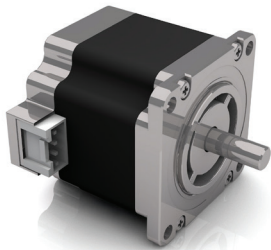


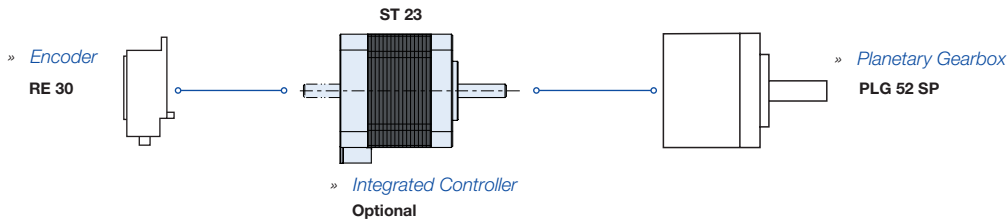
- » 57 mm square Nema 23
 - » Hi grade Neodymium magnets
 - » 1.8° step angle (+/-5%)
 - » Customized solutions available on demand
 - » Operating temperatures -20°C to +40°C
- » Sinusoidal back-EMF optimized for microstep operation and hi holding torque
 - » Insulation Class 130 (B)
 - » With external STE controller on request
 - » For stock program please go to www.dunkermotoren.com/en/configuration



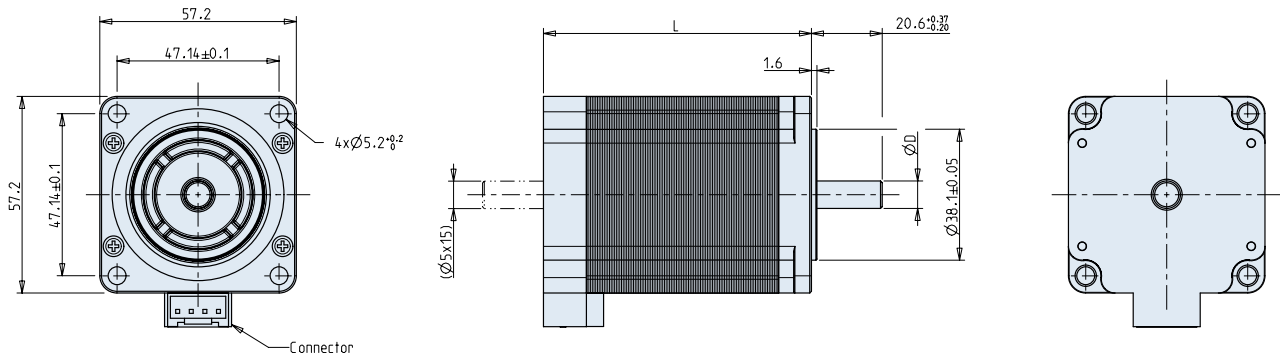
Data		ST 23x16			ST 23x21			ST 23x31			
Rated phase current	A	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	4.00
Phase resistance	Ohm	3.670	0.980	0.420	5.140	1.330	0.610	6.260	1.570	0.690	0.430
Phase inductance	mH	13.51	3.21	1.58	20.75	5.67	2.30	22.35	5.77	2.70	1.66
Holding torque Bipolar	Ncm	70.00	70.00	70.00	140.00	140.00	140.00	200.00	200.00	200.00	210.00
Detent torque	Ncm	3.00	3.00	3.00	5.00	5.00	6.00	8.00	7.00	7.00	7.00
Rotor inertia	gcm²	77.00	77.00	77.00	209.00	209.00	209.00	335.00	335.00	335.00	335.00
Max. voltage	VDC	75	75	75	75	75	75	75	75	75	75
Weight	Kg	0.460	0.460	0.460	0.700	0.700	0.700	1.050	1.050	1.05	1.05

All data measured with standard cables 300 mm at 25°C

Modular System



Dimensions in mm



- » Shaft D-cut options: 5.8x15 mm or 7.5x15mm
- » Optional Rear-Flange with centering collar 22 mm, subcircuit 32 mm M3

Motor	L	D ø
23X16	40±0.6	6.35
23X21	55±0.6	6.35
23X31	78±0.6	8

See page 96 for Connector Harness

Characteristic diagram

