

# Plug & Drive® stepper motors

## PD6-I8918 series stepper motor with integrated controller

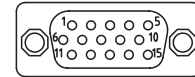


### Option



### Pin configuration D-SUB 15

#### Pin configuration D-SUB 15

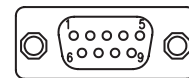


PIN	NAME
1	Input 5
2	Input 4
3	Input 3
4	Input 2
5	Input 1
6	+48 V
7	Input 6
8	Output 3
9	COM
10	GND
11	+48 V
12	N.C.
13	Output 2
14	Output 1
15	GND (OV)

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

### Pin configuration RS485

#### Pin configuration D-SUB-9



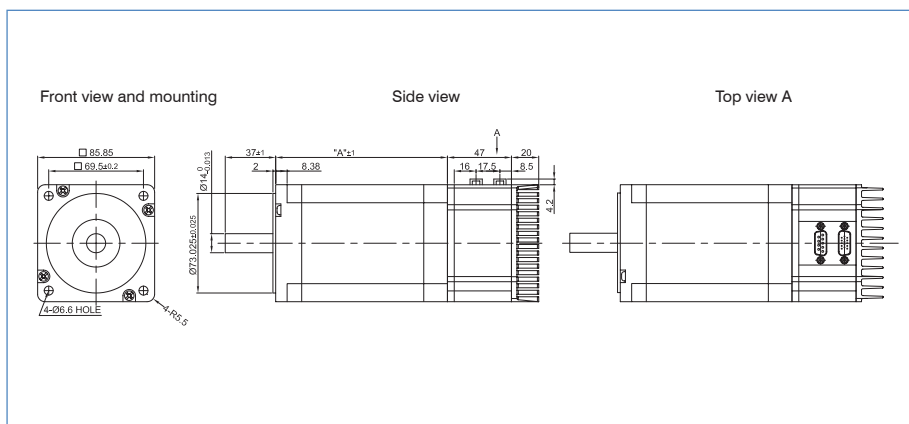
PIN	OBSERVATIONS
1	not assigned
2	RS-485 Rx+
3	+5V output
4	RS-485 Tx+
5	not assigned
6	not assigned
7	RS-485 Rx-
8	GND output (OV)
9	RS-485 Tx-

### Technical data

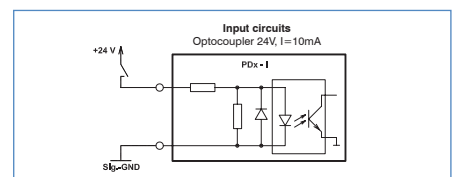
<b>Operating voltage:</b>	DC 24 V to 70 V
<b>Phase current:</b>	Rated current 6.0A; Adjustable to max. 9 A/phase
<b>Interface:</b>	RS485, (optional CAN)
<b>Operating mode:</b>	Position, speed, flag position, clock direction, analog, joystick
<b>Step resolution:</b>	1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, adaptive (1/128)
<b>Step frequency:</b>	0 to 50kHz in the clock/direction mode, 0 to 25 kHz in all other modes
<b>Inputs:</b>	6 optocoupler inputs (24 V), or analog input
<b>Outputs:</b>	3 transistor outputs (open collector)
<b>Position monitoring:</b>	Automatic error correction up to 0.9°
<b>Current reduction:</b>	adjustable 0 - 100%
<b>Protection circuit:</b>	Overvoltage, undervoltage and heatsink temperature > 80 °C
<b>Temperature range:</b>	0 to + 40°C
<b>Delivery condition:</b>	D-SUB 15 for I/O and power, D-SUB 9 for RS-485

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

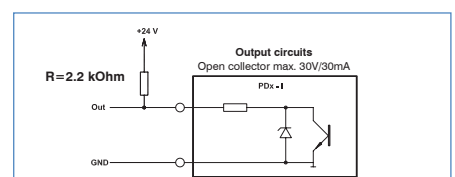
### Outline drawing (mm)



### Input circuits



### Output circuits

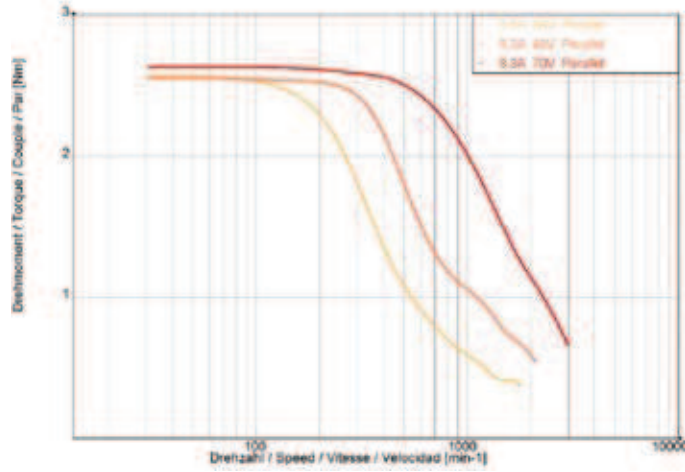


### Available power sizes (others on request)

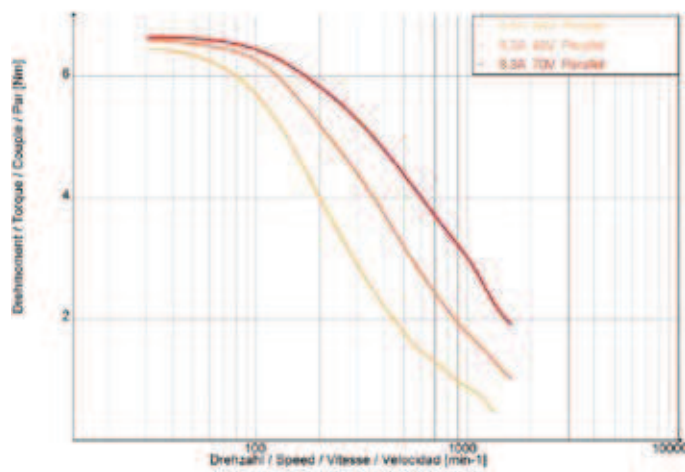
Type	Holding torque (duration) Ncm	Holding torque (max.) Ncm	Weight kg	"A" mm
PD6-I8918S4508-P	320	320	1.70	65
PD6-I8918M6708-P	390	590	2.70	96
PD6-I8918L6708-P	616	930	3.95	126

Speed-Torque curves

PD6-I8918S4508-P



PD6-I8918M6708-P



PD6-I8918L6708-P

