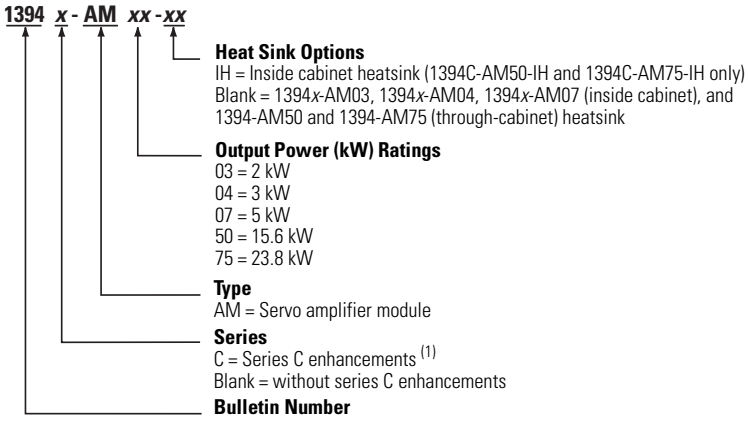
1394 Axis Modules



(1) Series C axis modules have improved terminations and EMI filtering.

1394 Series Change

Series C system modules (catalog numbers 1394C-SJT*xx-x*) and axis modules (catalog numbers 1394C-AM*xx* and 1394C-AM*xx*-IH) include features not available on series A and B modules (catalog numbers 1394-SJT*xx-x* and 1394-AM*xx*).

System Module Features

Features	Series C and D	Series A and B
Connector (plug-in) input power termination	Yes	No
Cable Clamp (strain relief, shield bond)	Yes	No
EMI filter (24V input power, registration)	Yes	No
Smart Power (Soft Start, power monitor)	Yes	22 kW systems only

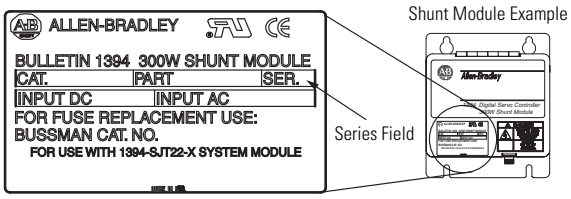
Axis Module Features

Features	Series C	Series A and B
Cable Clamp (strain relief, shield bond)	Yes	No
EMI filter (motor brake and thermal circuit)	Yes	No

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To determine the series designator, check the series field on the Allen-Bradley label attached to your system, axis, and shunt modules. The series designator is located as shown in the example below.

Allen-Bradley Label

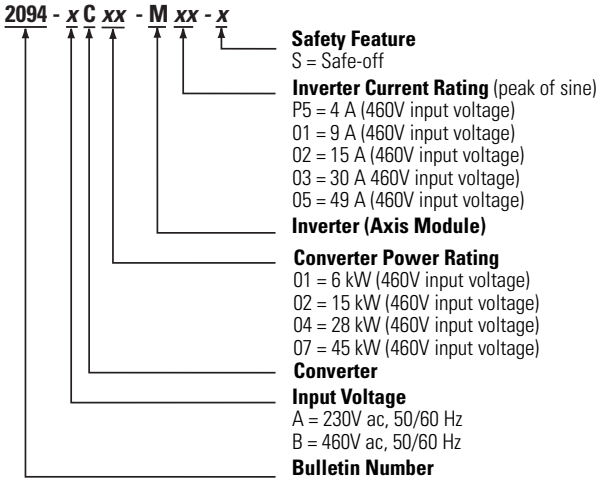


Series Catalog Numbers for 1394 Drive Modules

1394 Modules	Module Functionality	Series D	Series C	Series A and B
System modules	Analog	N/A	1394C-SJT*xx*-A	1394-SJT*xx*-A
	GMC		1394C-SJT*xx*-C	1394-SJT*xx*-C
	GMC Turbo		1394C-SJT*xx*-T	1394-SJT*xx*-T
	GMC (1.5 axis)		1394C-SJT*xx*-L	N/A
	SERCOS interface	1394C-SJT*xx*-D	1394C-SJT*xx*-D	N/A
Axis modules	Inverter (no heatsink)	N/A	1394C-AM03, 1394C-AM04 and 1394C-AM07	1394-AM03, 1394-AM04 and 1394-AM07
	Inverter (external heatsink)		1394C-AM50 and 1394C-AM75	1394-AM50 and 1394-AM75
	Inverter (internal heatsink)		1394C-AM50-IH and 1394C-AM75-IH	N/A

Catalog Numbers for Kinetix 6000 Drives

Kinetix 6000 IAM Module Catalog Numbers



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1394 Axis Module Specifications

Attribute	Value				
	1394*x*-AM03	**1394*x*-AM04**	**1394*x*-AM07**	**1394*x*-AM50 and 1394C-AM50-IH**	**1394*x*-AM75 and 1394C-AM75-IH**
Speed regulation [1]	0…0.05% of base speed with 100% torque disturbance				
Static gain (rms A/mV) [1]	1.28	2.6	4.9	22.8	22.8
Peak current limit adjust	200%	200%	200%	143%	143%
Modulation frequency	5 kHz ±10%	5 kHz ±10%	5 kHz ±10%	5 kHz ±10%	5 kHz ±10%
Drift	0.03 rpm/ °C	0.03 rpm/ °C	0.03 rpm/ °C	0.03 rpm/ °C	0.03 rpm/ °C
Nominal input voltage	530/680V dc	530/680V dc	530/680V dc	530/680V dc	530/680V dc
Continuous current (rms)	3.0 A	4.5 A	7.5 A	23.3 A	35.0 A
Peak current (rms - 1 second)	6.0 A	9.0 A	15.0 A	33.2 A	50.0 A
Continuous power out 360/460V nominal	1.6/2 kW	2.4/3 kW	4/5 kW	11.34/15.6 kW	17.8/23.8 kW
Efficiency	98%	98%	98%	98%	98%
Weight	5 kg (11.02 lb)	5 kg (11.02 lb)	5 kg (11.02 lb)	7 kg (15.44 lb) (1394-AM50 module)	7 kg (15.44 lb) (1394-AM75 module)
				6.73 kg (14.8 lb) (1394-AM50-IH module)	6.73 kg (14.8 lb) (1394-AM75-IH module)
Capacitance	110 µF	110 µF	220 µF	465 µF	660 µF

[1] When used with the controller in the (catalog number 1394*x*-SJT*xx*-*x*) system module.

1394 Fuse Specifications

1394 System Module Cat. No.	Series	Bussmann Fuse Description	Rating
1394-SJT05 systems	Series A and B	FRS-R-20 or equivalent	600V ac, 20 A
1394C-SJT05 systems	Series C and D	KTK-R-20 or equivalent	600V ac, 20 A
		LPJ-SP 20 or equivalent	600V ac, 20 A
1394-SJT10 systems	Series A and B	FRS-R-30 or equivalent	600V ac, 30 A
1394C-SJT10 systems	Series C and D	KTK-R-30 or equivalent	600V ac, 30 A
		LPJ-SP 30 or equivalent	600V ac, 30 A
1394*x*-SJT22 systems		FRS-R-35 or equivalent	600V ac, 35 A
		LPS-RK-SP 40 or equivalent	600V ac, 40 A
		LPJ-SP 45 or equivalent	600V ac, 45 A

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1394 Contactor (M1) Specifications

1394 System Module Cat. No.	Series	Allen-Bradley Contactor Description	Rating
1394-SJT05 and 1394-SJT10	Series A and B	100-C43*x*10 (ac coil) 100-C43Z*x*10 (dc coil)	600V ac, 43 A
1394C-SJT05 and 1394C-SJT10	Series C and D	100-C23*x*10 (ac coil) 100-C23Z*x*10 (dc coil)	600V ac, 23 A
1394*x*-SJT22		100-C37*x*10 (ac coil) 100-C37Z*x*10 (dc coil)	600V ac, 37 A

IMPORTANT Use the power dissipation figures shown below to calculate cumulative system heat dissipation to ensure that the ambient temperature inside the enclosure does not exceed 50 °C (122 °F). To calculate total power dissipation, add the dissipation of the system module to the dissipation of the axis modules.

1394 System Power Dissipation Specifications

1394 Drive Module Cat. No.	Usage as % of Rated Power Output (watts)				
	20%	40%	60%	80%	100%
System Modules					
1394*x*-SJT05-*x*	66	70	73	77	80
1394*x*-SJT10-*x*	70	77	84	81	98
1394*x*-SJT22-*x*	100	150	200	250	300
Axis Modules					
1394*x*-AM03	24	30	36	42	48
1394*x*-AM04	27	36	45	54	63
1394*x*-AM07	33	48	63	78	93
1394-AM50 [1] and 1394-AM50-IH [2]	56	95	139	183	227
1394-AM75 [1] and 1394-AM75-IH [2]	85	145	212	279	346
1394-AM50 (inside the cabinet) [1]	18	18	18	18	18
1394-AM50 (outside the cabinet) [1]	38	77	138	165	209
1394-AM75 (inside the cabinet) [1]	18	18	18	18	18
1394-AM75 (outside the cabinet) [1]	67	127	194	261	324

(1) The 1394-AM50 and 1394-AM75 axis modules are designed to mount with the rear heat sink extended outside the customer-supplied enclosure. If the modules are mounted entirely inside the customer-supplied enclosure, the full power dissipation is inside the cabinet (the sum of the inside/outside columns).

(2) The 1394-AM50-IH and 1394-AM75-IH axis modules are designed to mount entirely inside the customer-supplied enclosure.

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1394 Drives/1326AB (460V) Motors Performance Specifications

Motor Cat. No.	Max Speed rpm	System Continuous Stall Current A rms	System Continuous Stall Torque Nm (lb-in)	System Peak Stall Current A rms	System Peak Stall Torque Nm (lb-in)	Motor Rated Output kW	1394 Axis Module Cat. No.
1326AB-B410G	5000	2.45	2.7 (24)	6.0	6.6 (58)	1.0	1394*x*-AM03
				7.32	8.1 (72)		1394*x*-AM04
1326AB-B410J	7250	3.0	2.3 (21)	6.0	4.7 (42)	1.4	1394*x*-AM03
		3.48	2.7 (24)	9.0	7.0 (62)		1394*x*-AM04
				10.4	8.1 (72)		1394*x*-AM07
1326AB-B420E	3000	2.84	5.0 (44)	6.0	10.6 (94)	1.1	1394*x*-AM03
				8.0	14.9 (132)		1394*x*-AM04
1326AB-B420H	6000	3.0	2.8 (25)	6.0	5.6 (50)	2.2	1394*x*-AM03
		4.5	4.2 (37)	9.0	8.4 (74)		1394*x*-AM04
		5.46	5.1 (45)	15.0	14.0 (124)		1394*x*-AM07
1326AB-B430E	3000	3.0	5.1 (45)	6.0	10.1 (89)	1.4	1394*x*-AM03
		3.9	6.6 (58)	9.0	15.2 (135)		1394*x*-AM04
				11.6	19.7 (174)		1394*x*-AM07
1326AB-B430G	5000	4.5	5.2 (46)	9.0	10.3 (92)	2.3	1394*x*-AM04
		5.6	6.4 (57)	15.0	17.2 (153)		1394*x*-AM07
1326AB-B515E	3000	4.5	7.7 (68)	9.0	15.4 (136)	2.3	1394*x*-AM04
		6.1	10.4 (92)	15.0	25.6 (226)		1394*x*-AM07
				18.3	31.2 (276)		1394*x*-AM50
1326AB-B515G	5000	7.5	7.9 (70)	15	15.8 (140)	2.9	1394*x*-AM07
		9.5	10.4 (92)	28.5	31.2 (276)		1394*x*-AM50
1326AB-B520E	3000	4.5	8.8 (78)	9.0	17.7 (157)	2.9	1394*x*-AM04
		6.7	13.0 (115)	15.0	29.4 (260)		1394*x*-AM07
				20.1	39.0 (345)		1394*x*-AM50
1326AB-B520F	3500	7.5	11.2 (99)	15.0	22.4 (198)	2.9	1394*x*-AM07
		8.8	13.1 (116)	26.4	39.3 (348)		1394*x*-AM50
1326AB-B530E	3000	7.5	14.2 (126)	15.0	28.4 (251)	4.2	1394*x*-AM07
		9.5	18.0 (160)	28.5	54.2 (480)		1394*x*-AM50
1326AB-B720E	3500	17.5	30.9 (273)	33.2	58.5 (518)	6.8	1394*x*-AM50
				50.0	88.1 (780)		1394*x*-AM75
1326AB-B720F	5000	27.5	31.8 (282)	33.2	38 (336)	11.7	1394*x*-AM50
				50	56 (495)		1394*x*-AM75
1326AB-B730E	3350	22.8	39.0 (345)	33.2	56.8 (502)	9.6	1394*x*-AM50
				50.0	85.4 (756)		1394*x*-AM75

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