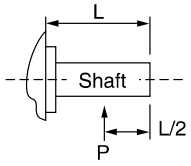
MDMF (medium inertia moment) 1000–1500W, 200V AC

Servo motor		MDMF102L1☐☐	MDMF152L1☐☐
Rated power		1000	1500
Required power kVA		1.8	2.3
Rated current A		5.2	8
Max. current A o-p		22	32
Rotational speed r/min	Rated rotational speed	2000	
	Max. rotational speed	3000	
Weight kg	Without holding brake	4.6	5.7
	With holding brake	6.1	7.2
Torque Nm	Nominal	4.77	7.16
	Maximal	14.3	21.5
Encoder	Pulses	23 bit incremental	
	Resolution	8388608ppr	
Braking resistor frequency times/min	Without external braking resistor	No limit	
	With external resistor	No limit	
Moment of inertia of rotor ($x10^{-4}kg \cdot m^2$)	Without holding brake	6.18	9.16
	With holding brake	7.4	10.4
Recommended inertia ratio between load and rotor		Max.10:1	
Operating conditions	Temperature (without frost)	0–55°C	
	Ambient humidity	20–85% RH (non-condensing)	
	Altitude	Max. 1000m above sea level	
	Vibration	$5.88 m/s^2$	
Holding brake specifications (The holding brake is engaged when the power for the servo driver is shut off. Do not use the holding brake when the motor is in motion.)			
Static friction torque Nm		Min. 13.7	
Engaging time ms		Max. 100	
Releasing time ms		Max. 50	
Excitation current A DC		0.79 ±10%	
Releasing voltage V DC		Min. 2	
Excitation voltage V DC		24 ±2.4	
Permissible load and thrust at output shaft			
Radial load P direction N*	During installation	980	
	During operation	490	
Axial thrust (push) N*	During installation	588	
	During operation	196	
Axial thrust (pull) N*	During installation	689	
	During operation	196	

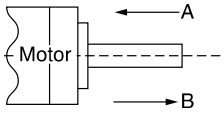
☐☐ Motor type, see brochure *Servo drives 4247euen*, page 20

* Permissible load and thrust at output shaft

Radial load, P direction



Thrust load, A and B direction



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