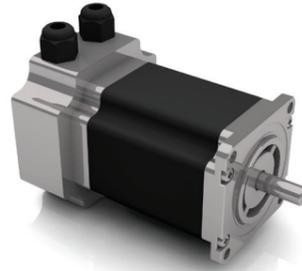


- » 2 phase Stepper Motor 1.8° step angle with integrated controller
- » 12-bit absolute magnetic encoder (single turn)
- » CANopen interface CiA 301 and CiA 402
- » Options available: EtherCAT version, Modbus RTU on RS485 version
- » Configurable resolution microstep/rev (400 to 204 800), Max. velocity 300 000 microstep/sec
- » Step accumulation with recovery (no step-loss)
- » 32 programmable cycles and 10 programmable sequences including jog (velocity), indexer (position), homing, marker (rotating table)
- » Linear, parabolic and s-curve profiles
- » Commissioning software
- » Configurable digital and analogue I/Os



IO mode

CANopen version available

RS485 version available

Speed mode

Current mode

Positioning

Service interface

Digital inputs configurable

Digital outputs

EtherCAT version available

Oscilloscope software available

Condition monitoring

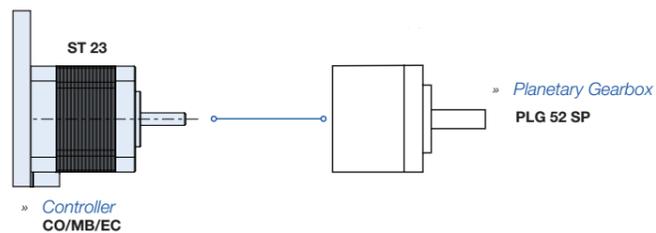
Supply voltage versions 24 - 80

Protection class (up to) IP 65

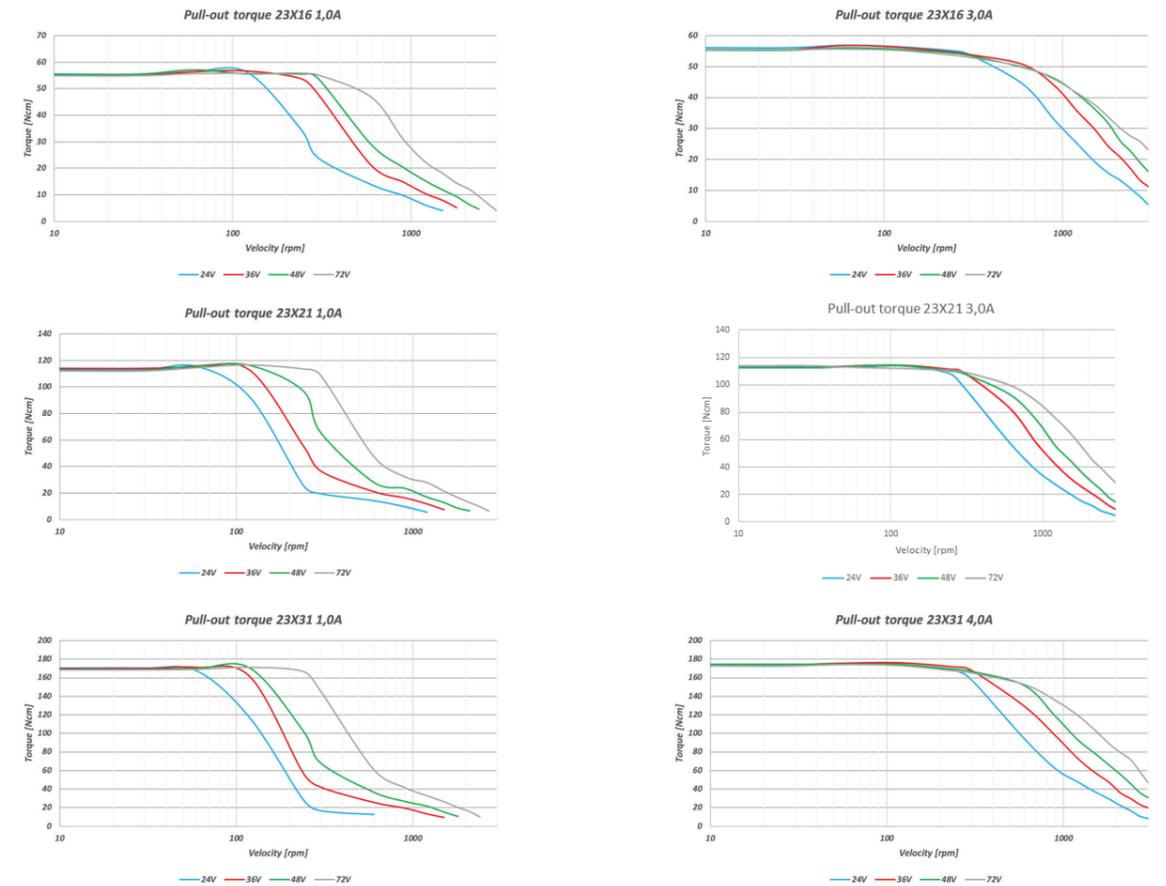
Data		ST 23x16			ST 23x21			ST 23x31			
Rated phase current	A	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	4.00
Phase resistance	Ohm	3.670	0.980	0.420	5.140	1.330	0.610	6.260	1.570	0.690	0.430
Phase inductance	mH	13.51	3.21	1.58	20.75	5.67	2.30	22.35	5.77	2.70	1.66
Holding torque Bipolar	Ncm	70.00	70.00	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	gcm ²	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	0.655	0.655	0.655	0.895	0.895	0.895	1.245	1.245	1.245	1.245

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

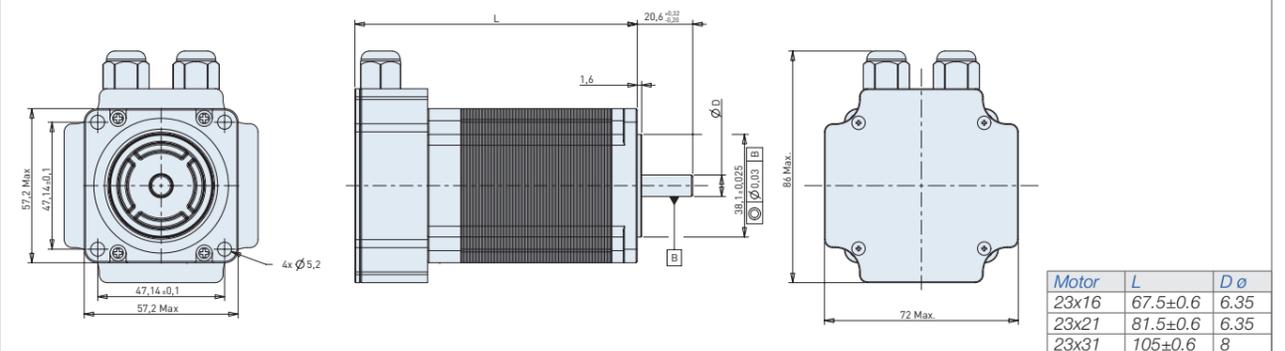
Modular System



Characteristic diagram



Dimensions in mm/ ST 23 CO/MB



Dimensions in mm/ ST 23 EC

