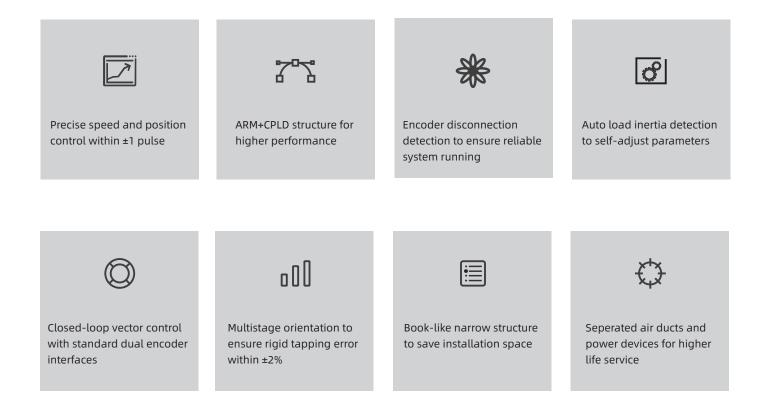
### SD500-Series Spindle Servo System



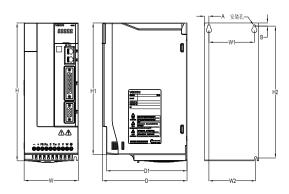


#### SD500-Series Spindle Servo Name Rules

# $\frac{\text{SD}}{(1)} \frac{500}{2} - \frac{5\text{R5}}{(3)} \frac{\text{D}}{(4)} - \frac{\text{P}}{(5)} \frac{\text{B}}{(6)}$

1	<b>SD</b> Servo product code	4	Rated voltage D: 380V AC
2	<b>500</b> Spindle servo-series product	(5)	<b>Drive type</b> P: pulse-type L: MECHATROLINK III bus type E: EtherCAT bus type
3	Rated power    004:4KW  018:18kW    5R5:5.5KW  022:22kW    7R5:7.5KW  030:30kW    011:11KW  037:37kW    015:15KW	6	<b>Encoder type</b> B: incremental square wave type Z: incremental sine and cosine type

#### **Installation Dimensions**



Model	Outer dimension(mm)					Installation dimension (mm)					Installation	
Model	W	н	H1	D	O    D1    W1    W2    H2    A    B      56    149    84    86.5    231.5    8    5.5	aperture						
SD500-004D-*	100	242	231	156	140	0.4	0.C F	221 5	0		3-M4	
SD500-5R5D-*	100	242	231	120	149	84	80.5	231.5	8	5.5	3-1014	
SD500-7R5D-*		220	207 5	170	1.00		100	007.5		6	2.145	
SD500-011D-*	116	320	307.5	176	169	98	100	307.5	9	6	3-M5	

H H2	Ŧ	•	D	• • •
			 	0

Model	Outer dimension(mm)					Installation dimension (mm)					Installation	
Model	W	н	Н1	D	D1	W1	W2	H2	А	В	aperture	
SD500-015D-*	145 4	424.5	387	242	/	100	00 100	411.5	23	8	4-M5	
SD500-018D-*												
SD500-022D-*												
SD500-030D-*	185	471	433	242	1	140	140	457	22	8.75	4-M6	
SD500-037D-*	105	4/1			/	140	1-+0					

#### Models for Selection

Model	Input power	Rated current(A)	Applicable motor (kW)	Brake unit	Applicable resistance (Ω/kW)
SD500-004D-		10	4		50/1.0
SD500-5R5D-		13	5.5		50/1.0
SD500-7R5D-	17    7.5      25    11      32    15      38    18      45    22      60    30			45/1.5	
SD500-011D-		25	11	Built-in	35/2.0
SD500-015D-		32	15		30/3.0
SD500-018D-		38	18		30/3.0
SD500-022D-		45	22		25/4.0
SD500-030D-		60	30		18/6.0
SD500-037D-		75	37		18/7.0

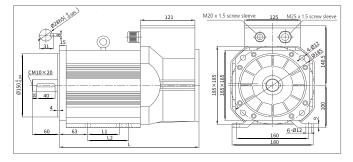
#### Spindle Servo Motor Name Rules

	$\frac{CM}{1} \frac{2S}{23} - \frac{1560}{4} \frac{D}{5} = \frac{1560}{6}$	00	4 - [	$\frac{U2}{8} \frac{28}{9} \frac{N}{10} \frac{3}{11} \frac{Y}{12}$
1	<b>Product series</b> CM: spindle motor series product		8	Encoder type U0:no encoder
2	<b>Base type</b> A:130; 0:165; 1:180; 2:200;			U1: increment 1024 encoder U2: increment 2500 encoder Z1: sine and cosine 1024 encoder
3	4:265; 6:360; Body length		9	<b>Motor axis diameter</b> 28:28mm; 38:38mm; 42:42mm; 55:55mm
	S、M、L、H、E、F Reference speed		10	Bond extension structure
4	15:1500rpm			K: motor axis with flat key N: motor axis without flat key
5	<b>Maximum speed</b> 60:6000rpm		(11)	Installation method 3: horizontal
6	<b>Reference voltage</b> D: 380V			5: vertical 7: horizontal/ vertical
7	Rated power      004:4kW;    5R5:5.5kW;      7R5:7.5kW;    011:11kW ;		(12)	<b>Temperature sensor</b> Empty: no temperature sensor Y: KTY; C:PTC
	015:15kW; 018:18.5kW; 22:22kw; 030:30kW; 037:37kW		(13)	<b>Heat dissipation</b> Empty: fan cooling (three-phase 415V fan) F2: fan cooling (single-phase 220V fan)

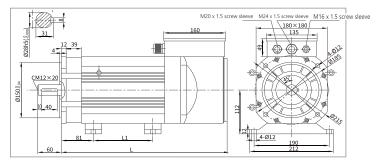
#### Spindle Servo Motor Specifications and Installation Dimensions

	Rated power (kW)	Speed r/min	Voltage V	Current A	Torque Nm	Inertia		1	L1	L2	D	F	G
Model	Continuous rating	Reference speed/ Max. mechanical speed	Reference voltage	Continuous rating	Continuous rating	kgm2	Frame No.		(mm)			' (mm)	-
CM0M-1560D2R2-	2.2	1500/6000	380	5.1	14	0.0077		335	95	112	28	-	-
CM0L-1560D004-	4	1500/6000	380	8.8	25.5	0.0116	165	385	140	159	28	-	-
CM0H-1560D5R5-	5.5	1500/6000	380	12.2	35	0.0162	1	445	200	219	28	-	-
CM1S-1560D2R2-	2.2	1500/6000	380	5	14	0.0071		334	65	-	28	-	-
CM1M-1560D004-	4	1500/6000	380	7.7	25.5	0.0101	180	369	100	-	28	-	-
CM1L-1560D5R5-	5.5	1500/6000	380	11.9	35	0.0151		419	150	-	28	-	-
CM2S-1560D004-	4	1500/6000	380	8.2	25.5	0.0128		375	109	-	38	-	-
CM2M-1560D5R5-	5.5	1500/6000	380	11.7	35	0.0169		405	139	-	38	-	-
CM2L-1560D7R5-	7.5	1500/6000	380	15.4	48	0.0236	200	455	189	-	38	-	-
CM2H-1560D011-	11	1500/6000	380	22.7	70	0.0303		505	239	-	38	-	-
CM4S-1560D011-	11	1500/6000	380	21.6	70	0.0605		482	133	-	42	12	45
CM4M-1560D015-	15	1500/6000	380	29.1	96	0.0791		510	173	-	42	12	45
CM4L-1560D018-	18.5	1500/6000	380	35.7	118	0.0954	265	545	208	-	55	16	59
CM4H-1560D022-	22	1500/6000	380	42	140	0.1117		580	243	-	55	16	59
CM4F-1560D030-	30	1500/6000	380	56.5	191	0.1676	]	700	363	174	55	16	59

## CM0M,0L,0H Series Specifications and Installation Dimensions



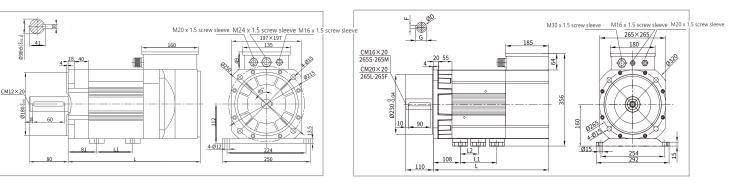
## CM1S,1M,1L Series Specifications and Installation Dimensions



CM4S,4M,4L,4H,4F Series Specifications and

Installation Dimensions

## CM2S,2M,2L,2H Series Specifications and Installation Dimensions



#### **Standard Pulse Wiring Diagram**

