

MV810J Electro-hydraulic Servo Drive

Power Solutions

- Telecom Power
- Server Power
- Electric Power
- Medical Power
- Display Power
- LED Power
- Laser Power
- OA Power
- Flat Panel Power
- Bi-directional Inverters for Portable Power
- Solar & BESS & EV Charging Solution

Industry Automation

- Servo System
- Control System
- Elevator Controller
- Linear Motors
- IOT Solution
- Encoder
- Variable Frequency Drive
- Internal Gear Pump

New Energy Solutions

- Multiplexed EV Charging System(OBC & DC-DC)
- Power Electronic Unit(2-in-1, 3-in-1)
- E-Compressor
- TV EDU
- Motor Control Unit
- Construction Machinery Controller
- Intelligent Active Hydraulic Suspension (i-AHS)
- Railway A/C Controller
- Railway VFD
- Light Electric Vehicle Controller
- Thermal Mgmt. System

Home Appliance Control Solutions

- Residential A/C Controller
- Commercial A/C Controller
- Heat Pump Controller
- Vehicle A/C Controller
- Solar A/C Controller
- Mini Compressor Controller
- Refrigerator Controller
- Washer/Dryer Controller
- Residential Microwave
- Industrial Microwave
- Smart Bidet
- RF Thawing System

Precision Connection

- FFC
- FPC
- Coaxial Cable
- CCS
- Litz Wire
- Peek Wire



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Servo Drive Features

High reliability and stability

- Wide power range, adapted to different grid environments
- EMC design, ensuring reliable operation in environments with electromagnetic interference
- Full series servo design, tailored for high dynamic and high-intensity applications in injection molding
- Built-in DCL, optional for 30 to 110 kW and standard for 132 to 160 kW
- Built-in braking unit for drives of 110 kW and below, facilitating installation and improving reliability
- PCB conformal coating, protecting the drive against moisture, oil mist, dust, particles and other harsh conditions
- Motor temperature detection and protection (both PTC and KTY84 supported), and pressure sensor power supply fault protection, ensuring safe and stable operation of the injection molding system

Multi-pump convergent flow and distributed/convergent flow control

Multi-pump convergent flow

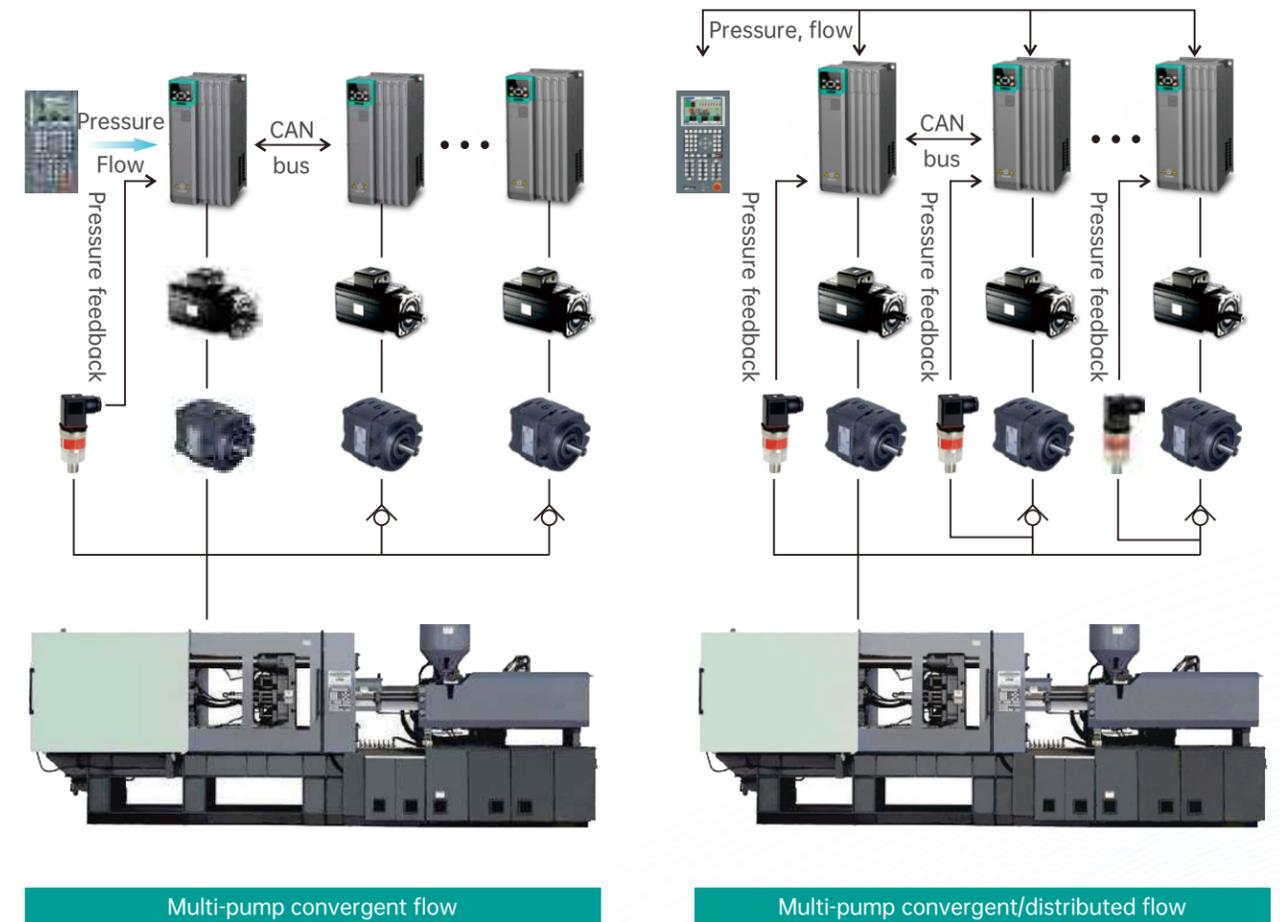
- Synchronous running for the same large unit
- Only required to set the master and the slave, communicated through high-speed CAN bus
- Simplified commissioning, oil pressure response entirely controlled by the master's PI, with the slave following the master's actions
- During pressure holding, the master can automatically disengage the slave for more energy-efficient operation
- Special handling for unstable motor speed during the plasticizing process when processing high-hardness materials

Multi-pump distributed/convergent flow

In a multi-pump hydraulic injection molding machine system, an integrated control scheme combining convergent and distributed flow of multiple pumps can be employed. The injection molding system switches modes according to the actual process requirements, offering advantages such as greater energy efficiency and higher productivity compared to a pure multi-pump convergent flow system.

Dual-displacement pump control

- Appropriate displacement switching for greater energy efficiency
- Fast response, rapid cycling, and higher precision
- High-sensitivity overflow for enhanced reliability
- Power-saving configuration for greater environmental friendliness

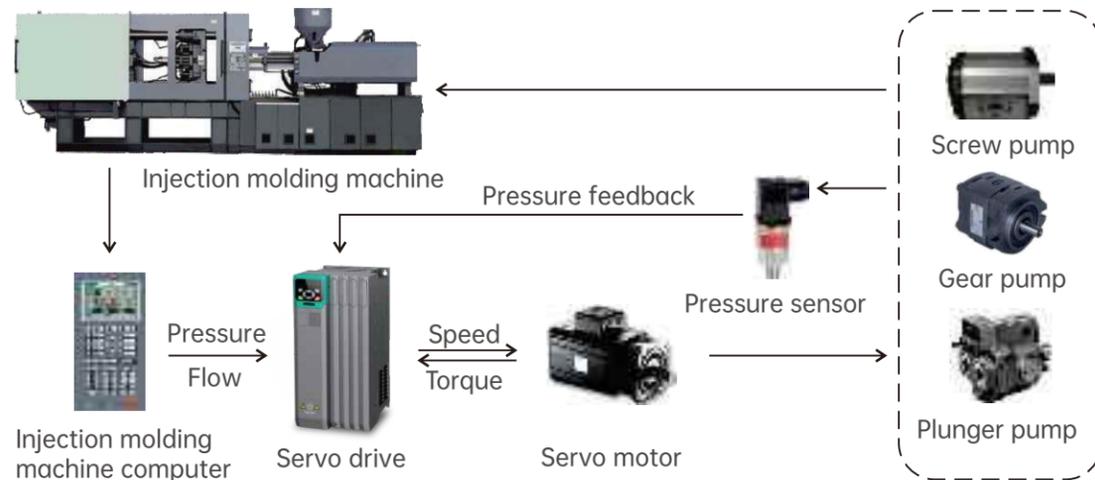


Simplified parameter setting

- Frequently used default parameters, meeting over 90% of on-site operational requirements
- Multiple motor auto-tuning options available
- Rich parameter display on the operating panel
- Multiple sets of PIs, automatically switched to control system response and overshoot
- Convenient PC TOOLING debugging software

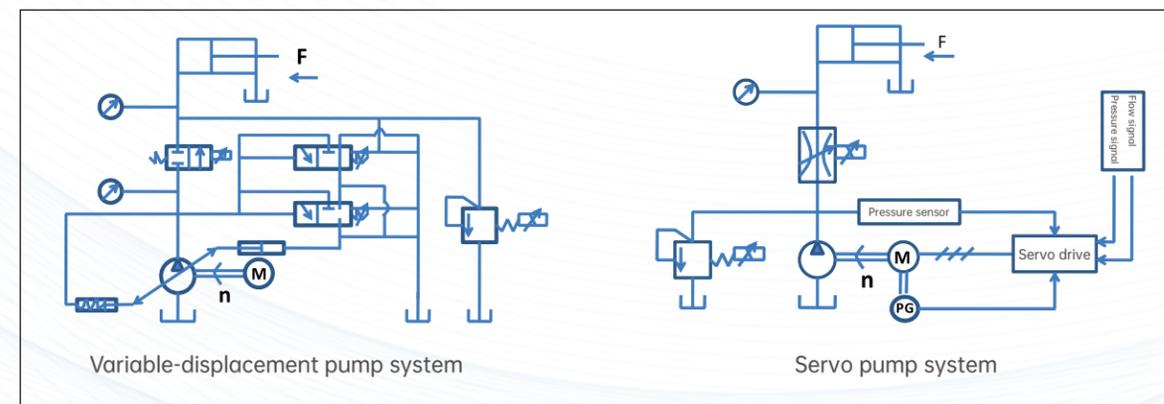
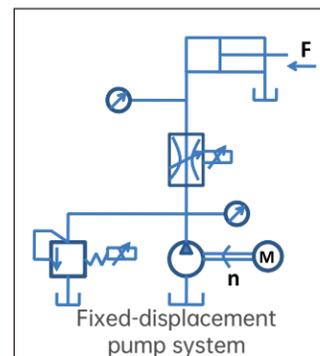
Injection Molding Machine Hydraulic Servo System Solution

Servo pump system components



Comparison of pump systems

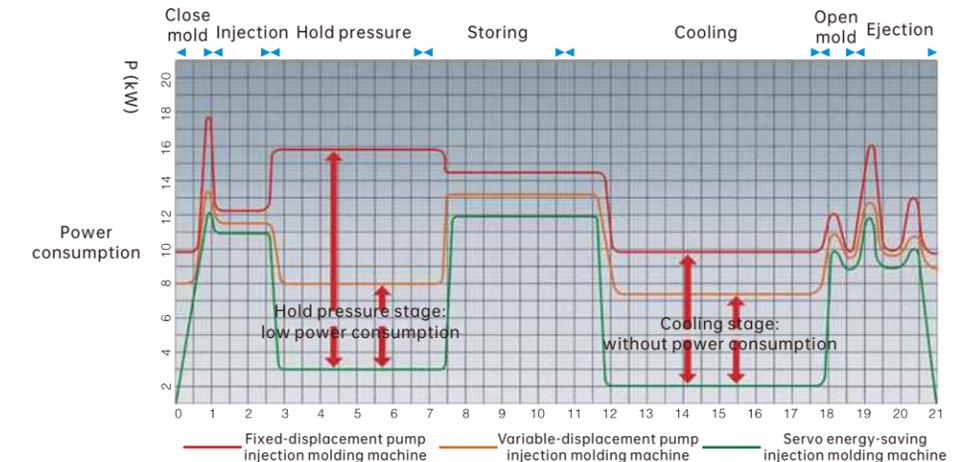
Traditional fixed-displacement pump injection molding machines suffer from significant energy waste. According to statistics, their maximum operational efficiency does not exceed 40%, making energy-saving modifications for these machines imperative. Variable-displacement pump injection molding machines, from the perspective of hydraulic components, explore energy-saving potential in the oil circuit, thereby improving the efficiency of the hydraulic system. However, limited by their control methods, these systems cannot eliminate throttling and overflow losses. Servo-driven injection molding machines, from the standpoint of electrical control, revamp the traditional oil circuit through speed regulation methods. Leveraging the precision, speed, and reliability of modern control system, they can eliminate throttling losses at the source and reduce overflow losses.



Injection Molding Machine Hydraulic Servo System Advantages

Energy-saving

Servo drives utilize modern control technologies to fully leverage the speed regulation capabilities of servo motors. Combined with high-speed, high-response PID algorithms, they supply power on demand. Compared to traditional fixed-displacement or variable-displacement pump systems, the maximum energy-saving rate can exceed 80%.



High accuracy

High repeatability of position

The rapid response of the servo drive to pressure and flow ensures the precision of mold opening and closing in the injection molding machine. The end position error of injection can be controlled within 0.1 mm.

High accuracy of pressure control

The servo drive employs a high-speed DSP, combined with optimized high-response, high-speed PID algorithms, ensuring system pressure stability. Pressure fluctuations can be controlled within ± 0.5 bar.

High efficiency

High motor speed

Compared to traditional asynchronous motors, the higher speed of servo motors enhances the output of the oil pump, improving the overall efficiency of the injection molding machine.

Fast response

The fastest response speed can reach 20 ms, effectively increasing the pressure build-up speed of the hydraulic system.

Low noise

Relying on the optimized PID control algorithms of the servo drive and high-performance permanent magnet servo motors, the working noise of the injection molding machine is significantly reduced, achieving quiet operation and effectively improving the working environment.

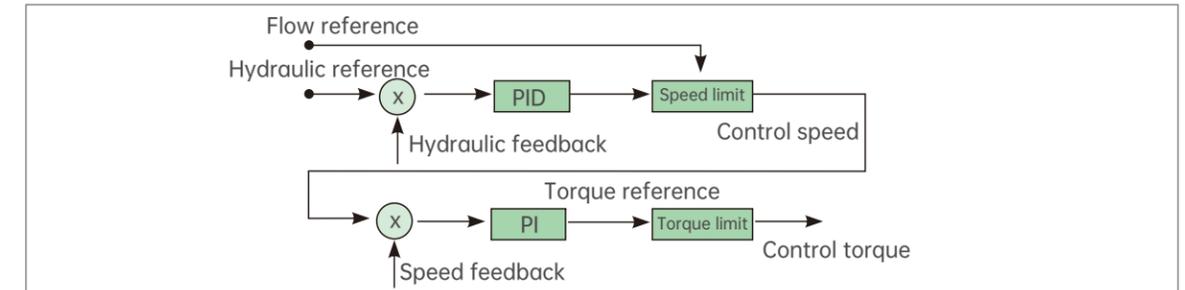
MV810J Advantages

- | The pressure sensor AI channel is a 12-bit AD, offering higher precision
- | Soft decoding of motor resolver PG feedback provides stronger anti-interference capability
- | Dual CAN channels are standard for 90 kW and above, while external CAN is optional for 75 kW and below, achieving more flexible system control
- | The host controller USB debugging interface enables online hydraulic pressure monitoring
- | Optimized hydraulic pressure loop and motor control algorithms
- | Voltage stabilization accuracy can be controlled within ± 0.5 bar
- | A brand-new core hardware platform with a compact structure



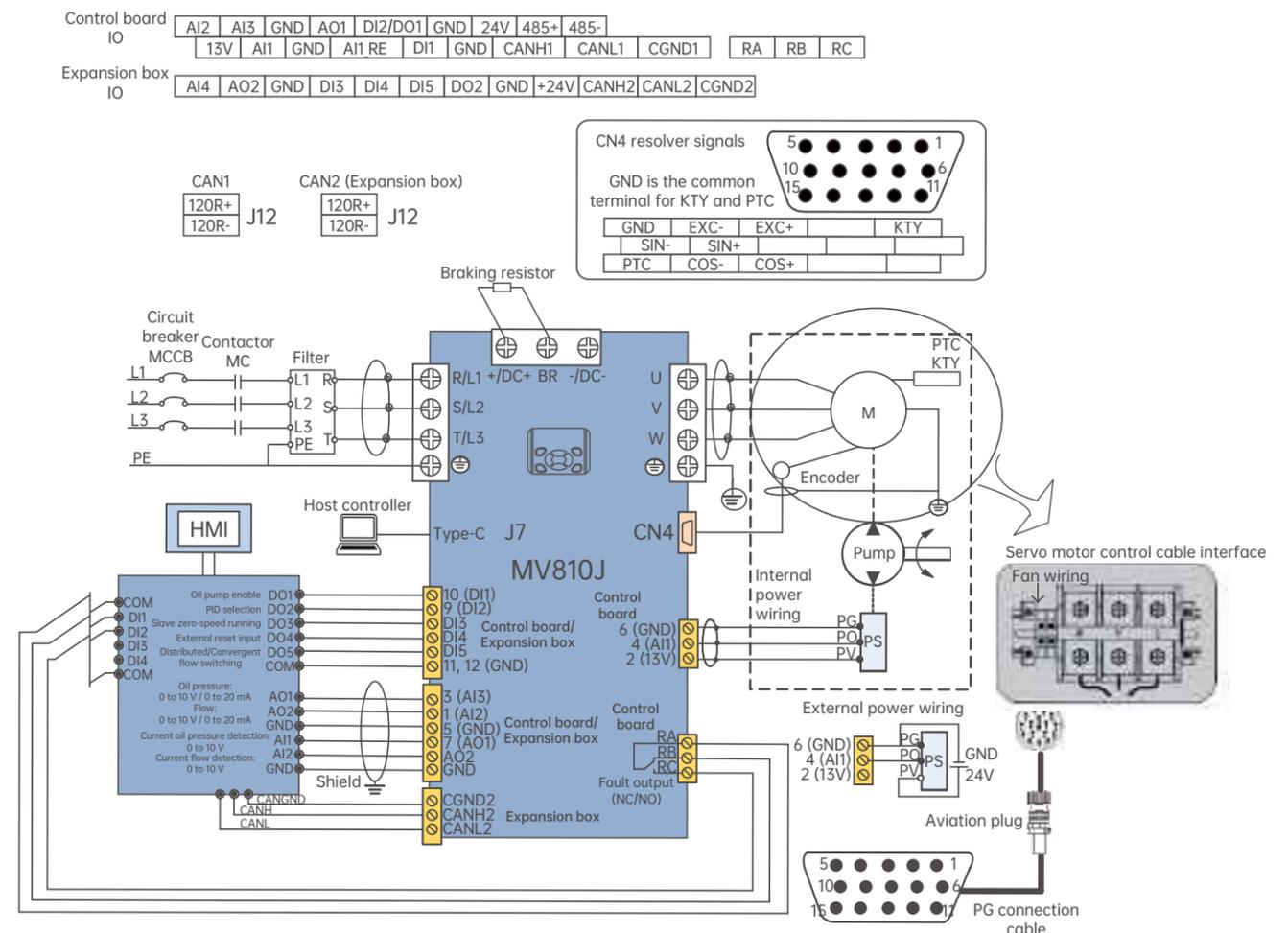
MV810J Single System Control

Pressure and flow control algorithm

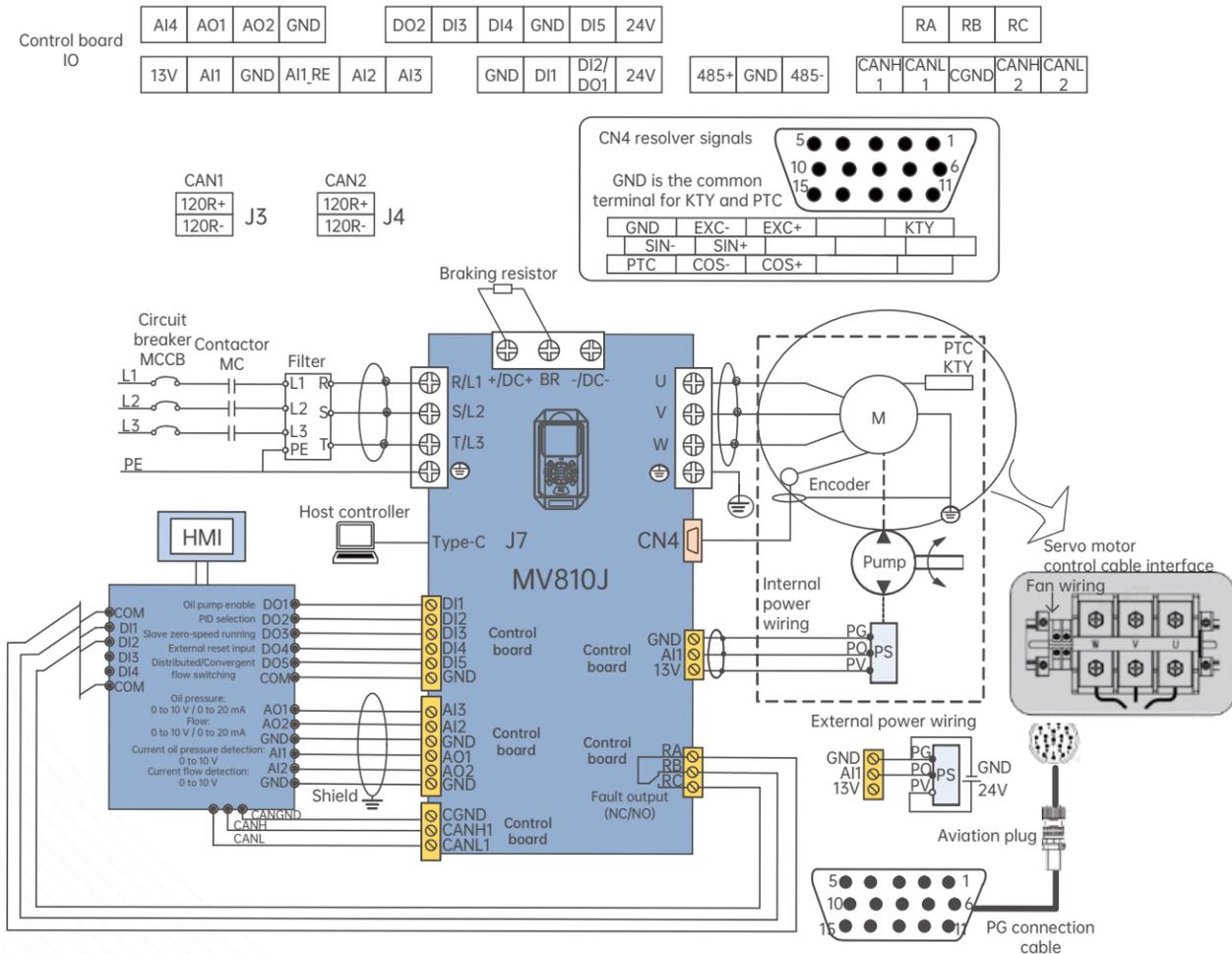


Pressure and flow control algorithm

Main circuit and control circuit terminal wiring (Small control board + Expansion box)

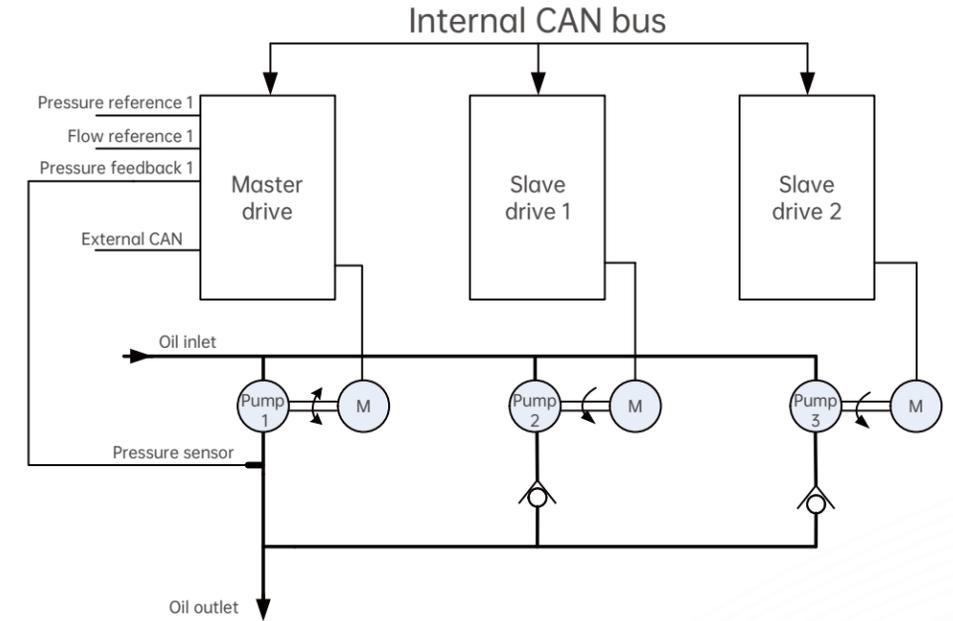


Main circuit and control circuit terminal wiring (Large control board)

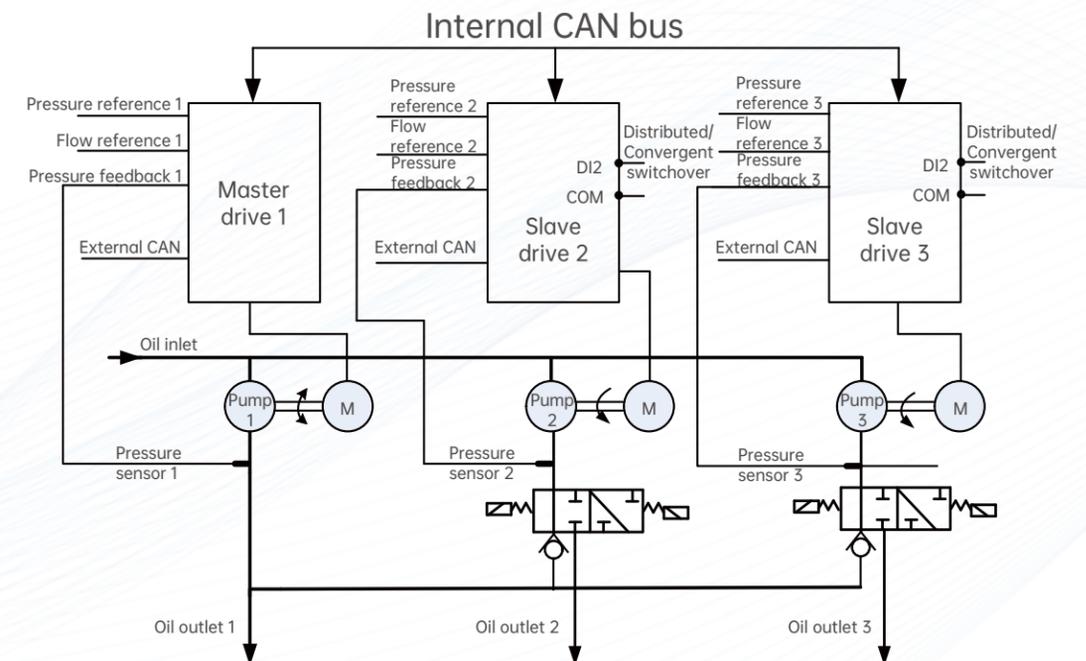


MV810J Multi-System Control

Single-master multi-slave compound

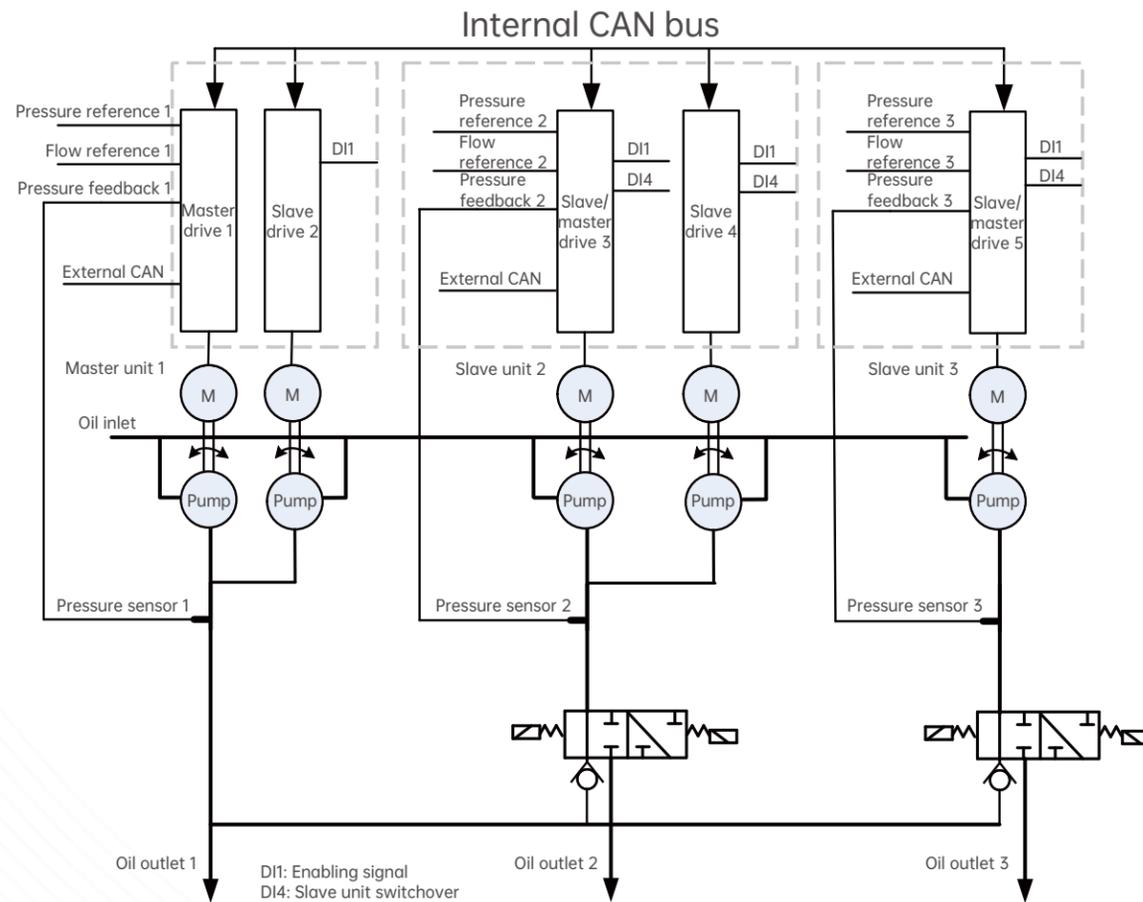


Single-master multi-slave distributed/convergent flow



Field Test Waveforms

Multi-master multi-slave convergent flow



Building pressure



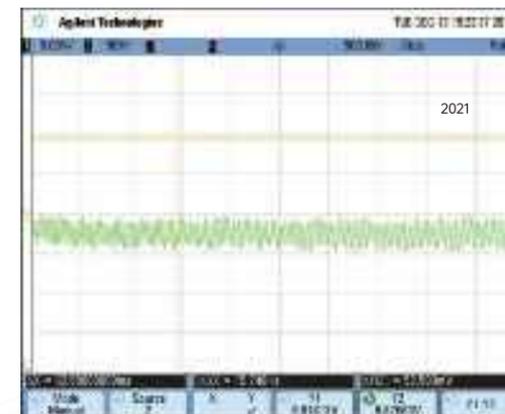
Building pressure time of 175 bar is 64.5 ms.

Unloading pressure



Unloading pressure time of 175 bar is less than 100 ms.

Holding pressure



Pressure sensor range 250 bar, 0 to 10 V output.
During pressure holding at 175 bar,
the pressure fluctuation is ± 0.65 bar.

Full cycle



Fast response to cyclical building pressure,
holding pressure, unloading pressure commands.

Servo Drive Quick Selection

Calculate the torque required by the pump to select the motor

To generate certain pressure p (bar) for a pump with a rated displacement q (ml/rev), according to the hydraulic theory, the torque required to drive the pump is calculated as follows:

$$T_{\text{pump}} = 0.0159 * p * q \text{ (N}\cdot\text{m)}$$

Considering that the motor has a certain overload capacity, and the injection molding machine is not always operating at maximum torque, the rated torque of the pump motor is calculated as follows:

$$T_{\text{motor}} = T_{\text{pump}} / 1.4 \sim 1.6$$

Refer to the relevant motor parameter table and first select the motor torque. Based on data provided by different motor manufacturers, there are typically three speed ranges for a given motor torque: 1500 rpm, 1700 rpm, and 2000 rpm. Select the appropriate speed based on the system's configured pump to finalize the motor.

Calculate the drive's rated current to select the drive

Once the motor is determined, calculate the maximum current required by the drive based on the motor's k_t value:

$$I_{\text{drive max}} = T_{\text{pump}} / k_t$$

Calculate the drive's rated current based on 1.5 times overload for 1 minute:

$$I_{\text{rated}} = 1.2 * I_{\text{drive max}} / 1.5$$

Note: Due to variations in the accuracy of parameters provided by different motor and oil pump manufacturers, a safety factor of 1.2 should be applied during drive selection to enhance system safety and stability.

Based on the drive's rated current, the drive model can be preliminarily selected.

Servo Drive Naming Rule and Specifications

MV810 J 1 - 4 T 30 A

1
2
3
4
5
6
7

<p>1 Product series</p> <p>MV810: MV810 series platform</p>	<p>3 Product iteration</p> <p>1: First-generation</p>	<p>6 Power rating</p> <p>(15 to 160 kW)</p> <p>30: 30 kW</p>
<p>2 Industry</p> <p>J: Hydraulic servo G: General S: Servo positioning T: Tension control L: Lifting</p>	<p>4 Input voltage class</p> <p>2: 220 V 4: 380 V</p>	<p>7 Expansion box</p> <p>A: Without box B: With box Null: Already integrated</p>
	<p>5 Input voltage phase</p> <p>T: Three-phase</p>	

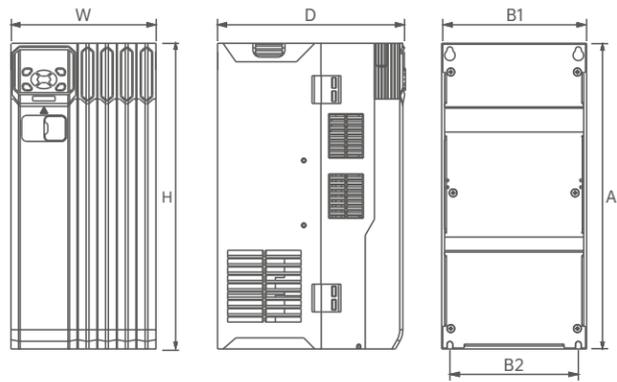
Note:

The small control board and expansion box are suitable for 4T15 to 75. The expansion box is an option (expansion box will be included when you select B for the model name). The large control board is suitable for 4T90 to 160, and the large control board already integrates all terminal functions of the expansion box.

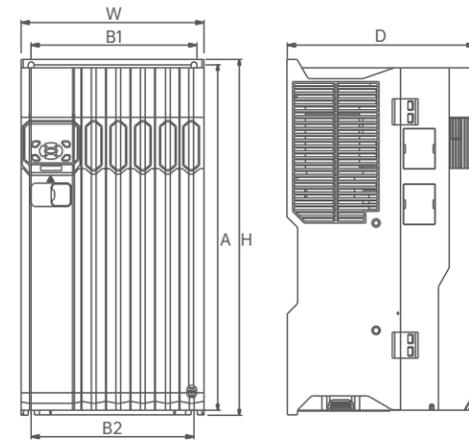
Drive model	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Recommended braking resistor (Ω)	Braking torque (%)	Braking unit	Note
Three-phase 380 V to 480 V, $\pm 10\%$							
MV810J1-4T15*	21.0	35.0	32.0	38	120	Built-in	Plastic
MV810J1-4T18.5*	24.0	49.0	37.0	33	120	Built-in	Plastic
MV810J1-4T22*	30.0	58.0	45.0	27	120	Built-in	Plastic
MV810J1-4T30*	39.0	62.0	60.0	20	120	Built-in	Plastic
MV810J1-4T37*	49.0	76.0	75.0	16	120	Built-in	Plastic
MV810J1-4T45*	59.0	92.0	90.0	13	120	Built-in	Plastic
MV810J1-4T55*	72.0	113.0	110.0	10.5	120	Built-in	Plastic
MV810J1-4T75*	100.0	157.0	152.0	7.7	120	Built-in	Plastic
MV810J1-4T90	115.0	180.0	176.0	5.1	120	Built-in	Sheet metal
MV810J1-4T110	138.0	214.0	210.0	4.0	120	Built-in	Sheet metal
MV810J1-4T132	166.0	256.0	253.0	3.4	130	MDBU-4-132	Sheet metal
MV810J1-4T160	200.0	307.0	304.0	1.4	140	MDBU-4-200	Sheet metal

Servo Drive Dimensions

Enclosure E

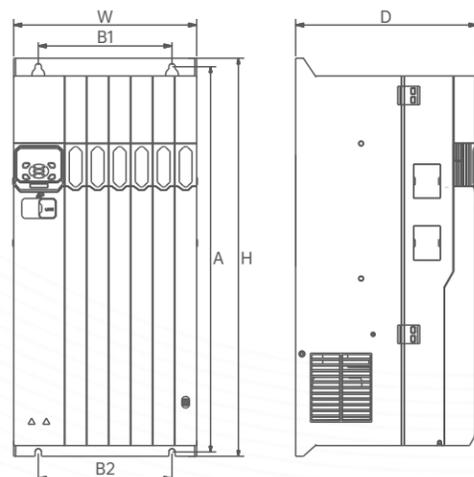


Enclosure F



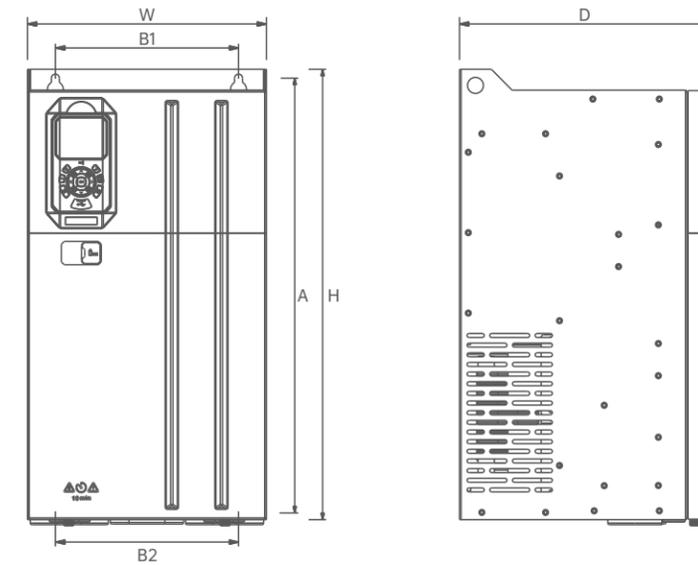
Enclosure	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
E	MV810J1-4T15* MV810J1-4T18.5* MV810J1-4T22*	318	140	140	330	158	204.8	6
F	MV810J1-4T30* MV810J1-4T37*	412	196	196	424	220	229	7

Enclosure G



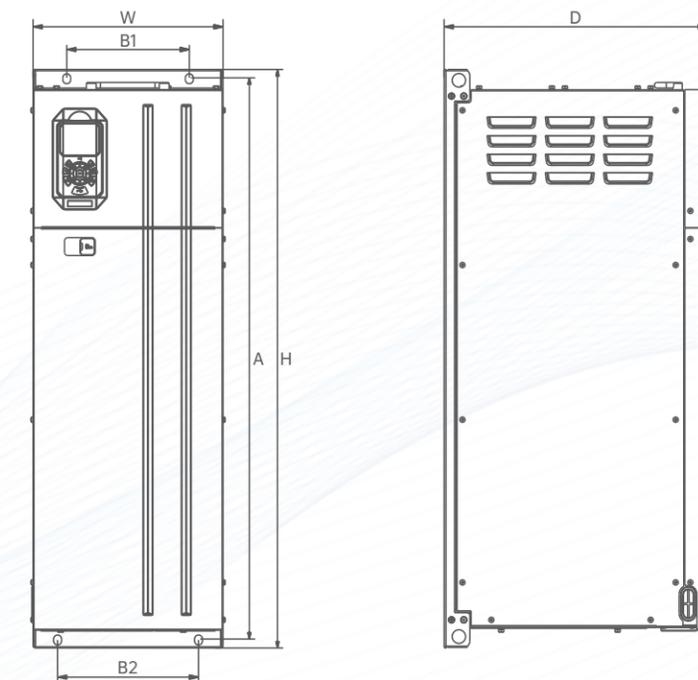
Enclosure	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
G	MV810J1-4T45* MV810J1-4T55* MV810J1-4T75*	542	190	190	560	260	255	9

Enclosure H



Enclosure	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
H	MV810J1-4T90 MV810J1-4T110	539	230	230	560	300	300	10

Enclosure I



Enclosure	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
I	MV810J1-4T132 MV810J1-4T160	875	230	230	900	310	429	10

Servo Motor Advantages

High Precision & Fast Response

High Efficiency & Energy Saving

- The embedded permanent magnet structure enhances weak magnetic overspeed and anti-demagnetization capabilities, meeting various operational requirements.
- An industry-leading design platform provides motors with compact size, lightweight, low noise, strong overload capacity, and excellent electromagnetic performance.
- A mature production and manufacturing system, with robust processes and quality standards, guarantees stable and reliable product quality.
- Permanent magnets sourced from leading domestic manufacturers offer high performance, low loss, high efficiency, low temperature rise, small current and high torque.
- Built-in PTC and KTY temperature sensors provide more protection.
- Non-standard customization is available.
- A 9-core, 6-meter-long encoder cable is included as an accessory.



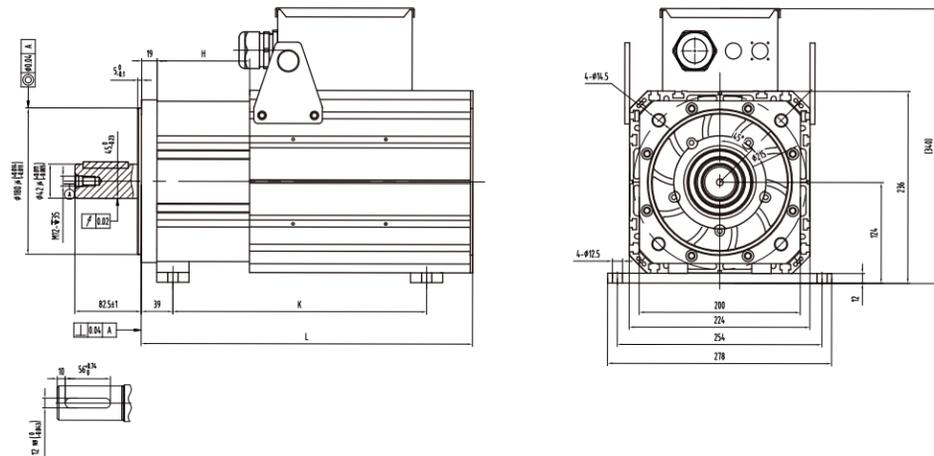
Motor Naming Rule

SPM - T I R 20 15D - F J

1 2 3 4 5 6 7 8

<p>1 Product series</p> <p>SPM: SPM series servo motor</p>	<p>4 Encoder type</p> <p>A: 17-bit multi-turn optical encoder B: 23-bit multi-turn optical encoder L: 5000-line full-line incremental encoder M: 2500-line full-line incremental encoder N: No encoder R: Rotary encoder</p>	<p>6 Rated motor power (number & letter)</p> <p>A: Number × 1 B: Number × 10 C: Number × 100 D: Number × 1000 E: Number × 10000</p>
<p>2 Rated voltage</p> <p>S: 220 V T: 380 V</p>	<p>3 Rated speed</p> <p>D: 1500 rpm E: 2000 rpm I: 1700 rpm</p>	<p>5 Frame dimensions</p> <p>20: 200*200 mm 26: 264*264 mm 36: 365*365 mm</p>
		<p>7 Cooling method</p> <p>F: Air cooling Y: Liquid cooling A: Self cooling</p>
		<p>8 Design version</p> <p>J: Version J</p>

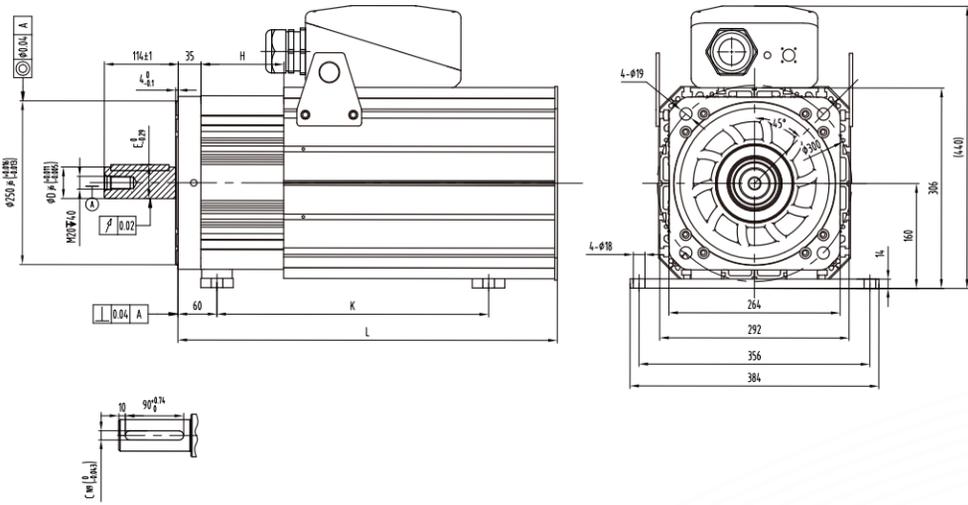
Servo Motor Dimensions (200*200 frame)



Standard accessory: Type A round head plain parallel key 12×8×56
Reference: GB/T 1096

Motor model	SPM-TDR2086C	SPM-TDR2013D	SPM-TDR2017D	SPM-TDR2020D	SPM-TDR2025D	SPM-TDR2028D	SPM-TDR2032D
	SPM-TIR2010D	SPM-TIR2015D	SPM-TIR2019D	SPM-TIR2023D	SPM-TIR2028D	SPM-TIR2031D	SPM-TIR2037D
	SPM-TER2011D	SPM-TER2017D	SPM-TER2022D	SPM-TER2027D	SPM-TER2033D	SPM-TER2036D	SPM-TER2041D
L (mm)	342	377	411	446	482	519	553
K (mm)	265	285	310	350	395	430	470
Weight (kg)	37	45	52	59	66	73	80

Servo Motor Dimensions (264*264 frame)



Standard accessory: Type A round head plain parallel key 14×9×90
Reference: GB/T 1096

Motor model	SPM-TDR2635D	SPM-TDR2639D	SPM-TDR2647D	SPM-TDR2659D	SPM-TDR2669D	SPM-TDR2679D	SPM-TDR2688D
	SPM-TIR2640D	SPM-TIR2645D	SPM-TIR2653D	SPM-TIR2666D	SPM-TIR2677D	SPM-TIR2689D	SPM-TIR2699D
	SPM-TER2646D	SPM-TER2652D	SPM-TER2662D	SPM-TER2677D	SPM-TER2690D	SPM-TER2610E	SPM-TER2612E
L (mm)	523.5	560	585	637	689	740	791
K (mm)	365.5	365.5	419	473	526	600	653
C (mm)	14 ⁰ _{-0.027}	18 ⁰ _{-0.027}	18 ⁰ _{-0.027}				
D (mm)	48 ^{+0.011} _{-0.005}	60 ^{+0.03} _{-0.011}	60 ^{+0.03} _{-0.011}				
Weight (kg)	122	135	141	158	175	195	217

Motor Parameters

1500 rpm

Motor model	Rated power (kW)	Rated current (A)	Rated torque (N·m)	Rated speed (rpm)	Rated frequency (Hz)	Back-EMF (V)	Kt Thermal state	Pole number 2P	Peak speed (rpm)	Peak torque (N·m)	Peak current (A)	Inertia (kg·cm ²)
SPM-TDR2009D-F	8.6	16.3	55	1500	100	316	3.37	8	2200	88	27.5	60
SPM-TDR2013D-F	13.2	24.6	84	1500	100	316	3.41	8	2200	145	45	75
SPM-TDR2017D-F	17	31.8	108	1500	100	316	3.4	8	2200	195	63	90
SPM-TDR2020D-F	20.4	39.2	130	1500	100	320	3.32	8	2200	248	83	105
SPM-TDR2025D-F	24.5	44.7	156	1500	100	316	3.49	8	2200	300	104	120
SPM-TDR2028D-F	28.3	52	180	1500	100	316	3.46	8	2200	360	120	137
SPM-TDR2032D-F	32.2	61.8	205	1500	100	331	3.32	8	2200	400	140	15
SPM-TDR2635D-F	35.4	66	225	1500	100	316	3.42	8	2200	355	152	296
SPM-TDR2639D-F	39.2	73.3	250	1500	100	320	3.41	8	2200	400	165	345
SPM-TDR2647D-F	47.2	89.5	300	1500	100	316	3.35	8	2200	500	180	368
SPM-TDR2659D-F	58.8	112	375	1500	100	320	3.34	8	2200	600	228	434
SPM-TDR2669D-F	69.1	129	440	1500	100	316	3.41	8	2200	675	230	500
SPM-TDR2679D-F	79	149	503	1500	100	316	3.39	8	2200	750	260	576
SPM-TDR2688D-F	87.9	170	560	1500	100	320	3.3	8	2200	830	292	640

Motor Parameters

1700 rpm

Motor model	Rated power (kW)	Rated current (A)	Rated torque (N·m)	Rated speed (rpm)	Rated frequency (Hz)	Back-EMF (V)	Kt Thermal state	Pole number 2P	Peak speed (rpm)	Peak torque (N·m)	Peak current (A)	Inertia (kg·cm ²)
SPM-TIR2010D-F	9.8	18.5	55	1700	113.3	307	2.97	8	2500	89	32.5	60
SPM-TIR2015D-F	15	28.3	84	1700	113.3	319	2.97	8	2500	147	54	75
SPM-TIR2019D-F	18.7	35.3	105	1700	113.3	306	2.97	8	2500	202	74	90
SPM-TIR2023D-F	23	44.8	129	1700	113.3	319	2.88	8	2500	247	89	105
SPM-TIR2028D-F	27.8	53.3	156	1700	113.3	319	2.93	8	2500	302	110	120
SPM-TIR2031D-F	31.3	61.5	176	1700	113.3	314	2.86	8	2500	375	138	137
SPM-TIR2037D-F	36.5	70	205	1700	113.3	306	2.93	8	2500	425	157	15
SPM-TIR2640D-F	39.7	75.8	223	1700	113.3	320	2.94	8	2500	440	162	296
SPM-TIR2645D-F	44.5	67.6	250	1700	113.3	324	2.98	8	2500	460	170	345
SPM-TIR2653D-F	52.7	99.3	296	1700	113.3	324	2.98	8	2500	510	180	368
SPM-TIR2666D-F	65.9	128	370	1700	113.3	320	2.9	8	2500	600	225	434
SPM-TIR2677D-F	77.4	149	435	1700	113.3	307	2.92	8	2500	670	255	500
SPM-TIR2689D-F	89	173	500	1700	113.3	328	2.9	8	2500	755	280	576
SPM-TIR2699D-F	98.6	206	554	1700	113.3	307	2.68	8	2500	830	340	640

Motor Parameters

2000 rpm

Motor model	Rated power (kW)	Rated current (A)	Rated torque (N·m)	Rated speed (rpm)	Rated frequency (Hz)	Back-EMF (V)	Kt Thermal state	Pole number 2P	Peak speed (rpm)	Peak torque (N·m)	Peak current (A)	Inertia (kg·cm ²)
SPM-TER2011D-F	11.3	21	54	2000	133.3	311	2.57	8	2600	88	36	60
SPM-TER2017D-F	17.4	31.6	82	2000	133.3	316	2.59	8	2600	145	62	75
SPM-TER2022D-F	21.8	38.3	104	2000	133.3	321	2.72	8	2600	194	80	90
SPM-TER2027D-F	26.8	51.3	128	2000	133.3	326	2.5	8	2600	248	110	105
SPM-TER2033D-F	32.5	60.9	155	2000	133.3	331	2.55	8	2600	310	140	120
SPM-TER2036D-F	36.4	66.8	174	2000	133.3	316	2.6	8	2600	355	154	137
SPM-TER2041D-F	40.8	74	195	2000	133.3	321	2.64	8	2600	400	185	15
SPM-TER2646D-F	46	86.7	220	2000	133.3	316	2.54	8	2600	440	200	296
SPM-TER2652D-F	51.5	92	245	2000	133.3	320	2.6	8	2600	460	210	345
SPM-TER2662D-F	61.6	109	294	2000	133.3	321	2.7	8	2600	510	222	368
SPM-TER2677D-F	77	146	368	2000	133.3	326	2.52	8	2600	595	273	434
SPM-TER2690D-F	90	170	430	2000	133.3	331	2.53	8	2600	670	308	500
SPM-TER2610E-F	104	187	498	2000	133.3	316	2.66	8	2600	755	330	576
SPM-TER2612E-F	115	206	550	2000	133.3	321	2.67	8	2600	810	345	640

Recommended Servo System Configuration

Pump displacement (cc)	System pressure (Mpa)	Max. speed (rpm)	Motor model	Drive model
40	14	2200	SPM-TIR2015D	MV810J1-4T15*
50	14	2200	SPM-TIR2019D	MV810J1-4T18.5*
63	14	2200	SPM-TIR2023D	MV810J1-4T22*
80	14	2200	SPM-TIR2028D	MV810J1-4T30*
100	14	2200	SPM-TIR2037D	MV810J1-4T37*
125	14	2200	SPM-TIR2645D	MV810J1-4T45*
160	14	2200	SPM-TIR2653D	MV810J1-4T55*

Pump displacement (cc)	System pressure (Mpa)	Max. speed (rpm)	Motor model	Drive model
32	17.5	2200	SPM-TIR2015D	MV810J1-4T15*
40	17.5	2200	SPM-TIR2019D	MV810J1-4T18.5*
50	17.5	2200	SPM-TIR2023D	MV810J1-4T22*
63	17.5	2200	SPM-TIR2028D	MV810J1-4T30*
80	17.5	2200	SPM-TIR2037D	MV810J1-4T37*
100	17.5	2200	SPM-TIR2645D	MV810J1-4T45*
125	17.5	2200	SPM-TIR2653D	MV810J1-4T55*
160	17.5	2200	SPM-TIR2666D	MV810J1-4T75*

Pump displacement (cc)	System pressure (Mpa)	Max. speed (rpm)	Motor model	Drive model
32	21	2200	SPM-TIR2019D	MV810J1-4T18.5*
40	21	2200	SPM-TIR2023D	MV810J1-4T22*
50	21	2200	SPM-TIR2028D	MV810J1-4T30*
63	21	2200	SPM-TIR2037D	MV810J1-4T37*
80	21	2200	SPM-TIR2645D	MV810J1-4T45*
100	21	2200	SPM-TIR2653D	MV810J1-4T55*
125	21	2200	SPM-TIR2666D	MV810J1-4T75*
160	21	2200	SPM-TIR2677D	MV810J1-4T90

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