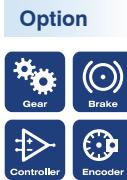
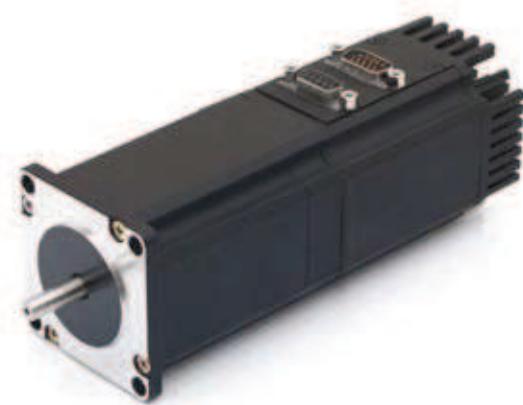


Plug & Drive® stepper motors

■ PD4-I5709 and PD4-I5918 series stepper motor with integrated controller

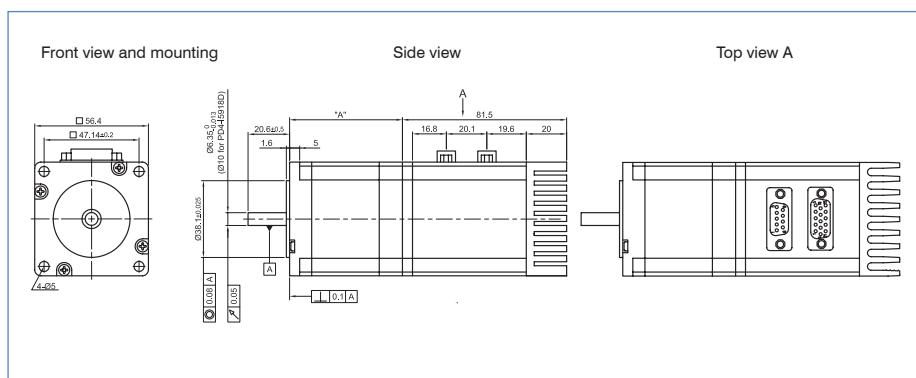


Technical data

Operating voltage:	DC 24 V to 70 V
Phase current:	Rated current 4.2A; Adjustable to max. 6.3 A/phase
Interface:	RS485, (optional CAN)
Operating mode:	Position, speed, flag position, clock direction, analog, joystick, analog position
Step resolution:	1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, adaptive (1/128)
Step frequency:	0 to 50kHz in the clock/direction mode, 0 to 25 kHz in all other modes
Inputs:	6 optocoupler inputs (24 V), or analog input
Outputs:	3 transistor outputs (open collector)
Position monitoring:	Automatic error correction up to 0.9°
Current reduction:	adjustable 0 - 100%
Protection circuit:	Oversupply, undervoltage and heatsink temperature > 80 °C
Temperature range:	0 to +40°C
Delivery condition:	D-SUB 15 for I/O and power, D-SUB 9 for RS-485

! Note: An intermediate circuit capacitor of at least 4,700 μ F (Z-K4700/50) must be provided on the supply voltage.

Outline drawing (mm)

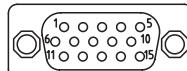


Available power sizes (others on request)

Type	Holding torque (duration) Nm	Holding torque (max.) Nm	Weight kg	"A" mm
PD4-I5709X3008-P	61	61	0.45	43.5
PD4-I5709L4008-P	140	190	1.00	77.5
PD4-I5918X3008-P	54	54	0.49	41.0
PD4-I5918M4508-P	69	105	0.71	54.0
PD4-I5918L3008-P	190	190	1.00	76.0
PD4-I5918L4508-P	125	190	1.00	76.0
PD4-I5918D4208-P	180	250	1.30	115.0

Pin configuration D-SUB 15

Pin configuration D-SUB 15

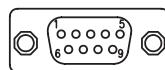


PIN	NAME
1	Input 5
2	Input 4
3	Input 3
4	Input 2
5	Input 1
6	+48 V
7	Input 6
8	Output 3
9	COM
10	GND
11	+48 V
12	N.C.
13	Output 2
14	Output 1
15	GND (OV)

PIN 6 and 11 or PIN 10 and 15 must be connected

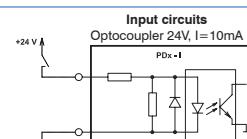
Pin configuration D-SUB-9

Pin configuration D-SUB 9

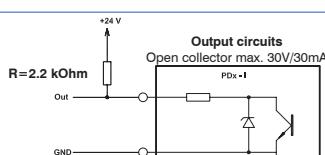


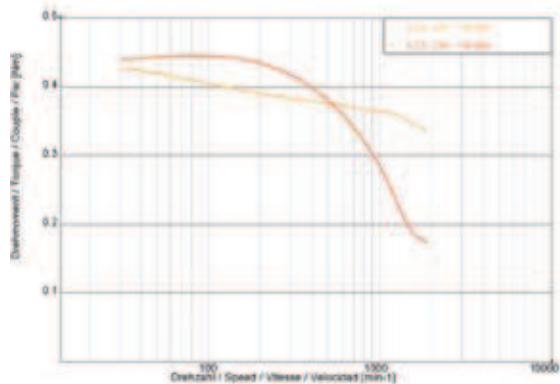
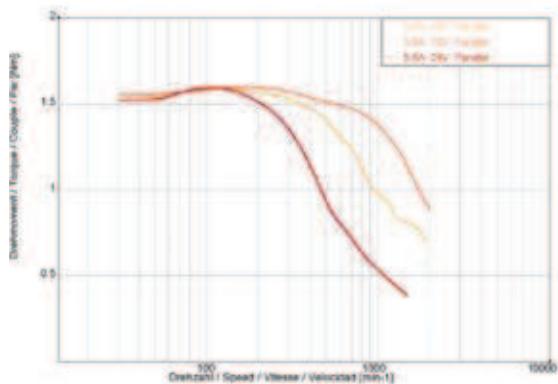
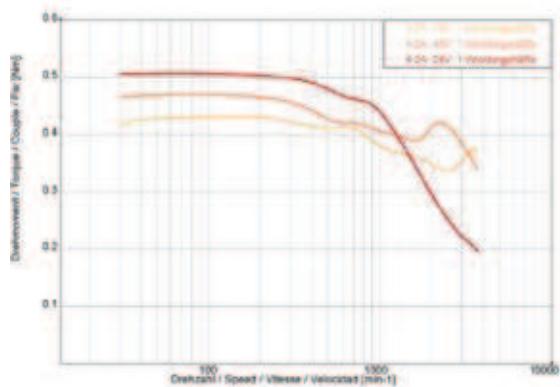
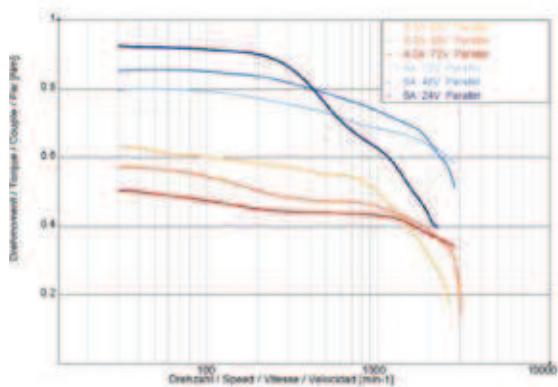
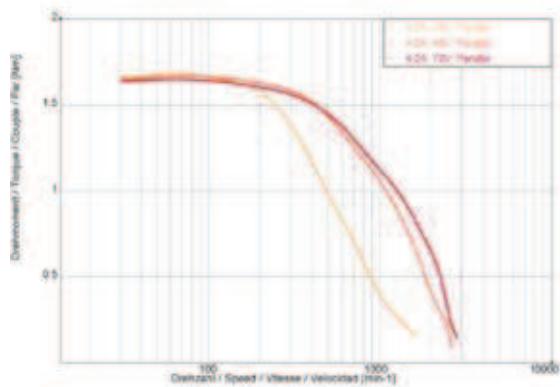
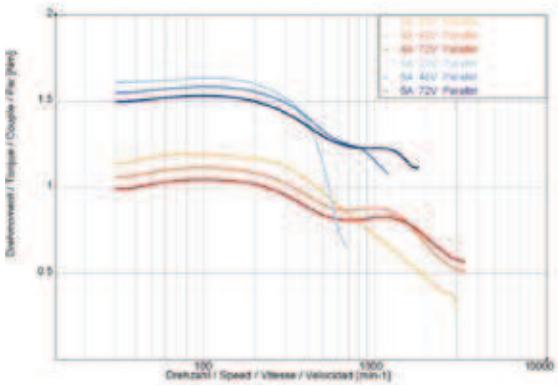
PIN	OBSERVATIONS
1	not assigned
2	RS-485 Rx+
3	+5V output
4	RS-485 Tx+
5	not assigned
6	not assigned
7	RS-485 Rx-
8	GND output (OV)
9	RS-485 Tx-

Input circuits



Output circuits



Speed-Torque curves
PD4-I5709X3008-P

PD4-I5709L4008-P

PD4-I5918X3008-P

PD4-I5918M4508-P

PD4-I5918L3008-P

PD4-I5918L4508-P

PD4-I5918D4208-P
