

stable performance  
easy operation

**SRC**



## **DS2 series servo drive**

CE













# Specifications of servo motor

Voltage level		220V				
Motor type MS-	60ST-		80ST-	90ST-	110ST-	
	M00630	M01330	M02430	M02430	M04030	M05030
	□□-20P2	□□-20P4		□□-20P7	□□-21P2	□□-21P5
Motor code	1003	0004	0011	0021	0031	0032
Rated power (KW)	0.2	0.4	0.75	0.75	1.2	1.5
Rated current (A)	1.8	2.5	3.0	3.0	5.0	6.0
Rated speed (rpm)	3000	3000	3000	3000	3000	3000
Max speed (rpm)	4000	4000	4000	4000	3500	3500
Rated torque (N.m)	0.637	1.27	2.39	2.4	4	5
Peak torque (N.m)	1.91	3.8	7.1	7.1	12	15
Back EMF constant (V/krpm)	26	28	48	51	54	62
Torque coefficient (N · m/A)	0.37	0.5	0.8	0.8	0.8	0.83
Rotor inertia (Kg · m2)	$0.18 \times 10^{-4}$	$0.438 \times 10^{-4}$	$0.24 \times 10^{-3}$	$0.24 \times 10^{-3}$	$0.54 \times 10^{-3}$	$0.63 \times 10^{-3}$
Winding resistor (Ω)	35	3.49	2.88	3.2	1.09	1.03
Winding inductance (mH)	8.32	8.47	6.4	7.0	3.3	3.43
Electrical time constant (ms)	2.38	2.4	2.22	2.2	3.0	3.33
Weight (Kg)	1.11	1.78	2.86	3.4	5.5	6.1
Encoder ppr (PPR)	2500					
Pole pairs	4					
Motor insulation level	Class B(130°C)					
Protection level	IP64			IP65		
Using ambient	Ambient temperature	-20°C~+50°C				
	Ambient humidity	Related humidity <90% (no condensation)				

Voltage level		220V					380V		
Motor type MS-	130ST-				180ST-	180ST-			
	M06025	M10015	M07725	M15015	M19015	M21520	M27015	M35015	
	□□-21P5	□□-21P5	□□-22P0	□□-22P3	□□-23P0	□□-44P5	□□-44P3	□□-45P5	
	0042	0044	0043	0046	0052	0150	0151	0152	
	1.5	1.5	2.0	2.3	3.0	4.5	4.3	5.5	
	6.0	6.0	7.5	9.5	12.0	9.5	10	12.0	
	2500	1500	2500	1500	1500	2000	1500	1500	
	3000	2000	3000	2000	2000	3000	2000	2000	
	6	10	7.7	15	19	21.5	27	35	
	18	25	22	30	47	53	67	70	
	65	103	68	114	97	140	172	113	
	1.0	1.67	1.03	1.58	1.58	2.26	2.7	1.84	
	$1.26 \times 10^{-3}$	$1.94 \times 10^{-3}$	$1.53 \times 10^{-3}$	$2.77 \times 10^{-3}$	$3.80 \times 10^{-3}$	$4.7 \times 10^{-3}$	$6.1 \times 10^{-3}$	$8.6 \times 10^{-3}$	
	1.21	1.29	1.01	1.1	0.4	0.71	0.796	0.21	
	3.87	5.07	2.94	4.45	2.42	4	4.83	1.57	
	3.26	3.93	3.80	4.05	6	5.6	6	7.47	
	8.9	11.5	10	14.4	20.5	22.2	25.5	30.5	
	2500								
	4								
	Class B(130°C)								
	IP65								
Using ambient	-20°C~+50°C								
	Related humidity <90% (no condensation)								

## Match table of motor and drive

Motor type	Motor code	Matched drive	Voltage level
MS-60ST-M00630-20P2	1003	DS2-20P2-AS	single-phase/3-phase 220V
MS-60ST-M01330-20P4	0004	DS2-20P4	single-phase 220V
		DS2-20P4-AS	
MS-80ST-M02430-20P7	0011	DS2-20P7	
		DS2-20P7-AS	
MS-90ST-M02430-20P7	0021	DS2-20P7	
		DS2-20P7-AS	
MS-110ST-M04030-21P2	0031	DS2-21P5	
		DS2-21P5-A	
		DS2-21P5-B	
MS-110ST-M05030-21P5	0032	DS2-21P5	
		DS2-21P5-A	
		DS2-21P5-B	
MS-130ST-M06025-21P5	0042	DS2-21P5	
		DS2-21P5-A	
		DS2-21P5-B	
MS-130ST-M10015-21P5	0044	DS2-21P5	
		DS2-21P5-A	
		DS2-21P5-B	
MS-130ST-M07725-22P0	0043	DS2-22P3-A	3-phase 220V
MS-130ST-M15015-22P3	0046	DS2-22P3-A	3-phase 220V
MS-180ST-M19015-23P0	0052	DS2-23P0-A	3-phase 220V
MS-180ST-M21520-44P5	0150	DS2-45P5-A	3-phase 380V
MS-180ST-M27015-44P3	0151		3-phase 380V
MS-180ST-M35015-45P5	0152		3-phase 380V