Drive

For Mini Linear Units MGBS & MGTB and MCE & MSCE Mini Electric Cylinders & Sliders.

See documentation below for more information.

Dimensions in mm.

Duty Cycle: 100 %



Every care has been taken to ensure the accuracy of the information in this document, but we take no liability for any errors or omissions. We reserve the right to make changes without prior notice.



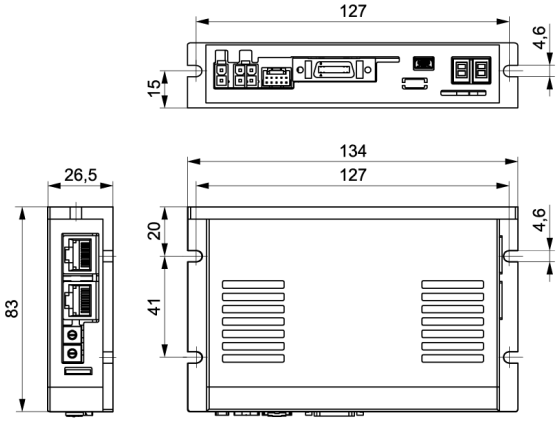




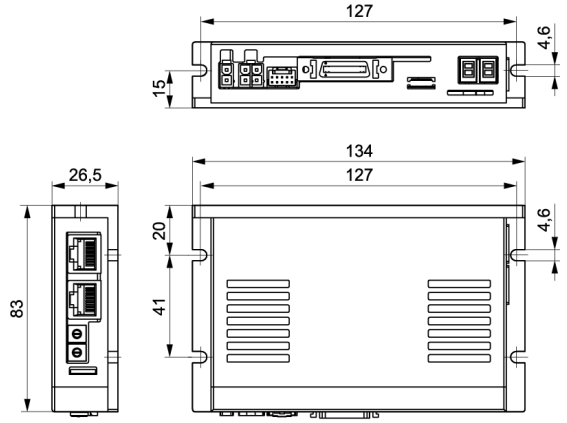
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General Data

Stepper drive EtherCAT protocol

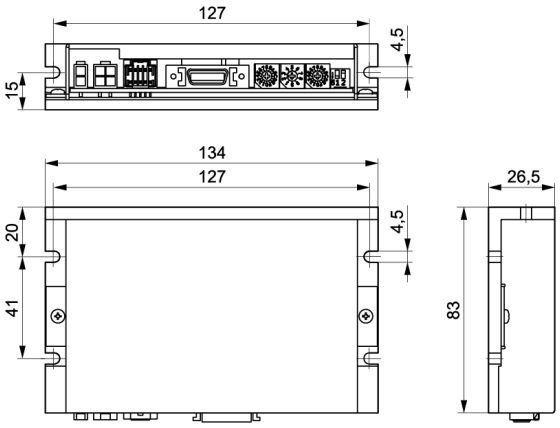


Stepper drive Ethernet based communication

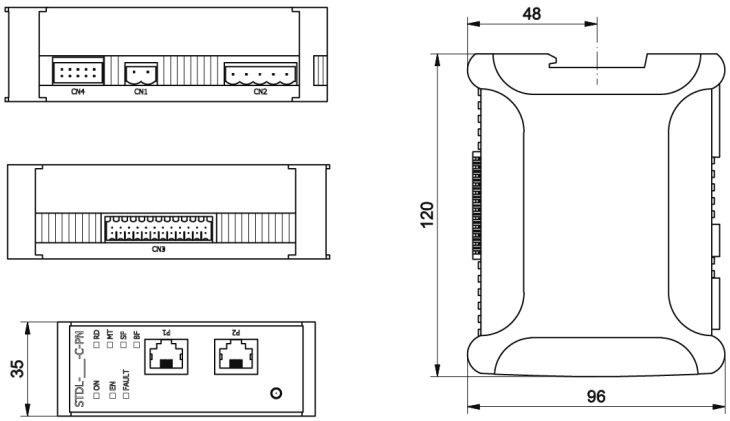


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Stepper drive Pulse-direction control



Stepper drive Profinet



Designation	Compatible with	Operating Voltage (V DC)	Protocol/Control	Ambient Temperature (°C)	Ambient Humidity
STDF-28-A-EC	STMN-28-L-…	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-28-A-EN	STMN-28-L-…	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-28-A-PD	STMN-28-L-…	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDF-42-A-EC	STMN-42-L-…	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-42-A-EN	STMN-42-L-…	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-42-A-PD	STMN-42-L-…	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDF-56-A-EC	STMN-56-L-…	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-56-A-EN	STMN-56-L-…	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-56-A-PD	STMN-56-L-…	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDL-040-C-PN	STMN-...	20–50	Profinet	0–40	10–90 %

Designation	Current Consumption (mA)	Rotational Speed (rpm)	Supported Resolution (ppr)	Input Signals	Output Signals	Vibration Resistance (G)
STDF-28-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT–, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5
STDF-28-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600,	3 dedicated inputs (LIMIT+, LIMIT–,	1 dedicated output (Compare out) ; 9	0.5

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Designation	Current Consumption (mA)	Rotational Speed (rpm)	Supported Resolution (ppr)	Input Signals	Output Signals	Vibration Resistance (G)
			5000, 6400, 7200, 10000	ORIGIN) ; 9 Programmable inputs (Photocoupler)	programmable outputs (Photocoupler) ; Brake	
STDF-28-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDF-42-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT–, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5
STDF-42-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT–, ORIGIN) ; 9 Programmable inputs (Photocoupler)	1 dedicated output (Compare out) ; 9 programmable outputs (Photocoupler) ; Brake	0.5
STDF-42-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDF-56-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT–, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5
STDF-56-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT–, ORIGIN) ; 9 Programmable inputs (Photocoupler)	1 dedicated output (Compare out) ; 9 programmable outputs (Photocoupler) ; Brake	0.5
STDF-56-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDL-040-C-PN	Max. 160	Depending on stepper motor	-	8 Digital inputs : 1 Analog input ; 1 Encoder input A, B, I	3 Digital outputs	<1

Designation	Motor Current (A)
STDF-28-A-EC	-
STDF-28-A-EN	-
STDF-28-A-PD	-
STDF-42-A-EC	-
STDF-42-A-EN	-
STDF-42-A-PD	-
STDF-56-A-EC	-
STDF-56-A-EN	-
STDF-56-A-PD	-
STDL-040-C-PN	1.0–4.5

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