

## Bulletin 2094 Power Rail

The Bulletin 2094 power rail is compatible with Kinetix 6000, Kinetix 6000M, Kinetix 6200, and Kinetix 6500 drive families. This section contains selection information, mounting dimensions, and catalog numbers for the 2094-PRS $x$  (slim) power rails. Bulletin 2094 power rails are compatible with all 200V-class and 400V-class drive modules.

### Catalog Numbers - Bulletin 2094 Power Rails

Power Rail Cat. No.	Description <sup>(1)</sup>
2094-PRS1	1 axis power rail. Bulletin 2094 IAM module without any additional drive modules.
2094-PRS2	2 axis power rail. Bulletin 2094 IAM module with up to one additional drive module.
2094-PRS3	3 axis power rail. Bulletin 2094 IAM module with up to two additional drive modules.
2094-PRS4	4 axis power rail. Bulletin 2094 IAM module with up to three additional drive modules.
2094-PRS5	5 axis power rail. Bulletin 2094 IAM module with up to four additional drive modules.
2094-PRS6	6 axis power rail. Bulletin 2094 IAM module with up to five additional drive modules.
2094-PRS7	7 axis power rail. Bulletin 2094 IAM module with up to six additional drive modules.
2094-PRS8	8 axis power rail. Bulletin 2094 IAM module with up to seven additional drive modules.

(1) Bulletin 2094 drive modules include axis modules, shunt module, and slot-filler modules.

### Technical Specifications - Bulletin 2094 Power Rails

#### IAM, AM, and Shunt Module Slot Requirements

IAM Module Cat. No.	Converter Slot Used	Inverter Slots Used	
2094-AC05-MP5-S	200V-class	1	
2094-AC05-M01-S		1	
2094-AC09-M02-S		1	
2094-AC16-M03-S		1	
2094-AC32-M05-S		2	
2094-BC01-MP5-S 2094-BC01-MP5-M	400V-class	1	
2094-BC01-M01-S 2094-BC01-M01-M		1	
2094-BC02-M02-S 2094-BC02-M02-M		1	
2094-BC04-M03-S 2094-BC04-M03-M		2	
2094-BC07-M05-S 2094-BC07-M05-M		2	
<b>Shunt Module Cat. No.</b>		<b>Converter Slot Used</b>	<b>Inverter Slots Used</b>
2094-BSP2		200/400V-class	0

AM Module Cat. No.	Converter Slot Used	Inverter Slots Used
2094-AMP5-S	200V-class	1
2094-AM01-S		1
2094-AM02-S		1
2094-AM03-S		1
2094-AM05-S		1
2094-BMP5-S 2094-BMP5-M	400V-class	1
2094-BM01-S 2094-BM01-M		1
2094-BM02-S 2094-BM02-M		1
2094-BM03-S 2094-BM03-M		2
2094-BM05-S 2094-BM05-M		2
<b>IPIM Module Cat. No.</b>		<b>Converter Slot Used</b>
2094-SEPM-B24-S	400V-class	0

IAM modules (catalog numbers 2094-AC32-M05-S, 2094-BC04-M03- $x$ , and 2094-BC07-M05- $x$ ) and AM modules (catalog numbers 2094-BM03- $x$  and 2094-BM05- $x$ ) are double-wide modules and require two slots on the power rail.

In this table, the 400V-class system specifications are given for the IAM module internal shunt resistors, the 2094-BSP2 shunt module, and the Bulletin 1394 external shunt modules.

**Bulletin 2094 Shunt Module (400V-class) System Specifications**

IAM Module Cat. No.	Number of Axis Modules Qty	Shunt Module Cat. No.	Specifications				External Passive Shunt Module <sup>(1)</sup>	System Continuous Shunt Power W
			Resistance $\Omega$	Peak Current A	Peak Power kW	Continuous Power W		
2094-BC01-MP5-S 2094-BC01-MP5-M	0...7	N/A <sup>(2)</sup>	–	–	–	–	N/A <sup>(2)</sup>	50 plus <sup>(3)</sup>
2094-BC01-M01-S 2094-BC01-M01-M			–	–	–	–		50 plus <sup>(3)</sup>
2094-BC02-M02-S 2094-BC02-M02-M			–	–	–	–		50 plus <sup>(3)</sup>
2094-BC04-M03-S 2094-BC04-M03-M			–	–	–	–		200 plus <sup>(4)</sup>
2094-BC07-M05-S 2094-BC07-M05-M			–	–	–	–		
2094-BCxx-Mxx-x	1...6	2094-BSP2	28.75	28	22.5	200	N/A <sup>(2)</sup>	200 plus <sup>(5)</sup>
2094-BCxx-Mxx-x	1...6	2094-BSP2	4	201.3	162	300	1394-SR9A	300 <sup>(6)</sup>
2094-BCxx-Mxx-x						900	1394-SR9AF	900 <sup>(6)</sup>
2094-BCxx-Mxx-x						1800	1394-SR36A	1800 <sup>(6)</sup>
2094-BCxx-Mxx-x						3600	1394-SR36AF	3600 <sup>(6)</sup>

- (1) Refer to External Shunt Modules beginning on [page 116](#) for shunt module specifications.
- (2) Module not part of system configuration.
- (3) Shunt power equals 50 or the sum of the AM module internal shunt ratings.
- (4) Shunt power equals 200 plus the sum of the AM module internal shunt ratings.
- (5) Shunt power equals 200 plus the sum of the IAM and AM module internal shunt ratings.
- (6) Use of external shunt module disables internal IAM/AM shunt modules.

## Connector Sets

### Kinetix 6000, Kinetix 6200, Kinetix 6500 Drive Families

Drive Module	Drive Cat. No.	Description	Cat. No.
IAM module (converter connectors)	2094-AC05-Mxx-S and 2094-AC09-M02-S	Includes control power (CPD), DC bus/AC input (IPD), and contactor enable (CED) replacement connectors for the IAM (converter) module.	2094-ANCON-1
	2094-AC16-M03-S and 2094-AC32-M05-S		2094-XNCON-2
	2094-BC01-Mxx-S and 2094-BC02-M02-S 2094-BC01-Mxx-M and 2094-BC02-M02-M		2094-BNCON-1
	2094-BC04-M03-S and 2094-BC07-M05-S 2094-BC04-M03-M and 2094-BC07-M05-M		2094-XNCON-2
IAM/AM module (inverter connectors)	2094-AC05-Mxx-S, 2094-AC09-M02-S, 2094-AMP5-S, 2094-AM01-S, 2094-AM02-S	Includes motor power (MP), motor/resistive brake (BC), and safe-off (SO), replacement connectors for the IAM and AM (inverter) modules. Also includes bracket kit for sercos fiber-optic cable connectors.	2094-XNINV-1
	2094-AC16-M03-S and 2094-AC32-M05-S 2094-AM03-S, 2094-AM05-S 2094-BC04-M03-S, 2094-BM03-S 2094-BC04-M03-M, 2094-BM03-M		2094-ANINV-2
	2094-BC01-Mxx-S and 2094-BC02-M02-S 2094-BC01-Mxx-M and 2094-BC02-M02-M 2094-BMP5-S, 2094-BM01-S, 2094-BM02-S 2094-BMP5-M, 2094-BM01-M, 2094-BM02-M		2094-XNINV-1
	2094-BC07-M05-S, 2094-BM05-S 2094-BC07-M05-M, 2094-BM05-M		2094-BNINV-2
Shunt module	2094-BSP2	Includes external shunt resistor (RC) and external thermal switch (TS) replacement connectors for the shunt module.	2094-XNSHT-1

### Kinetix 3, Kinetix 300, Kinetix 350, and Kinetix 7000 Drive Families

Drive Family	Drive Cat. No.	Description	Cat. No.
Kinetix 3	2071-Axx	Includes general purpose input power (IPD), analog output (A.out), shunt resistor (BC), and motor power (MP) replacement connectors for Kinetix 3 drives.	2071-CONN1
Kinetix 300	2097-V3xPRx or	Includes AC input power (IPD), back-up power (CPD), shunt and DC bus (BC), motor power (MP), and safe-off (STO) replacement connectors for Kinetix 300/350 drives.	2097-CONN1
Kinetix 350	2097-V3xPRx-LM		
Kinetix 7000	2099-BMxx-S	Includes safe-off (SO), general purpose I/O (GPIO), general purpose relay (GPR), and control power (CP) replacement connectors for Kinetix 7000 drives.	2099-K7KCK-1

### Line Interface Module (LIM) and Resistive Brake Module (RBM)

Module	Cat. No.	Description	Cat. No.
Line interface module (LIM)	2094-AL09 and 2094-BL02	Includes VAC line (IPL), VAC load (OPL), control power (CPL), and 24V brake power (PSL) replacement connectors.	2094-XNLIM-1
	2094-ALxxS, 2094-BLxxS, and 2094-XL75S-Cx	Includes I/O (IOL), VAC line (IPL), VAC load (OPL), control power (CPL), 230V auxiliary output (P2L), 24V brake power (P1L), and 230V auxiliary input (APL) replacement connectors.	2094-XNLIM-2
Resistive brake module (RBM)	2090-XB33-xx	Includes I/O connector (TB3), drive connector (TB1), and motor connector (TB2).	2090-XNRBM-1
	2090-XB120-xx	Includes I/O connector (TB3), 230V input power connector (TB4), drive connector (TB1), and motor connector (TB2).	2090-XNRBM-2

## AC Line Filters

This section contains AC line filter selection tables, specification tables, and dimension drawings. Use the tables below to match an AC line filter to your servo drive.

### AC Line Filter Catalog Numbers

Drive Family	Drive Cat. No.	AC Line Filter Cat. No.
Kinetix 6000	2094-AC05-MP5-S	2090-XXLF-X330B
	2094-AC05-M01-S	
	2094-AC09-M02-S	
	2094-AC16-M03-S	2090-XXLF-375
	2094-AC32-M05-S	2090-XXLF-3100
	2094-BC01-MP5-S	2090-XXLF-X330B
	2094-BC01-M01-S	
	2094-BC02-M02-S	
	2094-BC04-M03-S	2090-XXLF-375B
	2094-BC07-M05-S	2090-XXLF-3100
Kinetix 6200/ Kinetix 6500	2094-BC01-MP5-M	2090-XXLF-X330B
	2094-BC01-M01-M	
	2094-BC02-M02-M	
	2094-BC04-M03-M	2090-XXLF-375B
	2094-BC07-M05-M	2090-XXLF-3100
Kinetix 300/ <sup>(2)</sup> Kinetix 350	2097-V31PR0-xx	2090-XXLF-TC116
	2097-V31PR2-xx	
	2097-V33PR5-xx	2090-UXLF-336

Drive Family	Drive Cat. No.	AC Line Filter Cat. No.
Kinetix 3	2071-AP0...2071-AP4	2090-XXLF-TC116
	2071-AP8 (single-phase)	
	2071-AP8 (three-phase)	2090-XXLF-TC316
	2071-A10...2071-A15	
Kinetix 2000	2093-AC05-Mxx	2090-XXLF-TC116
		2090-XXLF-TC316
Kinetix 7000	2099-BM06-S	2090-XXLF-TC350
	2099-BM07-S	
	2099-BM08-S	2090-XXLF-TC365
	2099-BM09-S	2090-XXLF-TC3100
	2099-BM10-S	2090-XXLF-TC3150
	2099-BM11-S	2090-XXLF-TC3200
8720MC-RPS	2099-BM12-S	N/A
	8720MC-RPS065-Bx	8720MC-RF180
		8720MC-RPS190-Bx

(1) Line filter unit includes magnetic contactor, harmonic filter, and varistor.

(2) For Bulletin 2097 line filters used with the Kinetix 300/350 drive families, refer to Kinetix Servo Drives Technical Data, publication [GMC-TD003](#).

### AC Line Filter Catalog Numbers

Drive Family	Drive Cat. No.	AC Line Filter Cat. No.	Motor Cables > 30 m
Ultra3000	2098-DSD-005	2090-UXLF-106	2090-UXLF-110
	2098-DSD-010	2090-UXLF-110	2090-UXLF-110
	2098-DSD-020	2090-UXLF-123	2090-UXLF-123
	2098-DSD-030	2090-UXLF-136	2090-UXLF-132
	2098-DSD-075	2090-UXLF-336	2090-UXLF-HV330
	2098-DSD-150	2090-UXLF-350	2090-UXLF-HV350
	2098-DSD-HV030, 2098-DSD-HV050, 2098-DSD-HV100, 2098-DSD-HV150	2090-UXLF-HV323	2090-UXLF-HV323
	2098-DSD-HV220	2090-UXLF-HV330	2090-UXLF-HV330