Adept Viper™ s650

Reach	653 mm
Payload (max)	2.5 kg (rated)
	5 kg (max)
Joint Range	
Joint 1	± 170°
Joint 2	-190°, +45°
Joint 3	-29°, +256°
Joint 4	± 190°
Joint 5	± 120°
Joint 6	± 360°
Inertia Moment (max)	
Joint 4	0.295 kgm²
Joint 5	0.295 kgm ²
Joint 6	0.045 kgm ²
Composite Speed (max)	8,200 mm/sec
Joint Speeds	
Joint 1	328°/sec
Joint 2	300°/sec
Joint 3	375°/sec
Joint 4	375°/sec
Joint 5	375°/sec
Joint 6	600°/sec
Repeatability (XYZ)	± 0.020 mm
Pass-Through User Conn	ections
(routed from robot base	to outer link)
Electrical	10
Pneumatic	1
Brakes	Joints 2 - 6
Internal Solenoids	Three 2-position
	solenoids
	(connected to
	controller by user
Ingress Protection	IP40
	(IP54/65 optiona
Mounting	Floor/Table
	and Ceiling
Weight (approx)	28 kg
Environmental Requirem	ents
Ambient temperature	5 - 40 °C
Humidity range	5 - 90 %
	(non condensing)

24VDC (± 10%), 120W (5A),

Power Requirements for MotionBlox-60R

24VDC (+/- 10%), 150W (6A) 200V to 240V AC, 1-phase, 50/60Hz,

User-Supplied

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The Adept Viper 6-axis robot family is a high-performance line of robots designed specifically for a multitude of applications. The speed and precision of the Adept Viper robots make them ideal for assembly, material handling, packaging, machine tending, medical, pharmaceutical and many other operations requiring fast and precise automation. The Adept Viper product family is available in standard, clean-room and IP65 versions for both the Adept Viper s650 and Adept Viper s850

Product Features and Benefits

robots.

- · Absolute encoders make for easy calibration
- Complete interchangeability between robots and controllers
- High-resolution encoders provide high-precision and superior slow-speed following
- High-efficiency motors deliver high performance with more torque per amp
- 8 kHz servo update rate for improved path following and control
- Proven design offers high reliability and low MTTR
- · Diagnostics display enables faster troubleshooting

Other Options:

- Adept DeskTop
- Adept Vision (AdeptSight or sAVI)
- Dual configuration
- T1 Pendant
- sMI6
- sDIO
- · Clean-room (class 1) versions
- IP65 versions
- UL Listed versions