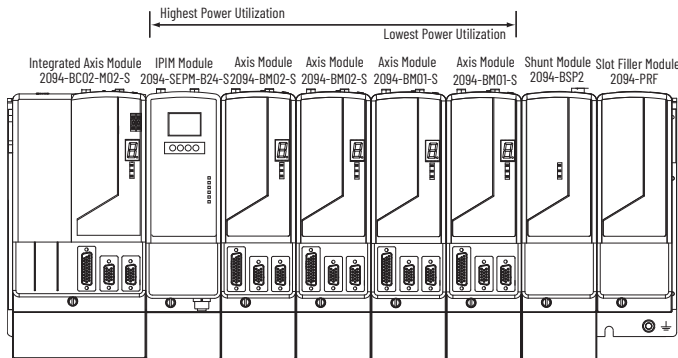


Determine Mounting Order

Mount the integrated axis module (IAM), axis modules (AM), and IDM power interface modules (IPIM), shunt, and slot-filler modules in the order (left to right) as shown. Mount the axis modules and IPIM modules according to power utilization (highest to lowest) from left to right starting with the highest power utilization.

Power utilization is the average power (kW) consumed by a servo axis. If Motion Analyzer software was used to size the axis, use the calculated axis power that is required for the power utilization value. If Motion Analyzer software was not used, use the continuous power value (kW) for each module to determine mounting order.

Module Mounting Order Example



IMPORTANT The IAM module must be positioned in the leftmost slot of the power rail. Position your AM/IPIM modules, shunt module, and slot-filler modules to the right of the IAM module. The shunt module must be installed to the right of the last AM/IPIM module. Only slot-filler modules can be installed to the right of the shunt module. Do not mount the shunt module on power rails with a follower IAM module. Common-bus follower IAM modules disable the internal, rail mounted, and external shunt modules.



SHOCK HAZARD: To avoid personal injury due to electrical shock, place a 2094-PRF slot-filler module in all empty slots on the power rail. Any power rail connector without a module installed disables the drive system; however, control power is still present.

Ambient Temperature

Attribute	Operational Range	Storage Range (nonoperating)
Ambient temperature	0...50 °C (32...122 °F)	-40...70 °C (-40...158 °F)

Weight Specifications

Kinetix 6000 System Component	Cat. No.	Weight, approx kg (lb)	Kinetix 6000 System Component	Cat. No.	Weight, approx kg (lb)
IAM (230V)	2094-AC05-MP5-S	2.23 (4.9)	AM (230V)	2094-AMP5-S	1.46 (3.2)
	2094-AC05-M01-S	2.27 (5.0)		2094-AM01-S	1.50 (3.3)
	2094-AC09-M02-S	2.31 (5.1)		2094-AM02-S	1.54 (3.4)
	2094-AC16-M03-S	4.71 (10.4)		2094-AM03-S	3.13 (6.9)
	2094-AC32-M05-S	7.43 (16.4)		2094-AM05-S	3.18 (7.0)
IAM (460V)	2094-BC01-MP5-S	4.98 (11.0)	AM (460V)	2094-BMP5-S	2.44 (5.4)
	2094-BC01-M01-S	5.03 (11.1)		2094-BM01-S	2.49 (5.5)
	2094-BC02-M02-S	5.08 (11.2)		2094-BM02-S	2.54 (5.6)
	2094-BC04-M03-S	9.60 (21.1)		2094-BM03-S	4.58 (10.1)
	2094-BC07-M05-S	10.1 (22.3)		2094-BM05-S	4.98 (11.0)

Short Circuit Current Rating

The short-circuit current rating is 200,000 A (rms) symmetrical.

Branch Circuit Short-circuit Protection

Integral solid-state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electric Code (NEC) and any additional local codes.

IAM Module (converter) 200V-class Power Specifications

Attribute	2094-AC05-MP5-S	2094-AC05-M01-S	2094-AC09-M02-S	2094-AC16-M03-S	2094-AC32-M05-S
AC input voltage	195...264V rms three-phase (230V nom)				
DC input voltage (common-bus follower)	275...375V DC				
Control power AC input voltage	95...264V rms single-phase (230V nom)				
Continuous output current to bus (A_{dc})	10 A	19 A	36 A	71 A	
Continuous power output to bus	3 kW	6 kW	11.3 kW	22.5 kW	

IAM Module (converter) 400V-class Power Specifications

Attribute	2094-BC01-MP5-S	2094-BC01-M01-S	2094-BC02-M02-S	2094-BC04-M03-S	2094-BC07-M05-S
AC input voltage	324...528V rms three-phase (360...480V nom)				
DC input voltage (common bus follower)	458...747V DC				
Control power AC input voltage	95...264V rms single-phase (110...240V rms nom)				
Continuous output current to bus (A_{dc})	9.0 A	22.6 A	41.5 A	67.7 A	
Continuous power output to bus	6 kW	15 kW	27.6 kW	45 kW	

AM Module (inverter) 200V-class Power Specifications

Attribute	2094-AMP5-S (2094-AC05-MP5-S)	2094-AM01-S (2094-AC05-M01-S)	2094-AM02-S (2094-AC09-M02-S)	2094-AM03-S (2094-AC16-M03-S)	2094-AM05-S (2094-AC32-M05-S)
Nominal input voltage	325V DC				
Continuous current (rms)	3.7 A	6.0 A	10.6 A	17.3 A	34.6 A
Continuous current (0-pk)	5.2 A	8.5 A	15.0 A	24.5 A	48.9 A
Continuous power out (nom)	1.2 kW	1.9 kW	3.4 kW	5.5 kW	11.0 kW

AM Module (inverter) 400V-class Power Specifications

Attribute	2094-BMP5-S (2094-BC01-MP5-S)	2094-BM01-S (2094-BC01-M01-S)	2094-BM02-S (2094-BC02-M02-S)	2094-BM03-S (2094-BC04-M03-S)	2094-BM05-S (2094-BC07-M05-S)
Nominal input voltage	650V DC				
Continuous current (rms) ⁽¹⁾	2.8 A	6.1 A	10.3 A	21.2 A	34.6 A
Continuous current (sine) 0-pk ⁽¹⁾	4.0 A	8.6 A	14.6 A	30.0 A	48.9 A
Continuous power out (nom)	1.8 kW	3.9 kW	6.6 kW	13.5 kW	22.0 kW

(1) Continuous and peak current ratings are for high-speed operation. For constant velocity operation at an electrical output frequency below 5 Hz (75 rpm for 8-pole motors), the output current rating is reduced.