0.91 (8.0)	1.1 (9.7)	1.5 (13.2)	1.8 (15.9)	2.2 (19.4)	3.0 (26)	3.5 (30)	4.2 (37)	5.8 (51)	7.0 (61)	8.7 (76)	10.4 (92)	11.6 (102)	13.9 (123)	16 (141)	16 (141)	16 (141)	16 (141)	16
	Permissible	14		2.2 (19.4)	. ,	. ,	- ' '	, ,	. ,	. ,	. ,	, ,		. ,		. ,	, ,	, ,	, ,	. ,	, ,	
M540UAM-□	Perm	9		0.47 (4.1)	, ,	. ,	, ,	()	, ,	, ,	, ,	` '	, ,	` '	` '	, ,	, ,	` '	(/	, ,	` '	
	Sta	ırting		1.2 (10.6)	, ,	, ,	. ,	, ,	. ,	. ,	. ,	. ,	, ,	. ,	٠,	. ,	, ,	. ,	, ,	, ,	` /	
		9		1.3 (11.5)																		
	Permissible	1450		3.1 (27)	. ,	· , ,	. ,	. ,		. ,		, ,	· ' '	· ,	<u> </u>	· , ,	, ,	, ,	, ,	. ,	, ,	L
	rmis			3.3 (29)	. ,		- ' '	, ,						, ,	<u>'</u>	, ,	, ,	. ,	, ,	. ,	. ,	
M560UAM-□	Pe	6		0.54 (4.7)	,	` '	, ,	, ,	, ,	, ,	` ′	` ′	` '	` '	` '	, ,	, ,	` '	, ,	. ,	. ,	
	Sta	ırting		1.8 (15.9)	1 /	` '	_ ' '	, ,	. ,	. ,	. ,	. ,	, ,	1 /	1 /	1 /	, ,	. ,	, ,	, ,	` /	
		_		1.9 (16.8)	. ,	. ,	_ , ,	, ,		<u> </u>	· , ,	, ,			<u> </u>	. ,		. ,	, ,	30 (260)	30 (260)	L
	Permissible			4.9 (43)	. ,	. ,	- ' '	. ,		. ,	. ,		. ,	, ,	<u>'</u>	, ,	, ,	, ,	, ,	_	_	
M590UAM-□	Perr	6		0.57 (5.0)	, ,	` '	, ,	, ,	, ,	, ,	` '	` '	, ,	` '	` '	, ,	, ,	, ,	, ,	_		
	Sta	ırting		2.7 (23)	` '	` '	. ,	, ,	. ,	. ,	. ,	. ,	, ,	` '	٠, ,	1 /	, ,	, ,	, ,	_	_	
			115 V	3.0 (26)	3.6 (31)	5.0 (44)	5.9 (52)	6.8 (60)	9.5 (84)	11.4 (100)	13.6 (120)	18.9 (167)	22.7 (200)	26.7 (230)	32.1 (280)	35.6 (310)	40 (350)	40 (350)	40 (350)	_	_	

Output Shaft Speed, Permissible Torque and Starting Torque while Deceleration Control is OFF

Description of deceleration control → Page 57

Single-Phase 220/230 VAC

Unit: N·m (lb-in)

		Gear	Ratio																			
Product Name		Motor	Shaft	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
Troduct Name		Spe	1	7.5	,	12.5	.5					50		'	70			.50		250		000
		r/m																				
		1200	220 V 50 Hz	. ,	- ' '			. ,			<u>' '</u>	, ,	- '		. ,	. ,	. ,	. ,	6 (53)	6 (53)	6 (53)	6 (53)
	d)		230 V 50 Hz	(/	0.37 (3.2)	. ,	1 /	. ,	. ,	1.2 (10.6)	1.4 (12.3)	2.0 (17.7)	· ,	3.0 (26)	. ,	4.0 (35)	. ,	- ' '	6 (53)	6 (53)	6 (53)	6 (53)
	Permissible	1450	220 V 60 Hz	. ,		1 /	0.62 (5.4)	. ,	, ,			, ,	2.4 (21)	- ' '	. ,	, ,	4.7 (41)	, ,	6 (53)	6 (53)	6 (53)	6 (53)
	mis		230 V 60 Hz	. ,	0.41 (3.6)	, ,	0.68 (6.0)	. ,	. ,	1.3 (11.5)	' '	. ,	2.6 (23)	· '	. ,	4.3 (38)	. ,	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
SCM26ECM-□	Pel		220 V 50/60Hz	. (-7		(,	. ,	0.65 (5.7)	. ,	1.0 (8.8)	1.2 (10.6)	. ,	· ,	2.6 (23)	. ,	. ,	. ,		5.8 (51)	6 (53)	6 (53)	6 (53)
		90	230 V 50 Hz	(/	0.30 (2.6)	. ,	0.50 (4.4)	0.60 (5.3)	. ,	0.95 (8.4)	1.1 (9.7)	1.6 (14.1)	· , ,	2.4 (21)	. ,	, ,	. ,	4.5 (39)	. ,	6 (53)	6 (53)	6 (53)
			230 V 60 Hz	(-)	. ,	. ,	0.53 (4.6)	. ,	. ,	1.0 (8.8)	1.2 (10.6)	1.7 (15.0)	, ,	2.5 (22)	. ,	. ,	4.0 (35)	. ,	5.7 (50)	6 (53)	6 (53)	6 (53)
			220 V 50/60Hz	0.30 (2.6)	0.36 (3.1)	. ,	1 /	0.71 (6.2)		1.1 (9.7)	1.4 (12.3)	. ,	2.3 (20)	- ' '	. ,	, ,	. ,	5.3 (46)	6 (53)	6 (53)	6 (53)	6 (53)
	Sta	arting	230 V 50 Hz	, ,	, ,	, ,	1 /	. ,	, ,	1.1 (9.7)	1.4 (12.3)	, ,	. ,	2.8 (24)	. ,	. ,	4.5 (39)	5.3 (46)	6 (53)	6 (53)	6 (53)	6 (53)
			230 V 60 Hz	. ,	. ,		0.68 (6.0)	. ,	, ,	· ·	<u> </u>		· ,	3.2 (28)	. ,	· '	5.2 (46)	6 (53)	6 (53)	6 (53)	6 (53)	6 (53)
	ple	1200	50 Hz	0.84 (7.4)	, ,	, ,	1.7 (15.0)	, ,	. ,	3.2 (28)	· ,	5.4 (47)	\ /	8.1 (71)	9.7 (85)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
	Permissible	1450	220 V 60 Hz	. (,	0.89 (7.8)	(1.5 (13.2)	1.8 (15.9)	. ,	2.8 (24)	- ' '	. ,	<u> </u>	7.1 (62)	. ,	· '	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
	erm		230 V 60 Hz	. ,	. ,	, ,	, ,	1.9 (16.8)	. ,	3.1 (27)	. ,	, ,	6.2 (54)	· '	9.3 (82)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)	10 (88)
SCM315ECM-□	_		90	- (-7	(.)	(,	1 /	0.65 (5.7)		1.0 (8.8)	1.2 (10.6)	, ,	2.1 (18.5)	. ,	. ,	3.4 (30)	. ,		` '	8.1 (71)	. ,	10 (88)
			220 V 50/60Hz	- ' '	. ,	· ,	1 /	1.1 (9.7)	, ,	1.7 (15.0)	2.1 (18.5)	. ,	· ,		. ,	. ,	. ,	8.1 (71)	9.8 (86)	10 (88)	10 (88)	10 (88)
	Sta	arting	230 V 50 Hz	. ,	0.58 (5.1)	· '	, ,	1.2 (10.6)	. ,	<u> </u>	2.2 (19.4)	. ,	. ,	4.6 (40)	. ,	, ,	7.4 (65)	, ,	10 (88)	10 (88)	10 (88)	10 (88)
			230 V 60 Hz	· '	0.66 (5.8)	0.91 (8.0)	` '			- '		. ,	4.2 (37)		6.3 (55)	. ,	8.4 (74)	. ,	10 (88)	10 (88)	10 (88)	10 (88)
	Permissible	1200	50 Hz	1.4 (12.3)	. ,	` '	\ /	3.3 (29)	. ,	5.3 (46)	6.3 (55)	- ' '	10.6 (93)	13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)	16 (141)
	mis	1450	60 Hz	1.4 (12.3)			. ,		, ,	5.3 (46)	6.3 (55)			13.2 (116)	15.9 (140)	16 (141)	16 (141)	16 (141)	16 (141)	, ,	16 (141)	16 (141)
SCM425ECM-□	Pel		90	0.27 (2.3)	0.32 (2.8)	. ,		0.65 (5.7)	, ,	1.0 (8.8)	, ,	. ,	, ,	· , ,	. ,	. ,	` '	. ,	5.8 (51)	. ,	, ,	11.7 (103)
	Sta	arting	220 V 50/60Hz	. ,	0.89 (7.8)	, ,	1.5 (13.2)	1.8 (15.9)	. ,	2.8 (24)	- ' '	, ,	. ,	7.1 (62)	, ,	. ,	11.4 (100)	13.4 (118)	` '	, ,	16 (141)	16 (141)
			230 V 50/60Hz	. ,	0.97 (8.5)	, ,	1.6 (14.1)	1.9 (16.8)	. ,	3.1 (27)	. ,		· '		9.3 (82)	10.3 (91)	12.4 (109)	14.6 (129)	16 (141)	16 (141)	16 (141)	16 (141)
	ple	1200	50 Hz	1 /	. ,	` '	4.3 (38)	. ,	. ,	. ,	9.9 (87)	13.8 (122)	16.5 (146)	20.6 (182)	, ,	27.5 (240)	, ,	30 (260)	30 (260)	30 (260)	30 (260)	_
	Permissibl	1450	60 Hz		2.6 (23)	. ,	. ,	5.2 (46)	, ,	8.3 (73)	9.9 (87)	13.8 (122)	· ,	20.6 (182)	, ,	. ,	, ,	30 (260)	30 (260)	30 (260)	30 (260)	_
SCM540ECM-□	erm	90	50 Hz	. ,	. ,	, ,		1.1 (9.7)		1.7 (15.0)	<u> </u>	- ' '	- ' '	4.2 (37)	. ,	. ,	. ,		9.5 (84)	13.2 (116)	15.8 (139)	_
	_		60 Hz	. ,		, ,	. ,	1.1 (9.7)		1.8 (15.9)	2.2 (19.4)	, ,	. ,		, ,	6.0 (53)	. ,	. ,	10.2 (90)	14.2 (125)	17 (150)	_
			rting	1.3 (11.5)	1.5 (13.2)	- 1	` '	3.1 (27)	. ,	4.9 (43)	. ,	- ' '	· ' /	12.3 (108)	14.7 (130)	16.3 (144)	18.5 (163)	23.1 (200)	27.7 (240)	30 (260)	30 (260)	_
		1200	50 Hz	, ,	. ,	· ' /	. ,	7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	. ,	25.3 (220)	30 (260)	, ,	, ,	, ,	30 (260)	30 (260)	30 (260)	30 (260)	_
	a)	1450	220 V 60 Hz	. ,	. ,	, ,	. ,	, ,	9.9 (87)		14.2 (125)	. ,		29.7 (260)	. ,	· '	30 (260)	, ,	30 (260)	30 (260)	30 (260)	_
	sible		230 V 60 Hz	. ,	-	· ' /		7.9 (69)	10.5 (92)	12.6 (111)	15.2 (134)	. ,	· '	30 (260)	, ,	, ,	30 (260)	, ,	30 (260)	30 (260)	30 (260)	_
	Permissib		220 V 50 Hz	. ,	0.65 (5.7)	. ,	. ,	1.3 (11.5)	. ,	2.1 (18.5)		3.4 (30)		5.2 (46)	. ,	· , ,	7.8 (69)	, ,	11.7 (103)	16.2 (143)	19.4 (171)	_
	Per	90	220 V 60 Hz	. ,		- ' '	. ,	1.2 (10.6)		1.9 (16.8)	2.3 (20)	- ' '	- ' '	4.8 (42)	` '	, ,	7.3 (64)	, ,	10.9 (96)	15.2 (134)	18.2 (161)	_
SCM560ECM-□			230 V 50 Hz	. ,	. ,			1.4 (12.3)	, ,	2.2 (19.4)	2.6 (23)		-	5.5 (48)		7.3 (64)		10.3 (91)	12.4 (109)	17.2 (152)	20.7 (183)	_
			230 V 60 Hz	. ,		- ' '	-	1.3 (11.5)		2.1 (18.5)	- ' '	- ' '	4.1 (36)	- ' '	- ' '	, ,	7.8 (69)	, ,	11.7 (103)	16.2 (143)	19.4 (171)	_
			220 V 50 Hz	- (/	, ,	` '		4.5 (39)	, ,	· ,	8.7 (76)	12.0 (106)	14.4 (127)	18.1 (160)	. ,		. ,	30 (260)	30 (260)	30 (260)	30 (260)	_
	Sta	arting	220 V 60 Hz	<u> </u>		. ,	. ,	4.7 (41)		7.5 (66)	9.0 (79)	12.5 (110)	15.0 (132)	18.7 (165)	, ,	` '	. ,	30 (260)	30 (260)	30 (260)	30 (260)	_
		9	230 V 50 Hz	1 /	. ,	` /	. ,	. ,	6.2 (54)	· ,	9.0 (79)	12.5 (110)	15.0 (132)	18.7 (165)	. ,	24.9 (220)	, ,	30 (260)	30 (260)	30 (260)	30 (260)	_
			230 V 60 Hz			. ,	` '	4.9 (43)	. ,	<u> </u>	9.3 (82)	12.9 (114)	· ·	19.4 (171)	. (,	25.8 (220)		30 (260)	30 (260)	30 (260)	30 (260)	_
	sible	1200	50 Hz		5.9 (52)	. ,	. ,	11.3 (100)		18.8 (166)		31.4 (270)		40 (350)	, ,	` '	40 (350)	, ,	40 (350)	_	_	_
	Permissible	1450	60 Hz		5.9 (52)	. ,	, ,	11.3 (100)		18.8 (166)	. ,	, ,	١, ,	40 (350)	, ,	, ,	, ,	40 (350)	40 (350)	_	_	_
	Per		90	. ,	0.77 (6.8)	, ,		1.5 (13.2)		· · ·	2.9 (25)	- ' '	. ,	5.8 (51)	. ,	. ,	. ,	11.5 (101)	13.9 (123)	_	_	_
SCM590ECM-□			220 V 50 Hz	· '	, ,	· , ,	. ,	7.6 (67)	10.5 (92)	12.6 (111)	15.2 (134)	, ,	25.3 (220)	29.8 (260)	, ,	39.7 (350)	, ,	40 (350)	40 (350)	_	_	_
	Sta	arting	220 V 60 Hz	- ' '		- ' '		7.7 (68)	10.8 (95)	12.9 (114)	15.5 (137)	- ' '	25.8 (220)	30.4 (260)	36.5 (320)	40 (350)		40 (350)	40 (350)	_	_	
		19	230 V 50 Hz	, ,	. ,	, ,	. ,	8.0 (70)	11.2 (99)	13.4 (118)	. ,	22.4 (198)	26.8 (230)	31.6 (270)	37.9 (330)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	_
			230 V 60 Hz	3.6 (31)	4.3 (38)	6.0 (53)	7.2 (63)	8.2 (72)	11.4 (100)	13.7 (121)	16.4 (145)	22.8 (200)	27.3 (240)	32.2 (280)	38.6 (340)	40 (350)	40 (350)	40 (350)	40 (350)	_	_	

Permissible Radial Load and Permissible Axial Load

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Standard

0.1575 + 0

 $(0.1969^{+0.0016})$

(0.1575-0.0000)

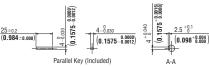
2.5 +0.1 (0.098+0.004)

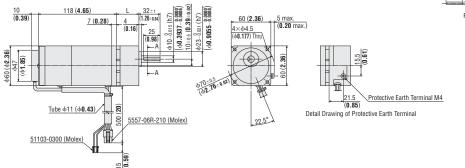
Dimensions [Unit: mm (in.)]

- "Installation screws" are included. Dimensions for installation screws → Page 43
- lacktriangle A number indicating the gear ratio is specified where the box \Box is located within the product name.

Parallel Shaft Gearhead GV Gear

♦ 6 W (1/125 HP)					2	0 & 3D CAD
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD
SCM26JAM-□	SCM26GV-JAM		7.5 to 25	34 (1.34)	1.5 (3.3)	A1297A
SCM26JCM-□ SCM26UAM-□	SCM26GV-JCM SCM26GV-UAM	2GV□B	30 to 120	38 (1.50)	1.5 (3.3)	A1297B
SCM26ECM-□	SCM26GV-ECM		150 to 360	43 (1.69)	1.6 (3.5)	A1297C



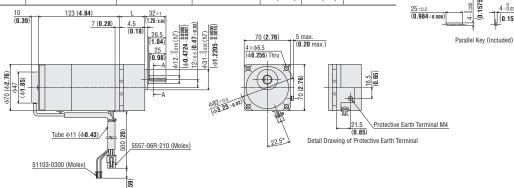


2D & 3D CAD

2D & 3D CAD

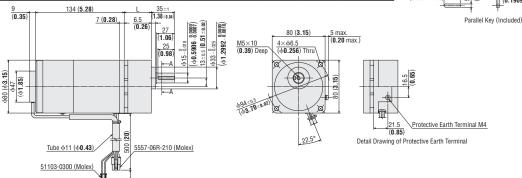
♦ 15 W (1/50 HP)

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD	
SCM315JAM-□	SCM315GV-JAM		7.5 to 25	38 (1.50)	2.0 (4.4)	A1298A	
SCM315JCM-□ SCM315UAM-□	SCM315GV-JCM	36.50	3GV□B	30 to 120	43 (1.69)	2.1 (4.6)	A1298B
SCM315ECM-□	SCM315GV-ECM		150 to 360	48 (1.89)	2.2 (4.8)	A1298C	

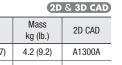


♦25 W (1/30 HP)

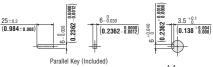
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD	
SCM425JAM-□	SCM425GV-JAM		7.5 to 25	41 (1.61)	3.0 (6.6)	A1299A	
SCM425JCM-□ SCM425UAM-□	SCM425GV-JCM SCM425GV-JJAM	SCM425GV-JCM SCM425GV-UAM 4GV□B	4GV□B	30 to 120	46 (1.81)	3.1 (6.8)	A1299B
SCM425ECM-□	SCM425GV-ECM		150 to 360	51 (2.01)	3.2 (7.0)	A1299C	

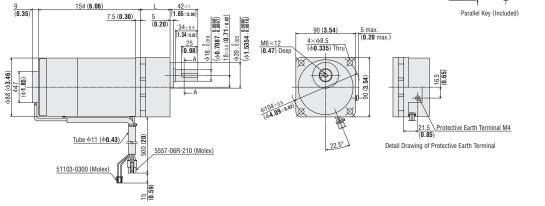


♦40 W (1/19 HP)



Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD
SCM540JAM-□	SCM540GV-JAM		7.5 to 18	45 (1.77)	4.2 (9.2)	A1300A
SCM540JCM-□ SCM540UAM-□	SCM540GV-JCM SCM540GV-UAM	5GV□B	25 to 100	58 (2.28)	4.5 (9.9)	A1300B
SCM540ECM-□	SCM540GV-ECM		120 to 300	64 (2.52)	4.6 (10.1)	A1300C

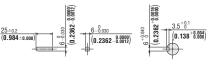


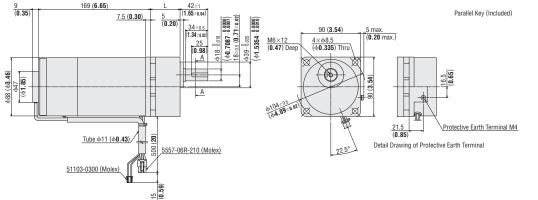


♦60 W (1/12 HP)



Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD
SCM560JAM-□	SCM560GVH-JAM	5GVH□B	7.5 to 18	45 (1.77)	4.8 (10.6)	A1301A
SCM560JCM-□ SCM560UAM-□	SCM560GVH-JCM SCM560GVH-UAM		25 to 100	58 (2.28)	5.1 (11.2)	A1301B
SCM560ECM-□	SCM560GVH-ECM		120 to 300	64 (2.52)	5.2 (11.4)	A1301C





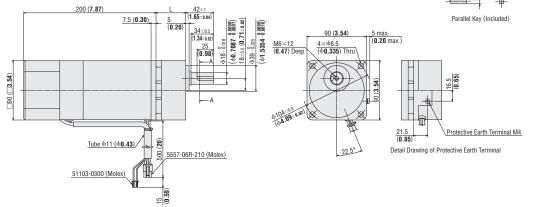
◇90 W (1/8 HP)

2D	ß	3D	CA	D

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg (lb.)	2D CAD
SCM590JAM-□	SCM590GVR-JAM		7.5 to 15	45 (1.77)	5.0 (11.0)	A1302A
SCM590JCM-□ SCM590UAM-□	SCM590GVR-JCM SCM590GVR-UAM SCM590GVR-ECM	5GVR□B	18 to 36	58 (2.28)	5.4 (11.9)	A1302B
SCM590ECM-□			50 to 180	70 (2.76)	5.5* (12.1)	A1302C



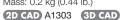
 \slash The mass of the product with gear ratios of $\bf 50$ and $\bf 60$ is 5.4 kg. (11.9 lb.)

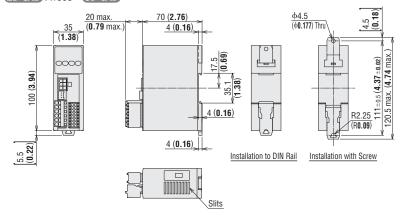


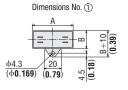
Speed Controller

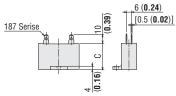
DSC-MU

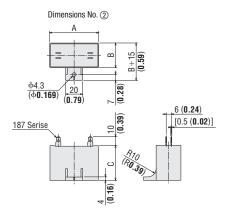
Mass: 0.2 kg (0.44 lb.)











• Capacitor Dimensions [Unit: mm (in.)]

0 10 1 11			Capacito	r		
Speed Controller Product Name	Product Name	А	В	С	Mass g (oz.)	Dimension No.
DSCD6JAM	CH35FAUL2	31 (1.22)	17 (0.67)	27 (1.06)	22 (0.78)	
DSCD6JCM	CH08BFAUL	31 (1.22)	17 (0.67)	27 (1.06)	23 (0.81)	
DSCD6UAM	CH25FAUL2	31 (1.22)	17 (0.67)	27 (1.06)	21 (0.74)	
DSCD6ECM	CH06BFAUL	31 (1.22)	14.5 (0.57)	23.5 (0.93)	18 (0.64)	
DSCD15JAM	CH55FAUL2	38 (1.50)	21 (0.83)	31 (1.22)	35 (1.24)	
DSCD15JCM	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	
DSCD15UAM	CH45FAUL2	37 (1.46)	18 (0.71)	27 (1.06)	26 (0.92)	
DSCD15ECM	CH10BFAUL	37 (1.46)	18 (0.71)	27 (1.06)	27 (0.95)	
DSCD25JAM	CH80CFAUL2	48 (1.89)	21 (0.83)	31 (1.22)	41 (1.45)	0
DSCD25JCM	CH20BFAUL	48 (1.89)	19 (0.75)	29 (1.14)	36 (1.27)	
DSCD25UAM	CH65CFAUL2	48 (1.89)	19 (0.75)	29 (1.14)	35 (1.24)	
DSCD25ECM	CH15BFAUL	38 (1.50)	21 (0.83)	31 (1.22)	37 (1.31)	
DSCD40JAM	CH110CFAUL2	58 (2.28)	21 (0.83)	31 (1.22)	49 (1.73)	
DSCD40JCM	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	
DSCD40UAM	CH90CFAUL2	48 (1.89)	22.5 (0.89)	31.5 (1.24)	45 (1.59)	
DSCD40ECM	CH23BFAUL	48 (1.89)	21 (0.83)	31 (1.22)	43 (1.52)	
DSCD60JAM	CH180CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	2
DSCD60JCM	CH40BFAUL	58 (2.28)	23.5 (0.93)	37 (1.46)	73 (2.6)	
DSCD60UAM	CH120CFAUL2	58 (2.28)	22 (0.87)	35 (1.38)	60 (2.1)	
DSCD60ECM	CH30BFAUL	58 (2.28)	21 (0.83)	31 (1.22)	50 (1.77)	1
DSCD90JAM	CH280CFAUL2	58 (2.28)	35 (1.38)	50 (1.97)	140 (4.9)	
DSCD90JCM	CH70BFAUL	58 (2.28)	35 (1.38)	50 (1.97)	138 (4.9)	
DSCD90UAM	CH200CFAUL2	58 (2.28)	29 (1.14)	41 (1.61)	91 (3.2)	2
DSCD90ECM	CH60BFAUL	58 (2.28)	29 (1.14)	41 (1.61)	92 (3.2)	

A capacitor and a capacitor cap are included with the speed controller product.

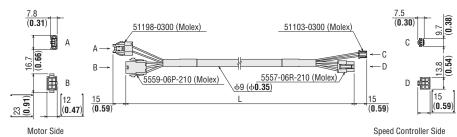
A capacitor cap is not included with the capacitor product.

Connection Cable

Product Name	Length L [m (ft.)]
CC01SCM	1 (3.3.)
CC02SCM	2 (6.6)
CC03SCM	3 (9.8)
CC05SCM	5 (16.4)
CC10SCM	10 (32.8)

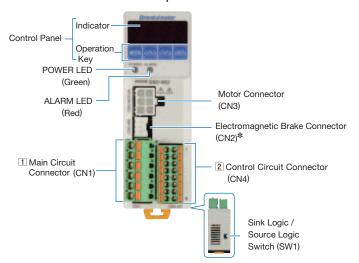
Flexible Connection Cable

Product Name	Length L [m (ft.)]
CC01SCMR	1 (3.3.)
CC02SCMR	2 (6.6)
CC03SCMR	3 (9.8)
CC05SCMR	5 (16.4)
CC10SCMR	10 (32.8)



■Connection and Operation

Names and Functions of Speed Controller Parts



	Name	Description		
Control Indicator (4 digit LED)		Displays speed, parameters, alarms, etc.		
Panel	Operation Key	Switches operating mode, sets operating data and changes parameters.		
POWER LED (Green)		Lights when the AC power supply is provided to the speed controller.		
ALARM LEI (Red)	D	Lights when an alarm is generated.		
Motor Coni (CN3)	nector	Connects to the motor connector.		
Electromaç Connector	gnetic Brake (CN2)*	Connects to the electromagnetic brake connector.		
Main Circu (CN1)	it Connector	Connects to the AC power supply, capacitor and FG.		
Control Circ (CN4)	cuit Connector	Connects the DC power supply for control and I/O signal.		
Source Logic/ Sink Logic Switch		Switches between the source logic and sink logic for the input signal.		

^{*}Only the electromagnetic brake type is connected.

1 Main Circuit Connector (CN1)

Pin No.	Contents	Description
1	Capacitor	Connects the capacitor
2	Capacitoi	Connects the capacitor
3	N.C.	Not connected.
4	AC Power Supply	Connects to the live side.
5	Зарріу	Connects to the neutral side.
6	FG	Connects to the ground wire.

2 Control Circuit Connector (CN4)

Pin No.	Signal Name	Function*1	Description
1	+24 V	DC Power Supply	Connects the 24 VDC power supply for control circuit.
2	0 V (GND)	for Control	Confidence to the 24 voc power supply for control circuit.
3	IN0	[FWD]	The motor rotates in the forward direction while this signal is being "0N." *2
4	IN1	[REV]	The motor rotates in the reverse direction while this signal is being "ON."*2
5	IN2	[M0]	These signals are used to select the energian data
6	IN3	[M1]	These signals are used to select the operation data.
7	IN4	[ALARM-RESET]	This signal is used to reset the alarm.
8	IN5	[FREE]	If the FREE input is turned ON while the motor is operated, the motor will coast to a stop. If the FWD input or REV input is turned ON while the FREE input is being ON, the motor will not rotate. For electromagnetic brake type, if the FREE input is turned "ON," the electromagnetic brake will be released.
9	VH	F 1101	Occupied to the second
10	VM	External Speed Setting Input	Connects when speed is set externally using the external speed potentiometer or external DC voltage.
11	VL	Setting input	potentionieter of external DC voltage.
12	N.C.	_	Not connected.
13	OUT0+	ICDEED OUT	10 - 1
14	OUTO-	[SPEED-OUT]	12 pulses are output with each revolution of the motor output.
15	0UT1+	TALADMA OLIT	This signal will be output when an alarm generates.
16	0UT1-	[ALARM-OUT]	(Normally closed)

 ¹ Text inside the [] represents the factory default function assignment. The following signals can be assigned as necessary to 6 input signal terminals (INO to IN5) and 2 output signal terminals (OUT0, OUT1).
 6 of the 7 input signals (FWD, REV, MO, M1, ALARM-RESET, FREE, EXT-ERROR)
 2 of the 4 output signals (SPEED-OUT, ALARM-OUT, TH-OUT, WNG)

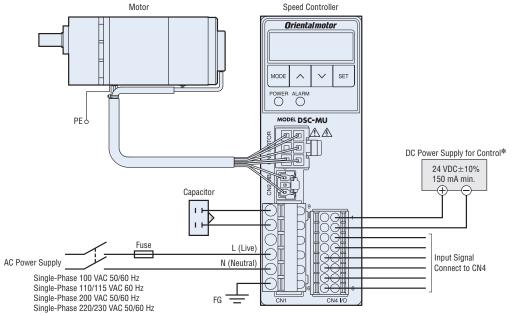
^{*2} Rotation direction varies depending on the gear ratio of the gearhead and the parameter settings.

Standard

Electromagnetic Brake

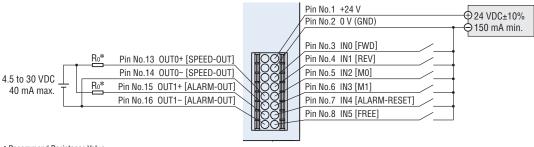
Connection Diagram

The figure shows a connection example for the electromagnetic brake type. Always connect the DC power supply for control when operating the motor in addition to the AC power supply.



*Use a power supply with reinforced insulation on the primary and secondary sides for the DC power supply for control.

The figure shows a connection example when operating with a contact switch, such as switches and relays with sink logic setting.



*Recommend Resistance Value

24 VDC: 680 Ω to 4.7 k Ω (2 W) $\,$ 5 VDC: 150 Ω to 1 k Ω (0.5 W)

Note

Connect a limiting resistor R0 that corresponds to the power supply used, so that the current that flows with the output signals does not exceed 40 mA.

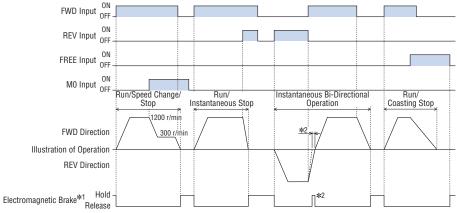
○Rating of Fuse

For overcurrent protection, be sure to insert a fuse into the power supply line.

	•	
Euro Poting	Single-Phase 100/110/115 VAC	216 Series (Littelfuse, Inc.) 10 A or equivalent
Fuse Rating	Single-Phase 200/220/230 VAC	216 Series (Littelfuse, Inc.) 6.3 A or equivalent

Timing Chart

Operating data No.0 has been set to 1200 r/min and operating data No.1 has been set to 300 r/min.



- After setting the speed, when the FWD or REV input is set to ON, the motor is rotated at the set speed.
- During motor operation, when the signal that is ON (either FWD or REV input) is turned OFF, the motor will perform a deceleration stop within the set deceleration time.
- If the FWD input and REV input are turned ON simultaneously, the motor will stop instantaneously.
- For electromagnetic brake types, the motor stops and the brake is simultaneously activated.

- $\ensuremath{\,\mathbf{\ast}} 1$ Only for electromagnetic brake type.
- *2 Only for electromagnetic brake type. Holds while "deceleration control" parameter is ON, and time lag occurs during motor standstill (approx. 0.1 seconds). Does not hold when "deceleration control" parameter is OFF. There is no time lag, either.

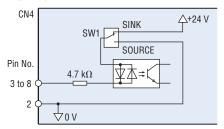
Note

●I/O Signal Circuits

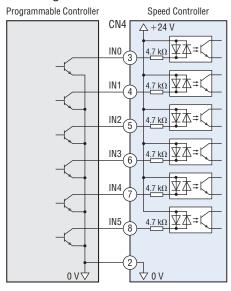
Sink logic or source logic can be selected according to the external control device the customer is using.

♦ Input Circuit

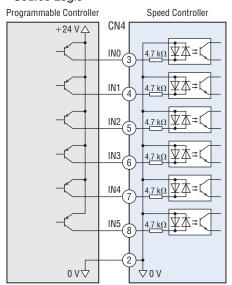
IN0~IN5



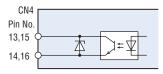
Sink Logic



•Source Logic

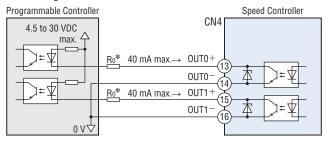


Output Circuit OUT0, OUT1

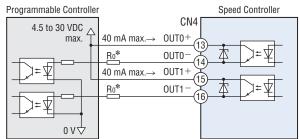


○Connection to Programmable Controller

Sink Logic



• Source Logic



*Recommended Resistance Value

24 VDC: 680 Ω to 4.7 k Ω (2 W) $\,$ 5 VDC: 150 Ω to 1 k Ω (0.5 W) $\,$ Note

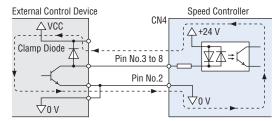
Maintain the current value of OUTO and OUT1 at 40 mA or less. If this current value is exceeded, connect the limiting resistor RO.

When an External Control Device with a Built-in Clamp Diode is Used

If an external control device with a built-in clamp diode is connected and the external control device is turned off when the speed controller power is on, current may flow in and rotate the motor. Also, depending on the external control device used with the speed controller, the motor may rotate even when the power supply is set to ON and OFF simultaneously. Use the following procedure to turn the power ON or OFF.

When turning the power off: Speed controller \rightarrow External control device

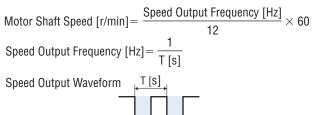
When turning the power on: External control device → Speed controller



♦ Speed Output

Pulse signals of 12 pulses are output at every rotation of the motor output shaft in synchronization with the motor operation.

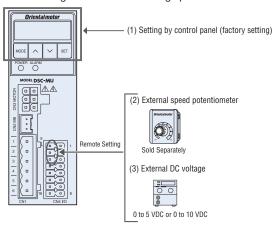
If the speed output frequency is measured, the motor speed can be calculated.



Electromagnetic Brake

Speed Setting Method

The following 3 methods for setting speed can be used.



Up to 4 operating data can be set.

By switching the M0 and M1 inputs between ON and OFF, the pattern can be selected and the motor will operate.

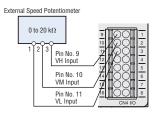
Operation Data No.	M1	M0	Description	
0	0FF	0FF	OFF Setting by control panel or remote setting*	
1	OFF	ON		
2	ON	0FF	F Setting by control panel	
3	ON	ON		

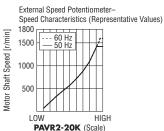
*When the "external speed command input" parameter is set to "ON (enable)" (initial setting: OFF), the rotation speed can be set using an external speed potentiometer or external DC voltage.

♦ Setting by External Speed Potentiometer

Connect the external speed potentiometer to CN4.

"External speed command voltage selection" parameter setting: "0-5" (Initial value)

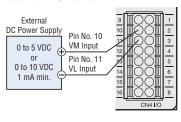


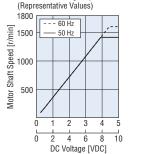


♦ Setting by External DC Voltage

Connect the external DC power supply (0 to 5 VDC or 0 to 10 VDC) to CN4.

"External speed command voltage selection" parameter setting: 0 to 5 VDC "0-5" (Initial value) 0 to 10 VDC "0-10"





External DC Voltage-Speed Characteristics

Note

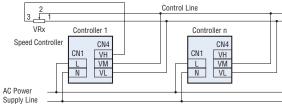
 Ensure that the external DC voltage is 10 VDC or less. When connecting the external DC voltage, ensure that the polarity is correct. Otherwise, it may damage the speed controller.

Parallel-Motor Control

Multiple motors can be operated at the same speed using 1 external speed potentiometer or external DC voltage.

♦ Using an External Speed Potentiometer

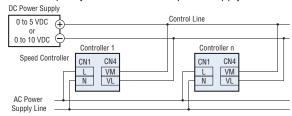
Parallel-motor operation using the external speed potentiometer (VRx) should be performed with a maximum of 20 speed controllers.



• The Calculation Method of the Resistance Value (VRx) when the Number of Speed Controllers Connected is n

Resistance Value (VRx)=20/n (k Ω), Permissible Loss=n/20 (W) Example: When two speed controllers are connected Resistance value (VRx)=20/2=10 (k Ω), Permissible loss=2/20=1/10 (W)

The number of connected units will be limited depending on the current capacity of the external DC power supply.



 The Calculation Method of the Current Capacity of the External DC Power Supply (I) when the Number of Speed Controllers Connected is n

Current Capacity (I)=1×n (mA)

Example: When two speed controllers are connected Current capacity (I)= $1\times2=2$ (mA)

Repetitive Operation Cycle

When the motor is operated repeatedly in short cycles, use the cycles below as a reference, and ensure that the motor's external temperature is at 90° C (194° F) or less.

Instantaneous Stop	6 W to 40 W (1/125 HP to 1/19 HP)	When operation and instantaneous stops are repeated 2 seconds min., operating duty 50% max. (Example: 1 second operating, 1 second stopped)	
	60 W, 90 W (1/12 HP, 1/8 HP)	When operation and instantaneous stops are repeated 4 seconds min., operating duty 50% max. (Example: 2 seconds operating, 2 seconds stopped)	
Instantaneous Bi-Directional Operation	6 W to 40 W (1/125 HP to 1/19 HP)	When rotation direction is repeatedly switched during operation Switch once every 2 seconds min.	
	60 W, 90 W (1/12 HP, 1/8 HP)	When rotation direction is repeatedly switched during operation Switch once every 4 seconds min.	

● On the electromagnetic brake type, continuous operation conditions occur when the "deceleration control" parameter is set to ON. Check the electromagnetic brake type "Common Specifications - Permissible Continuous Operation Time While Deceleration Control is ON" (→ Page 50)

Brake Current

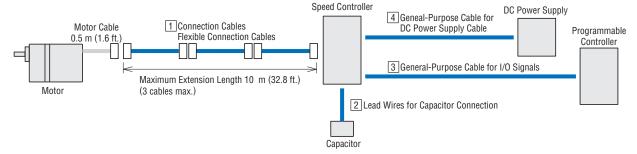
When performing an instantaneous stop, bi-directional operation or vertical operation*, the large brake current flows for approximately 0.4 seconds on a half-wave rectified AC power supply line. When performing these kinds of operations, select the equipment breaker and AC power supply capacitance by referring to the table's braking current (peak value).

_			
Motor Output	Brake Current (Peak Value)		
Power	Single-Phase 100/110/115 VAC	Single-Phase 200/220/230 VAC	
6 W (1/125 HP)	2 A	1 A	
15 W (1/50 HP)	4 A	3 A	
25 W (1/30 HP)	8 A	4 A	
40 W (1/19 HP)	12 A	7 A	
60 W (1/12 HP)	21 A	10 A	
90 W (1/8 HP)	29 A	13 A	

Cables and Accessories (Sold Separately)

Cables

Cable System Configuration



1 Connection Cables / Flexible Connection Cables

These cables are used to connect the motor and the speed controller. When extending the cables, the overall length of the cables should not exceed 10 m (32.8 ft.) (maximum of 3 connected cables). Use the flexible connection cable in applications where the cable is bent and flexed.

Product Line

♦ Connection Cables for Standard Type (CC_SC)

Product Name		Length L [m (ft.)]	List Price
	CC01SC	1 (3.3)	\$35.00
CC02SC		2 (6.6)	\$39.00
CC03SC		3 (9.8)	\$49.00
CC05SC		5 (16.4)	\$68.00
CC10SC		10 (32.8)	\$116.00



Product Name	Length L [m (ft.)]	List Price
CC01SCR	1 (3.3)	\$68.00
CC02SCR	2 (6.6)	\$78.00
CC03SCR	3 (9.8)	\$97.00
CC05SCR	5 (16.4)	\$135.00
CC10SCR	10 (32.8)	\$231.00



○ Connection Cables for Electromagnetic Brake Type (CC_SCM)

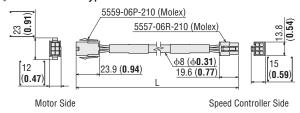
Length L [m (ft.)]	List Price
1 (3.3)	\$47.00
2 (6.6)	\$51.00
3 (9.8)	\$61.00
5 (16.4)	\$80.00
10 (32.8)	\$128.00
	1 (3.3) 2 (6.6) 3 (9.8) 5 (16.4)



Product Name	Length L [m (ft.)]	List Price
CC01SCMR	1 (3.3)	\$92.00
CC02SCMR	2 (6.6)	\$102.00
CC03SCMR	3 (9.8)	\$121.00
CC05SCMR	5 (16.4)	\$159.00
CC10SCMR	10 (32.8)	\$255.00



Dimensions [Unit: mm (in.)]





2 Lead Wires for Capacitor Connection

Includes lead wire with a terminal that can be connected to the capacitor terminal as it is.

Product Line

Product Name	Set Content	List Price
LCCN0510	White: 5 pcs. Red: 5 pcs.	\$14.00







Use with the capacitor cap

Application example

Electromagnetic Brake

3 Cables for I/O Signals

General-purpose multi-core cables provide convenient connection between a speed controller and host controller.

General-Purpose Type

- Employs a double shield cable (Core wire: AWG24)
- Separated wires on both sides
- Equips ground wire with round terminal for easy shield grounding



Product Line

Product Name	Length L [m (ft.)]	List Price
CC16D005B-1	0.5 (1.6)	\$22.00
CC16D010B-1	1 (3.3)	\$25.00
CC16D015B-1	1.5 (4.9)	\$28.00
CC16D020B-1	2 (6.6)	\$31.00

■ The available I/O signal cable general-purpose types are those with 6 cores (CCO6D□B-1), 10 cores (CC10D□B-1) and 12 cores (CC12D□B-1). Select the cable with most suitable number of cores according to the function you will use. For details on the products, contact with Oriental Motor sales office.

4 Cables for DC Power Supply

These cables connect the speed controller and DC power supply.

Product Line

Product Name	Length L [m (ft.)]	List Price
CC02D005-3	0.5 (1.6)	\$14.00
CC02D010-3	1 (3.3)	\$16.00
CC02D015-3	1.5 (4.9)	\$18.00
CC02D020-3	2 (6.6)	\$20.00
CC02D050-3	5 (16.4)	\$23.00



Flexible Couplings

These products are clamp type couplings to connect a motor or gearhead shaft to the shaft of the equipment. Once the motor or gearhead is determined, the proper coupling can be selected.

Couplings can also be used with round shaft types. Select a coupling with the same inner diameter size as the motor shaft diameter.



Series		MCL	
Appearance of the Products			
Coupling Type		Jaw	
Features		3 piece structure of polyurethane elastic body and aluminum alloy hub. The elastic body allows misalignment. Improve installation work because elastic body and hub can be easily separated. It is suitable for gearmotor that are used as source of power since the permissible transmission torque is large.	
	Torque	©	
Characteristics*2	Torsional Rigidity	Δ	
Unaracter ISHCS -	Permissible Misalignment	0	
Vibration Absorption		0	
Connection Method		Clamp Type	
Materials	Hub	Aluminum Alloy	
Malchais	Sleeve/Vibration Absorption	Polyurethane	

^{*1} Made by NBK Nabeya Bi-tech Kaisha

⊚: Excellent ○: Good △: Slightly inferior

MCL Couplings

Applicable Product	Load Type	Coupling Type	List Price
SCM425K ■ ◇-4L□B	Uniform Load	MCL40	\$88.00
	Impact Load	MCL55	\$113.00
SCM540K ○-5L B	Uniform Load	MCL55	\$113.00
SCM590K □ ♦-5L□B	Impact Load	MCL65	\$171.00

[■] Either JA, JC, UA, or EC indicating the power supply voltage is specified where the box ■ is located within the applicable product name.

A code M indicating that the product is with an electromagnetic brake is specified where the box \diamondsuit is located within the applicable product name.

A number indicating the gear ratio is specified where the box \square is located within the applicable product name.

◇Parallel Shaft Gearhead GV Gear

Applicable Product	Load Type	Coupling Type	List Price
SCM26	Uniform Load	MCL30	\$60.00
	Impact Load	MCLSU	
SCM315	Uniform Load	MCL30	\$60.00
	Impact Load	MCL40	\$88.00
SCM425	Uniform Load	MCL40	\$88.00
	Impact Load	MCL55	\$171.00
SCM540 SCM560	Uniform Load	MCL55	\$171.00
SCM590	Impact Load	MCLSS	\$171.00

Capacitor Mounting Bracket

Allows you to connect capacitors on DIN rails.

Material: SPCC

Surface treatment: Trivalent

chromate

◇Product Name: PADP01C

List Price: \$8.00



<Application Example>

Speed Controller Mounting Bracket

It can be mounted directly on the wall.

Material: SPCC

Surface treatment: Electroless nickel plating By pulling the lever on the back of the speed controller up and down,

it can also be installed using the lever mounting hole.

◇Product Name: MAFP02

List Price: \$8.00



^{*2} Evaluation of the characteristics are as follows;

Electromagnetic Brake

Torque Arms

Prevents the gearhead from spinning due to reaction force from the driven shaft when a right-angle hollow shaft hypoid JH gear is installed.

Product Line

Product Name	List Price	Applicable Product	Main Specifications
TAF2S-12-NS	\$24.00	SCM425K ■ ◇-4H□B	Material: SS400
TAF2S-15-NS	ድር በር	SCM540K ■ ◇-5H□B	Surface Treatment: Trivalent
	\$25.00	SCM590K ■ ◇-5H□B	Chromate

lacktriangle Either JA, JC, UA, or EC indicating the power supply voltage is specified where the box lacktriangle is located within the applicable product name.

A code ${\bf M}$ indicating that the product is with an electromagnetic brake is specified where the box \diamondsuit is located within the applicable product name.

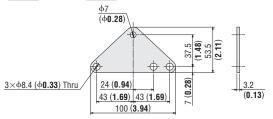
A number indicating the gear ratio is specified where the box \square is located within the applicable product name.

Dimensions [Unit: mm (in.)]

♦ TAF2S-12-NS

Mass: 75 g (2.6 oz.)

2D CAD A1608 3D CAD



Motor and Gearhead Mounting Brackets

These dedicated mounting brackets are for mounting motors and gearheads.

Product Name	List Price	Applicable Product
SOL2M4F	\$22.00	SCM26 Round Shaft Type SCM26 Parallel Shaft Gearhead GV Gear
SOL3M5F	\$26.00	SCM315 Round Shaft Type
SOL3M6F	\$25.00	SCM315 Parallel Shaft Gearhead GV Gear
SOL4M5F	\$28.00	SCM425 Round Shaft Type
SOL4M6F	\$27.00	SCM425 Parallel Shaft Gearhead GV Gear
SOL5M6F	\$30.00	SCM540, SCM560, SCM590 Round Shaft Type
SOL5M8F	\$29.00	SCM540, SCM560, SCM590 Parallel Shaft Gearhead GV Gear

External Speed Potentiometer

Features

- Potentiometer which allows the adjustment of rotation speed and torque.
- Easy installation Simply insert the potentiometer into the mounting hole. No tools are required. It can be removed.
- Easy wiring

A terminal block is employed. Lead wire connection or soldering is not required.

The efficiency of wiring is improved.





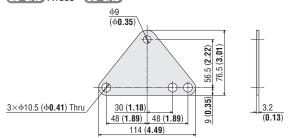


TAF2S-15-NS



♦TAF2S-15-NS

Mass: 125 g (4.4 oz.) 2D CAD A1609 3D CAD





Product Line

Product Name	List Price	
PAVR2-20K	\$23.00	

The following items are included in each product. External speed potentiometer, operating manual

Note

The external speed potentiometer (PAVR2-20K) cannot be used together with a general purpose cable for I/O signals.

Specifications

Resistance : 0 to 20 k Ω Rate power : 0.05 W

Resistance change

characteristics : B curve

• Applicable Lead Wire Size

AWG22 to 18 (0.3 to 0.75 mm²)

Basic Speed Controller

AC Speed Control Motor

US2 Series





Designed using the same base motor in our **DSC** Series, the **US2** combines easy to use functions with stylish design, making speed control possible with its simple wiring, intuitive interface and powerful functions. The **US2** is our simplest, most effective Speed Controller.

Features

- · Intuitive "Turn and Click" operation.
- · A built-in capacitor and simple wiring.
- · Setting of acceleration and deceleration time allows for smooth start and stop operation.
- · Speed regulation (at load) of $\pm 1\%$ * (reference value)
- · Uses **KII** Series motor with built-in high-performance gears

*****0 to permissible torque 1000 r/min

 $Specifications \ are \ subject \ to \ change \ without \ notice. \ This \ catalog \ was \ published \ in \ October, \ 2019.$

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