

Specifications of Servo Systems

Flow	Pump outlet volume	cc/r	25	32	40	50	63	80	100	125	160
	Standard flow	L/min	53	67	84	105	132	160	200	250	342
	Max. flow	L/min	63	75	96	120	150	200	250	310	400
	Linear	%	≤1%F.S								
	Magnetic-lag	%	≤1%F.S								
Pressure	Max. pressure	Mpa	14 16 18	14 16 18	14 16 18	14 16 18	14 16 18	14 16 18	14 16 18	14 16 18	14 16 18
	Min. pressure	Mpa	0.1								
	Linear	%	≤1%F.S								
	Magnetic-lag	%	≤1%F.S								
Motor	Rated torque	N.m	48 48 48	70 70 70	70 70 96	96 96 118	118 118 140	140 140 169	169 191 208	208 236 264	264 286 315
	Insulation level		H								
	Protection level		IP65								
	Cooling method		Forced-air cooling								
	Environmental temperature		-10°C ~ +40°C (Derated if 40°C to 50°C)								
	Environmental humidity		20-90%RH (Non-condensing)								
	Weight of moter and pump	Kg	63 63 63	70 70 70	75 75 82	105 105 116	116 116 125	125 125 243	243 248 253	253 259 265	275 290 302
Drive	Rated power	kW	11 11 11	11 11 11	15 15 22	22 22 22	22 22 30	30 30 37	37 45 45	45 45 55	55 55 65
	Input voltage range	Vac	3PH 380~440VAC 50/60Hz								
	Control method		SVPWM Control								
	Brake unit		Built-in as standard								
	Feedback type		Speed detection-Resolver, pressure detecion-pressure sensor								
	Pressure command input		0~10V with software correction								
	Pressure feedback output		0~10V								
	Flow command order input		0~10V with software correction								
	Multifunctional input signal		6 programmable input and 1 enable, DC24V 8mA								
	Multifunctional output signal		4 programmable output DC24V 30mA								
	Protect functions		Over voltage, under-voltage, short circuit, over current, overload, overheat in motor and drive, stall, position out of tolerane encoder/resovler error, etc.								
	Communication functions		CAN communication through CANopen protocol; RS485 communication through MODBUS protocol; Industrial ethernet communication through EtherCAT								
	Cooling method		Intelligent air cooling								
	Environmental temperature		-10°C ~ +40°C (Derated if 40°C to 50°C)								
	Environmental humidity		5%~95%RH , without condensing								
	Weight	Kg	11	11	11	11 22 22	22	22	35	30	30 45 45
	Oil	Actuating medium		HL-HLP DIN51 524 Part1/2 R68 R46							
Operation temperature		°C	-20 to 100								
Tackiness			@40°C	67.83							
		@100°C	8.62								

Configuration Examples

Model	System flow (L/min)	System pressure (Mpa)	Matching Machine	Rated torque of motor(N.m)	Pump volume (cc/r)	Servo motors	Servo drives
SM-0060M0045H-111	53	16	60T	48	25	SM-190H75C15C-Rn21F	SM22-75CC-0RC
SM-0090M0067Q-121	67	16	90T	70	31.5	SM-190H11D15C-Rn21F	SM22-11DC-0RC
SM-0120M0084Q-121	84	16	120T	70	40	SM-200H13D17C-Rn21F	SM22-15DC-0RC
SM-0160M0105Q-122	105	16	160T	118	50	SM-200H17D17C-Rn21F	SM22-22DC-0RC
SM-0200M0132Q-121	132	16	200T	118	63	SM-200H21D17C-Rn21F	SM22-30DC-0RC
SM-0260M0168Q-111	160	16	260T	140	80	SM-260H25D17C-Rn21F	SM22-37DC-0RC
SM-0300M0210Q-121	200	16	300T	210	100	SM-260H34D17C-Rn21F	SM22-45DC-0RC
SM-0360M0231Q-111	250	16	360T	265	125	SM-260H42D17C-Rn21F	SM22-45DC-0RC