

SystemOne CM



MotionOne CM

	MotionOne CM (basic)	MotionOne CM (advanced)
CPU	Intel Atom 1.3 GHz	Intel Dual Core i3 2.2 GHz
RAM memory	512 MB	4 GB
Operating system	Linux + CODESYS 3	
Fieldbus Master	1 x EtherCAT	2 x EtherCAT
RT Ethernet Slave	EtherCAT, PROFINET, Ethernet I/P	
Interfaces	EtherCAT, 3 x Ethernet, 3 x USB, DVI (Graphic + Touch)	
Fieldbus cycle time	≥ 1 ms	≥ 500 μs
Interpolation cycle time	≥ 1 ms 1 – 32 axes interpolated	≥ 125 μs (@CNC) 1 – 64 axes interpolated
Comparison computing power	1	2.5
Visualization	Ethernet and Onboard DVI	
Tool set	MotionCenter LX	
Remote I/O	RIO – I/O-System via EtherCAT	

ServoOne CM

ServoOne CM axis controller											
Max. output current [A] ⁽¹⁾	4.5	9	18	36	48(40) ⁽²⁾	72	100	112*	160*	260*	420*
Nominal current [A]	1.5	3	6	12	18(16) ⁽²⁾	24	32	45	80	130	210
Dimensions [mm]	Size 1: 55 x 310 x 241 Size 2: 110 x 310 x 241 Size 3: 165 x 390 x 251 Size 4: 275 x 390 x 251										
Single-axis controller	Size 1			Size 2			Size 3		Size 4		
Double-axis controller	Size 1		Size 2		Size 3			–			
Triple-axis controller	Size 1		Size 2		–						
Encoder interface	Resolver, SinCos, HIPERFACE, HIPERFACE DSL, EnDAT										
Field bus	EtherCAT, FSoE, EoE										
Default inputs	11 DI										
Safety inputs	4 DI										
Standard safety	STO (SIL3, PLe, Kat 4), SBC										
Optional safety	safe movement monitoring SSX, SOS, SLS, SLP, ...										
Cooling method	wall-mounted, cold plate, push-through, water										

1) overload for 500 ms

2) for two-axis controller

* preliminary values

ServoOne CM

Supply unit without regenerative feedback CMP					
Size	Size 1	Size 2	Size 3	Size 3	Size 4
Nominal power [kW]	11	22	45	75	100*
Max. power [kW]	22	44	90*	150*	200*
Dimensions [mm]	55 x 310 x 241	110 x 310 x 241	165 x 390 x 251		275 x 390 x 251
Supply voltage	3 x 230 – 480 V AC ± 10%				
Integrated brake chopper	x	x	x	x	x
Integrated brake resistor	Option	Option	–	–	–
Power supply 24 V DC, 20 A	Option	Option	–	–	–
Integrated power shut-down	x	x	x	x	x
Control of mains contactor	x	x	x	x	x
Precharging	with charging current limitation				
Cooling	wall-mounted, cold plate, push-through, water				

* preliminary values

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Supply unit with regenerative feedback CMA				
Supply nominal power [kW]	11*	22*	45*	75*
Supply max. power [kW]	22*	44*	90*	150*
Regeneration nominal power [kW]	11*	22*	45*	75*
Regeneration max. power [kW]	22*	44*	90*	150*
Supply voltage	3 x 230 – 480 V AC ± 10%			
Precharging	with passive supply unit or charging module			
Brake chopper	with passive supply unit or charging module			
Cooling	wall-mounted, cold plate, push-through, water			

* preliminary values

– in preparation –