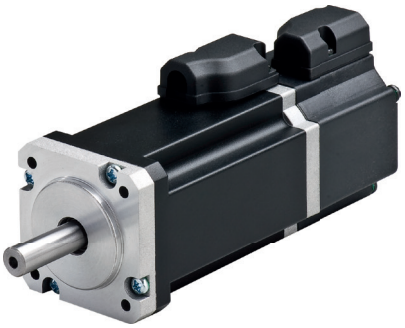
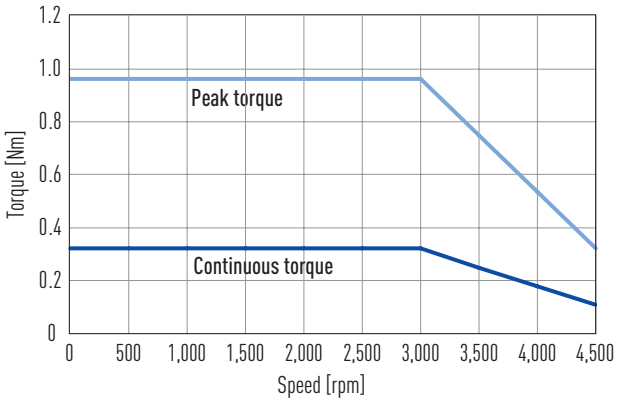
FRLS 100 W

Technical data FRLS 100 W			
Motor data	Symbol	Unit	FRLS102 _ _A4 _
Nominal voltage	V	VAC	220
Nominal power	W	W	100
Nominal torque	T_C	Nm	0.32
Nominal current	I_C	A_{eff}	0.9
Peak torque for 1 sec.	T_P	Nm	0.96
Peak current for 1 sec.	I_P	A_{eff}	2.7
Nominal speed	n_N	rpm	3,000
Maximum speed for 1 sec.	n_{max}	rpm	4,500
Torque constant	K_T	Nm/A_{eff}	0.356
Voltage constant	K_e	V_{eff}/(1,000 rpm)	21.98
Winding resistance [1]	R	Ω	8
Winding inductance [1]	L	mH	8.45
Mass inertia of rotor	J	$kgm^2 \times 10^{-4}$	0.036
Mass inertia of rotor with brake	J	$kgm^2 \times 10^{-4}$	0.038
Motor weight	M	kg	0.63
Motor weight with brake	M	kg	0.76
Motor insulation class			A
Motor brake (optional) [2]			
Braking torque (static)	T_b	Nm	0.3
Power supply	V	VDC	24 ± 10 %
Power consumption	A	A	0.3
Rated input	W	W	6.0
Response time open	t_0	ms	30.0
Response time close	t_R	ms	20.0

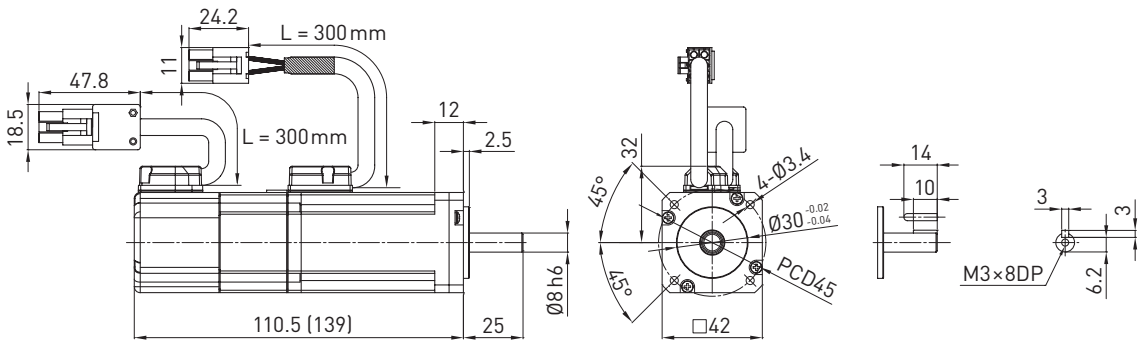
[1] Line to line
[2] The motor brakes are holding brakes only, not operating brakes



Torque-speed curve FRLS 100 W:



Dimensions FRLS 100 W:



Values in brackets apply
to model with motor brake