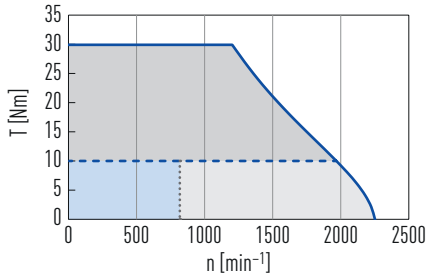
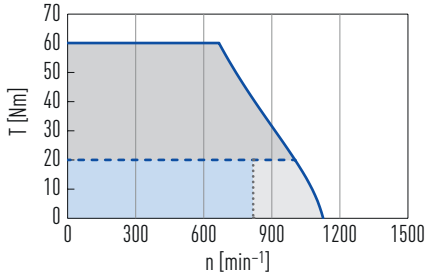
Specifications

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

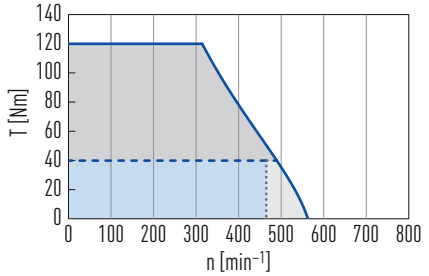
DMR32



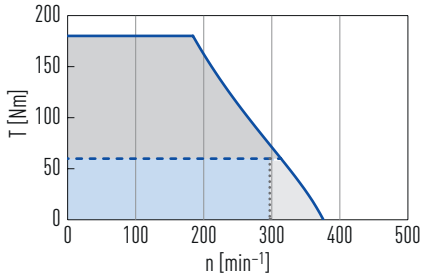
DMR34



DMR38



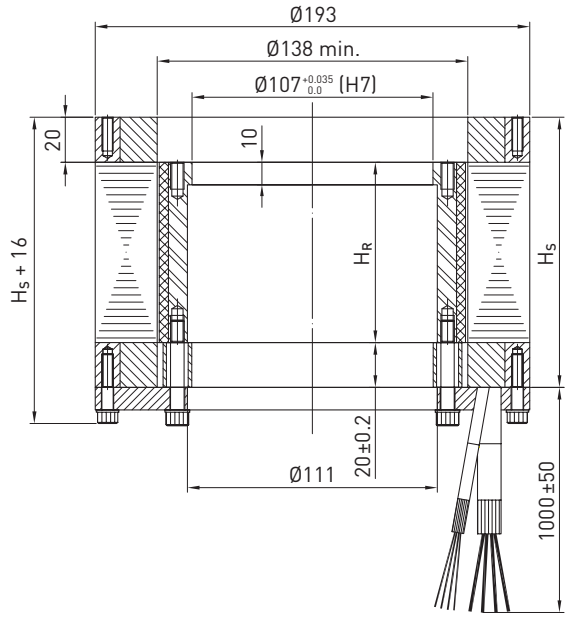
DMR3C

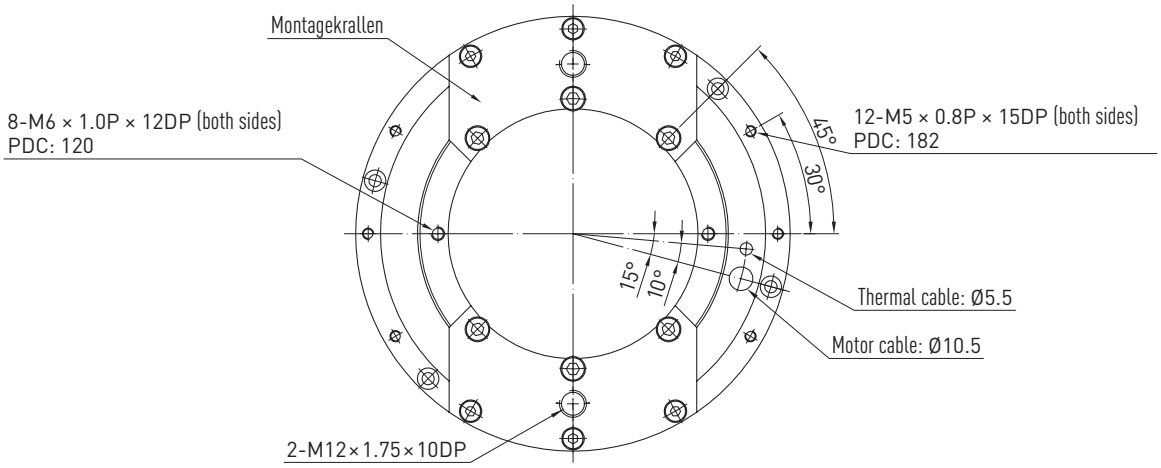


Technical data for DMR3						
	Symbol	Unit	DMR32	DMR34	DMR38	DMR3C
Torques and electrical parameters						
Peak torque (for 1 sec.)	T_p	Nm	30	60	120	180
Continuous torque [1]	T_c	Nm	10	20	40	60
Stall torque	T_s	Nm	7	14	28	42
Peak current (for 1 sec.)	I_p	A	10.2	10.2	10.2	10.2
Continuous current [1]	I_c	A	3.4	3.4	3.4	3.4
Stall current	I_s	A	2.4	2.4	2.4	2.4
Resistance [2]	R_{25}	Ω	5.0	7.5	12.0	17.1
Inductance [2]	L_{25}	mH	20.6	34.6	53.6	84.4
Motor constant	K_m	Nm/√W	1.1	1.8	2.8	3.6
Electrical time constant	K_e	ms	4.1	4.6	4.5	4.9
Torque constant	K_t	Nm/A	3	6	12	18
Back emf constant	K_u	V_{eff}/(rad/s)	1.5	3	6	9
Inertia of rotor	J	kgm^2	0.002	0.005	0.009	0.014
Thermal resistance	R_{th}	°C/W	1.1	0.73	0.46	0.32
Thermal time constant	T_{th}	s	1,980	2,020	2,130	2,170
Max. DC Bus	U_{max}	VDC	600			
Rated speed	n_N	min^{-1}	818	818	465	297
Mechanical parameters						
Number of poles	2p		22			
Thermal sensor			PTC SNM 120			
Stator height	H_S	mm	60	80	120	160
Rotor height	H_R	mm	20	40	80	120
Mass of motor	M_m	kg	5.7	8.2	13.2	18.1

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


Ø193
Ø138 min.
Ø107 +0.035 0.0 (H7)
20
10
Hs + 16
HR
Hs
20±0.2
Ø111
1000±50


Montagekrallen
8-M6 × 1.0P × 12DP (both sides)
PDC: 120
12-M5 × 0.8P × 15DP (both sides)
PDC: 182
45°
30°
15°
10°
Thermal cable: Ø5.5
Motor cable: Ø10.5
2-M12×1.75×10DP