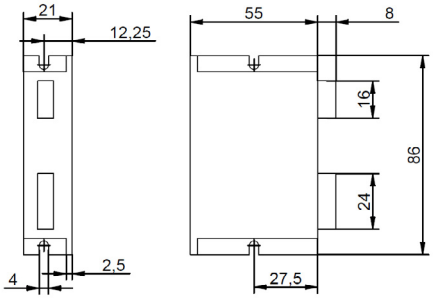
TRANSMOTEC

STEPPING MOTOR DRIVERS | 2-6 AMP.

EU: +46 8 792 35 30
US: +1-339-234-9200
info@transmotec.com

DSH-200

DRAWING
(mm)



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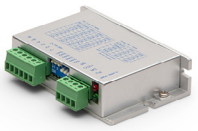


MODEL NO. DESIGNATION

DSH	-	CURRENT

Example: DSH-200

OPTIONS POWER SUPPLIES LRS SERIES

GENERAL

Model	Current	Weight	IP	Temperature range	Accessories
DSH-200	2.2 A	0.10 Kg	IP20	0 - 50 °C	Power supplies series Transmotec LRS series

FUNCTIONS

ALARM | PWR	LED indicators	Green LED on | Red LED on	Power on | Fault detection
PU	Pulse signal	Driver input clock pulses (LO=0V (GND), HI=5V) max pulse frequency 200 kHz	
DR	Motor direction signal	+5V CW rotational direction	0V (GND) CCW rotational direction
+5V	Control signal positive power		
MF	Motor enable signal	+5V to enable rotation	0V (GND) to disable rotation
A- | A+ | B- | B+	Motor phases connection		
V+ | V-	Power supply 18-36 VDC | GND		

CURRENT LIMIT SWITCH SETTINGS

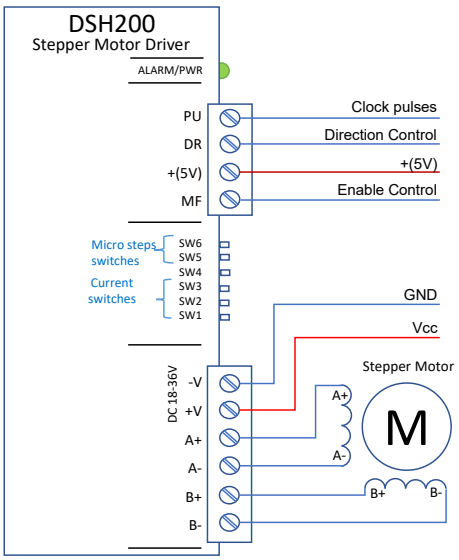
Current RMS A	0.2	0.4	0.5	0.7	0.9	1.1	1.4	1.6
Current peak A	0.3	0.5	0.7	1.0	1.3	1.6	1.9	2.2
SW1	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF

MICRO-STEP SWITCH SETTINGS

Micro-step/step	1	8	16	32
PUL/REV	200	1600	3200	6400
SW5	ON	OFF	ON	OFF
SW6	ON	ON	OFF	OFF

FUNCTION SWITCH SETTINGS

		ON-SETTING	OFF-SETTING
SW4	Full and half current	Full current always	Half current when pulse time ≥ 200 ms



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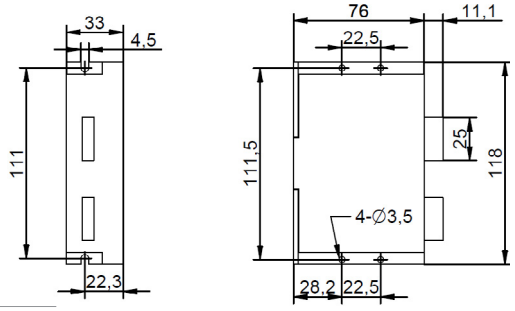
DSH-300

DRAWING
(mm)



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MODEL NO. DESIGNATION

DSH	-	CURRENT

Example: DSH-300

OPTIONS POWER SUPPLIES LRS SERIES

GENERAL

Model	Current	Weight	IP	Temperature range	Accessories
DSH-300	3 A	0.25 Kg	IP20	0 - 50 °C	Power supplies series Transmotec LRS series

FUNCTIONS

ALARM | PWR	LED indicators	Green LED on Green LED flashes	Power on Fault detection
DIR-	Motor direction signal	+5 V CW rotational direction	0 V CCW rotational direction
DIR+	Motor direction Vcc	+5 VDC to enable direction control	-
PUL-	Pulse signal	Driver input clock pulses (LO=0V, HI=5V) max pulse frequency 200 kHz	
PUL+	Pulse Vcc	+5 VDC to enable clock pulses	-
MF-	Motor enable signal	+5 V to enable rotation	0 V to disable rotation
MF+	Motor enable Vcc	+5 VDC to enable the enable operation	-
A- | A+ | B- | B+	Motor phases connection		
V+ | V-	Power supply 20-50 VDC | GND		

CURRENT LIMIT SWITCH SETTINGS

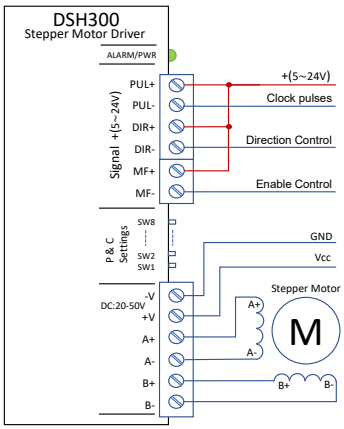
Current RMS A	0.7	1.0	1.4	1.7	2 .0	2.4	2.7	3.0
Current peak A	1.0	1.5	1.9	2. 4	2. 8	3. 3	3. 8	4. 2
SW1	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF

MICRO-STEP SWITCH SETTINGS

Micro-step/step	2	4	8	16	32	64	128	5	10	20	25	40	50	100	200
PUL/REV	400	800	1.6K	3.2K	6.4K	12.8K	25.6K	1K	2K	4K	5K	8K	10K	20K	40K
SW5	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW6	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW7	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW8	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FUNCTION SWITCH SETTINGS

		ON-SETTING	OFF-SETTING
SW4	Full and half current	Full current always	Half current when pulse time ≥ 200 ms



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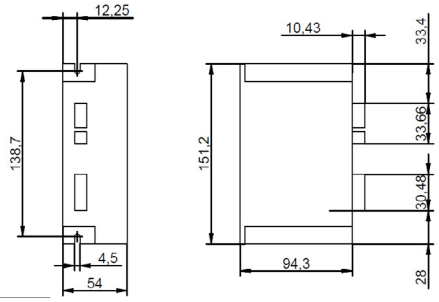
DSH-600

DRAWING
(mm)



PHOTO

MODEL NO. DESIGNATION

DSH	-	CURRENT

Example: DSH-600

OPTIONS POWER SUPPLIES LRS SERIES

GENERAL

Model	Current	Weight	IP	Temperature range	Accessories
DSH-600	6 A	0.60 Kg	IP20	0 - 50 °C	Power supplies series Transmotec LRS series

FUNCTIONS

ALARM | PWR	LED indicators	Green LED on	Motor disabled
	LED indicators	Green LED flashes	Motor enabled
	LED indicators	Red LED 2 flashes / 3 seconds	Under voltage
	LED indicators	Red LED 3 flashes / 3 seconds	Over voltage
	LED indicators	Red LED 4 flashes / 3 seconds	Over current
DIR-	Motor direction signal	+5 V CW rotational direction	0 V CCW rotational direction
DIR+	Motor direction Vcc	+5 VDC to enable direction control	-
PUL-	Pulse signal	Driver input clock pulses max pulse frequency 200 kHz	
PUL+	Pulse Vcc	+5 VDC to enable clock pulses	-
MF-	Motor enable signal	+5 V to enable rotation	0 V to disable rotation
MF+	Motor enable Vcc	+5 VDC to enable the enable operation	-
A- | A+ | B- | B+	Motor phases connection		
DC | AC	Power supply 24-110 VDC polarity any | 18-80 VAC		

CURRENT A LIMIT SWITCH SETTINGS

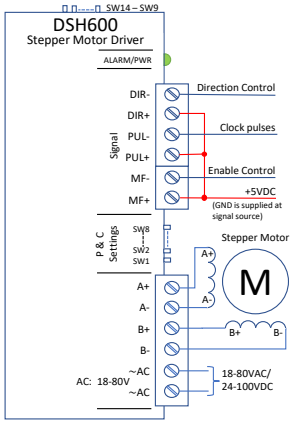
RMS	2.00	2.57	3.14	3.71	4.28	4.86	5.43	6.00
Peak	2.40	3.08	3.77	4.45	5.14	5.83	6.52	7.20
SW1	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF

MICRO-STEP/STEP | PUL/REV | SWITCH SETTINGS

M-S/S	2	4	8	16	32	64	128	256	5	10	20	25	40	50	100	200
P/R	400	800	1.6K	3.2K	6.4K	12.8K	25.6K	51.2K	1K	2K	4K	5K	8K	10K	20K	40K
SW5	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW6	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW7	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW8	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FUNCTION SWITCH SETTINGS

		ON-SETTING	OFF-SETTING
SW4	Full and half current	Full current always	Half current when pulse time ≥ 200 ms
SW9	Pulse Smoothing	Motor accelerate and decelerate smoothly	Regular acceleration and deceleration
SW10	N/A	N/A	N/A
SW11	Pulse filter	Enabled low pass filter ≤ 400 Hz	Enabled low pass filter ≤ 100 Hz
SW12	N/A	N/A	N/A
SW13	Pulse mode not supported	Always off	Always off
SW14	Self-test	Connect only driver and power to motor. Motor should run by internal puses at 5 kHz	Normal connection



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