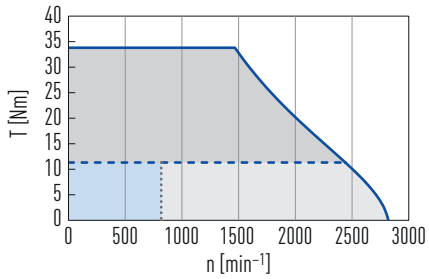
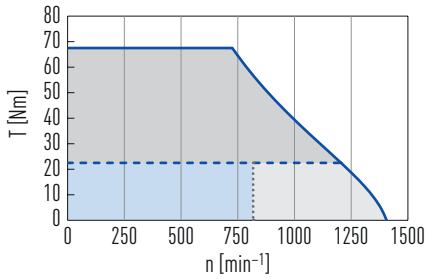
Specifications

Torque-speed curves (DC bus voltage: 600 VDC)

DMR14



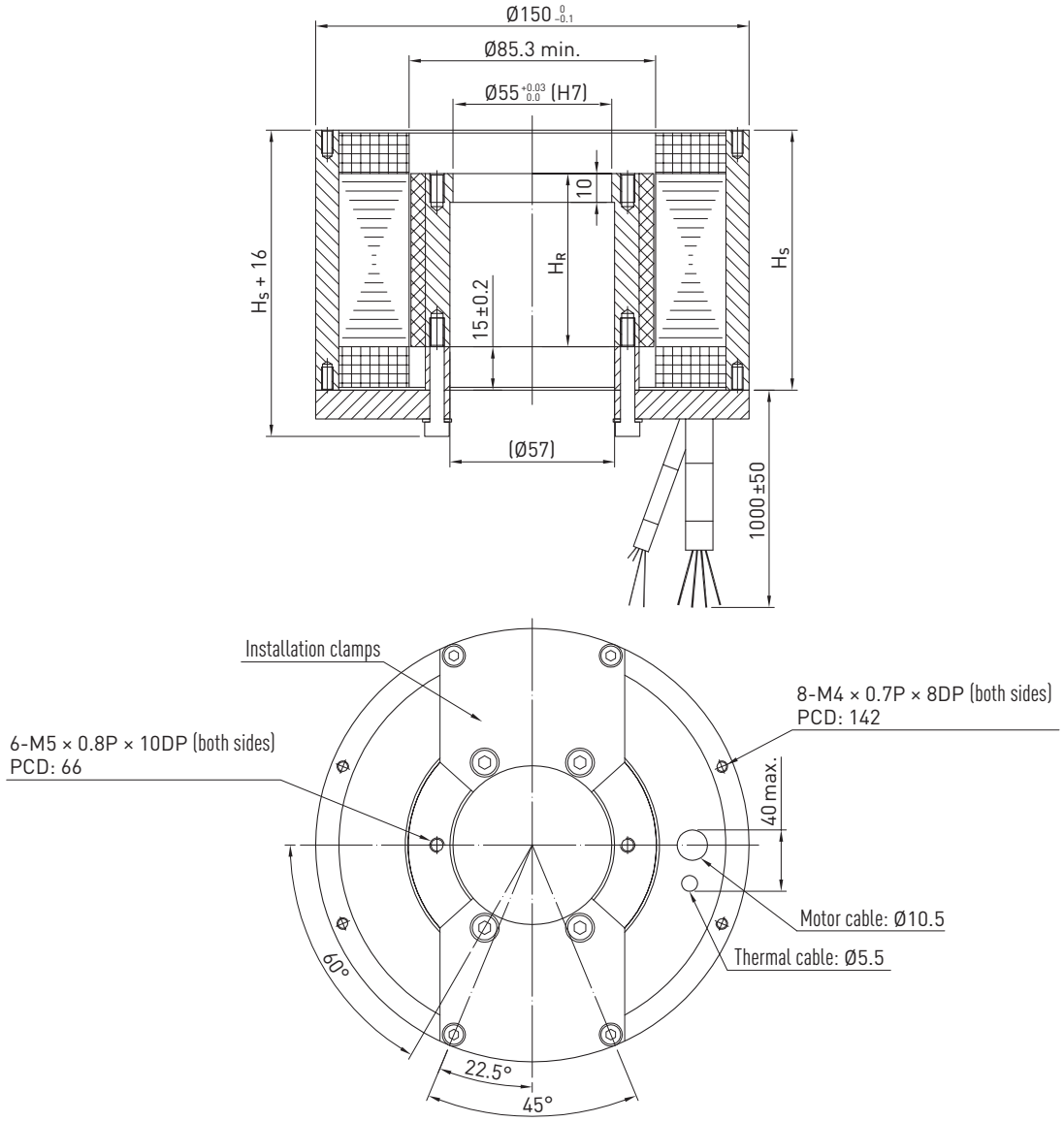
DMR18



Technical data for DMR1				
	Symbol	Unit	DMR14	DMR18
Torques and electrical parameters				
Peak torque (for 1 sec.)	T_p	Nm	33.8	67.5
Continuous torque [1]	T_c	Nm	11.3	22.5
Stall torque	T_s	Nm	7.9	15.8
Peak current (for 1 sec.)	I_p	A	13.5	13.5
Continuous current [1]	I_c	A	4.5	4.5
Stall current	I_s	A	3.2	3.2
Resistance [2]	R_{25}	Ω	3.9	6.5
Inductance [2]	L_{25}	mH	14	26
Motor constant	K_m	Nm/√W	1.0	1.6
Electrical time constant	K_e	ms	3.6	4.0
Torque constant	K_t	Nm/A	2.50	5.0
Back emf constant	K_u	V_{eff}/(rad/s)	1.2	2.4
Inertia of rotor	J	kgm^2	0.00088	0.00175
Thermal resistance	R_{th}	°C/W	0.8	0.48
Thermal time constant	T_{th}	s	2,290	2,520
Max. DC Bus	U_{max}	VDC	600	
Rated speed	n_N	min^{-1}	818	818
Mechanical parameters				
Number of poles	2p		22	
Thermal sensor			PTC SNM 120	
Stator height	H_S	mm	70	110
Rotor height	H_R	mm	40	80
Mass of motor	M_m	kg	4.8	8.3

All the specifications in the table (except dimensions) are in ± 10 % of tolerance at 25 °C ambient temperature
[1] Coil temperature 120 °C
[2] Line-to-line

Dimensions


Ø150 0 -0.1
Ø85.3 min.
Ø55 +0.03 0.0 (H7)
10
HR
Hs + 16
15 ±0.2
Hs
(Ø57)
1000 ±50
Installation clamps
8-M4 × 0.7P × 8DP (both sides)
PCD: 142
6-M5 × 0.8P × 10DP (both sides)
PCD: 66
40 max.
Motor cable: Ø10.5
Thermal cable: Ø5.5
60°
22.5°
45°