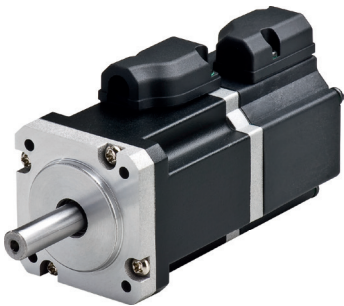


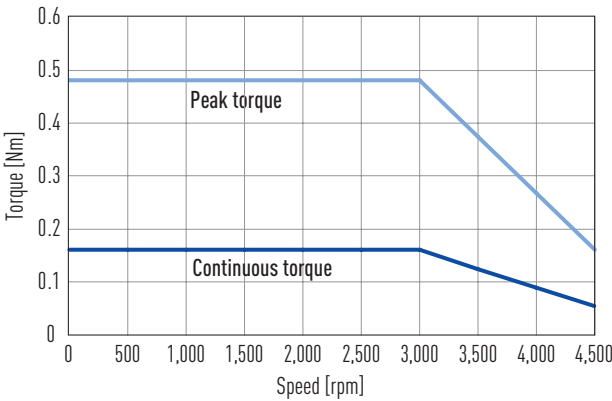
FRLS 50 W

Technical data FRLS 50 W			
Motor data	Symbol	Unit	FRLS052 _ _A4 _
Nominal voltage	V	VAC	220
Nominal power	W	W	50
Nominal torque	T _C	Nm	0.16
Nominal current	I _C	A _{eff}	0.9
Peak torque for 1 sec.	T _P	Nm	0.48
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}	0.178
Voltage constant	K _e	V _{eff} /(1,000 rpm)	10.74
Winding resistance ¹⁾	R	Ω	4.7
Winding inductance ¹⁾	L	mH	4.7
Mass inertia of rotor	J	kgm ² × 10 ⁻⁴	0.02
Mass inertia of rotor with brake	J	kgm ² × 10 ⁻⁴	0.022
Motor weight	M	kg	0.45
Motor weight with brake	M	kg	0.58
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

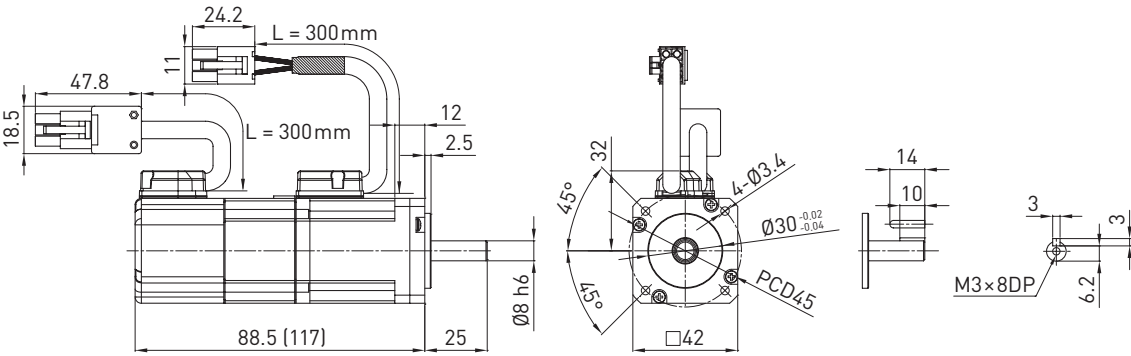
1) Line to line
2) The motor brakes are holding brakes only, not operating brakes



Torque-speed curve FRLS 50 W



Dimensions FRLS 50 W:



Values in brackets apply to model with motor brake