

# Series PD3,5-T (3,5A) Stepper Motor with integrated with clock input Microstep - Constant Current Driver



**Technical Data:**

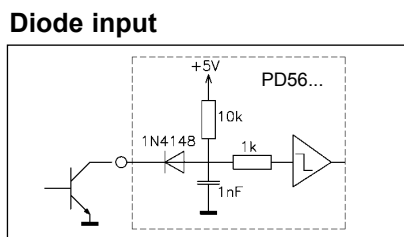
<b>Operating Voltage:</b>	DC 21 to 37 V
<b>max. Phase Current:</b>	3,5 A / phase
<b>Current setting:</b>	via potentiometer
<b>Resolution:</b>	200, 400, 1/4 = 800 (1600) steps/rev.
<b>Step mode setting:</b>	via BCD-switch
<b>Step frequency:</b>	0 to 50 kHz
<b>Current down:</b>	automatically to approx. 30%
<b>Input signals:</b>	0V active (diode input)
<b>Protective circuit:</b>	overvoltage
<b>Temperature range:</b>	0 to +40 °C
<b>Connection type:</b>	via 5-pin circular connectors
<b>State of delivery:</b>	1/2 step

**Attention:** A charging capacitor of at least 4.700 µF has to be provided in the supply voltage so that the permissible voltage is not exceeded during the braking process.

**PIN Assignment**

1 - brown = DIR (direction)  
 2 - white = Signal GND  
 3 - blue = Power GND  
 4 - black = +21 to +37 V  
 5 - grey = CLK (Clock)

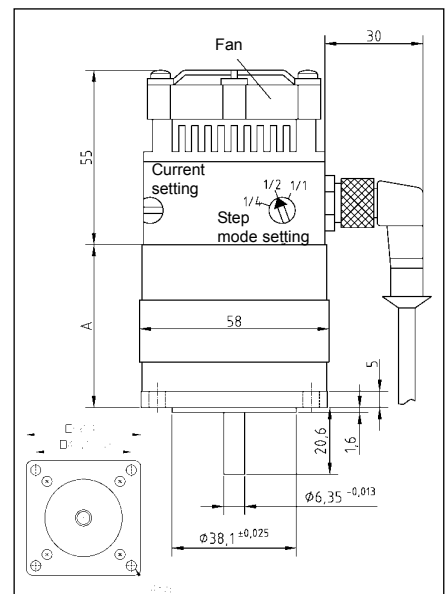
**Input Circuit**



**Function table**

Enable	CW	CLK	Rotor motion (1 step)
H	L	H	stop
H	L	H	→
H	L	H	←
H	L	L	↺
H	L	L	↻
L	X	X	Motor without current

**Abmessungen**

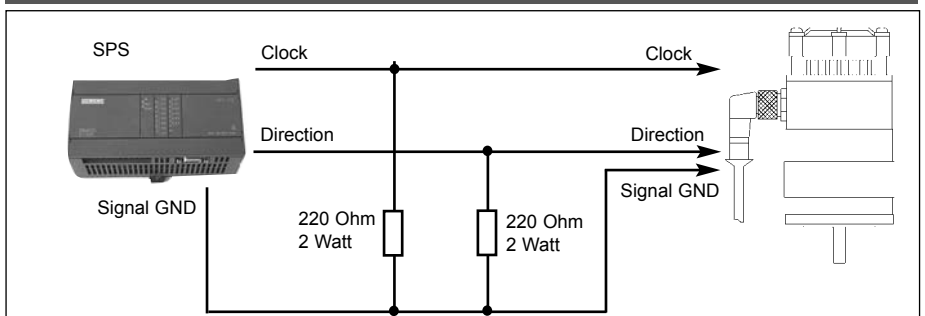


**Ordering code:**  
 PD3,5-T5618S3704-D

**Required Accessories**

5-pin connecting cable  
 or cable loom KS-PD56-2 (5)  
 (see "Accessories", page K6)

**Circuit suggestion (SPS connection)**



Type	Holding Torque Ncm	Current per Phase	Winding	Operating Voltage	Step resolution	Weight kg	"A" mm	Option
PD3,5-T5618S3704-D	60	3.5A	parallel	21-37 V DC	200; 400; 800	0.7	50.5	PLE..., E..., L..., B2
PD3,5-T5618C4004-D	120	3.5A	parallel	21-37 V DC	200; 400; 800	1.6	102	PLE..., E..., L..., B2
PD3,5-T5609C4204-D	100	3.5A	parallel	21-37 V DC	400; 800; 1600	1.6	102	PLE..., E..., L..., B2