VM-D Series Vertical articulated robot (Dust-proof & splash-proof type) Robot Specifications [VM-6083D-W]

Item		Specifications
		Dust-proof & splash-proof type (VM-W)
Model name of robot set (Note 1)		VM-6083D-W
Model name of robot unit		VM-6083DM-W
Overall arm length		385 (first arm) + 445 (second arm) = 830 mm
Arm offset		J1 (swing): 180 mm, J3 (front arm): 100 mm
Maximum workable space		R = 1,111 mm (end-effector mounting face) R = 1,021 mm (Point P: J4, J5, J6 center)
Motion range		J1: ±170°, J2: +135°, -90°, J3: +165°, -80° J4: ±185°, J5: ±120°, J6: ±360°
Maximum payload		10 kg
Maximum composite speed		8300 mm/s (at the center of an end-effector mounting face)
Position repeatability (Note 2)		In each of X, Y and Z directions: ±0.05 mm (at the center of an end-effector mounting face)
Maximum allowable inertia		Around J4 and J5: 0.36 kgm²
moment		Around J6: 0.064 kgm²
Position detection		Absolute encoder
Drive motor and brake		AC servomotors for all joints,
		Brakes for joints J2 to J6
User air piping (Note 3)		7 systems (φ4x6, φ6x1), 3 solenoid valves
		(2-position, double solenoid) contained.
User signal line		10 (for proximity sensor signals, etc.)
Air source	Operating pressure	1.0 × 10⁵ Pa to 3.9 × 10⁵ Pa
	Maximum allowable pressure	4.9 × 10 ⁵ Pa
Degree of protection		IP54 (Wrist: IP65)
Weight		Approx. 78 kg
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Note 1: The model name of robot set refers to the model name of a complete set including a robot unit and robot controller.

Note 2: Position repeatability is the value at constant ambient temperature.

Note 3: Only the $\phi 4x6$ air piping system may be controlled by built-in solenoid valves.

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Outer Dimensions and Workable Space VM-6083D-W

Unit (mm)

