

Drivers



Part Name	
Part Number	
Primary Functions	Driving Motor
	Drive System
	Driving Current (A/phase)
	Excitation System
	Number of Divisions
	Input Signal
	Input Logic
	Max. Response Frequency
	Auto Current Down OFF Input
	Motor Excitation OFF Input
General Specifications	Micro-step Selection Input
	Origin Excitation Timing Output
	Input Voltage
	Operating Temperature Range
	External Dimensions (W×H×Dmm)
	Weight (kg)

Stage	Motor Used	Basic Step Angle [°]	Phase Current [A/phase]	External Dimensions [W×H×Dmm] (excluding shaft)
OSMS40-5ZF-0B SGSP-ACT series	PK513PA-C21 PK513PB-C9	0.72	0.35	20×20×72
OSMS20-35 OSMS20-85 HDS-60 series	TS3664N4E10		0.75	24×24×31
OSMS-40/60YAW series	TS3664N4E10			24×24×31
OSMS26 OSMS60-ZF SGSP-60A/B TAMM OSMS-40/60 OSMS-80/120/160YAW HPS HDS-80/120 series	PK523HPB-C12	0.036	0.75	28×28×32
OSMS80-20ZF-0B	PK525HPB-C4			28×28×51.5
OSMS33 series	A7177-90215KTG			28×28×61.3
HST-120/160YAW series	TS3667N43E967	0.72	1.4	42×42×47
HST-50 / HST(GS)-50 HST-100 / HST(GS)-100 HST-200 / HST(GS)-200 series	PKP546N18B			60×60×56.5
	PKP544N18B PKP546N18B			60×60×46.5 60×60×57.5 60×60×87



Compact Driver	Compact Driver	Compact Micro-step Driver	Micro-step Driver	Micro-step Driver
SG-5MA	SG-5M	MC-S0514ZU	SG-514MSC	MC-7514PCL
5-phase stepping motor				
Bipolar constant current pentagon drive				
0.25 – 0.85	0.5 – 1.4	0.35 – 1.4	0.3 – 1.4	0.5 – 1.4
Full/Half step		Micro-step	Micro-step	Micro-step
Two types 1, 2		16 types*1 1, 2, 4, 5, 8, 10, 16, 20, 25, 40, 50, 80, 100, 125, 200, 250	16 types 1, 2, 2.5, 5, 8, 10, 20, 25, 40, 50, 80, 100, 125, 200, 250	16 types 1, 2, 4, 5, 8, 10, 16, 20, 25, 40, 50, 80, 100, 125, 200, 250
1 clock input method 2 clock input method		1 clock input method 2 clock input method	2 clock input method	1 clock input method 2 clock input method
Photocoupler input		Photocoupler input	C-MOS equivalent negative logic input*2	Photocoupler input
50kpps		500kpps	500kpps	500kpps
None		None	None	Equipped
Equipped		Equipped	Equipped	Equipped
None		Switching by the number of division setting switch	4 bit signal input	Switching by the number of division setting switch
None		Equipped	Equipped	Equipped
DC20 – 40V 1.5A Max	DC20 – 40V 3A Max	DC24 ±5% 3A Max	For motor drive: DC24 – 36V ±10% 2A or lower For logic: DC5V ±5% 0.1A or lower	AC100 – 230V±10% 50/60Hz 3.5A Max
0 – 40°C		0 – 40°C	0 – 40°C	0–40°C
77×32×45		99×28×47	91×36×70	170×130×39
0.1		0.1	0.2	0.75

*1: Dip switch can be used for switching 2 series/3 series
*2: PGC-14-U; Not compatible

○	×	○	○	×
○	○	○	○	○
○	○	○	○	○
○*	○	○	○	○
○*	○	○	○	○
○*	○	○	○	○
○*	○	○	○	○
○*	○	○	○	○
×	○	○	○	○
×	○	○	○	○

* Can be used with 0.75A/phase.