Technical information

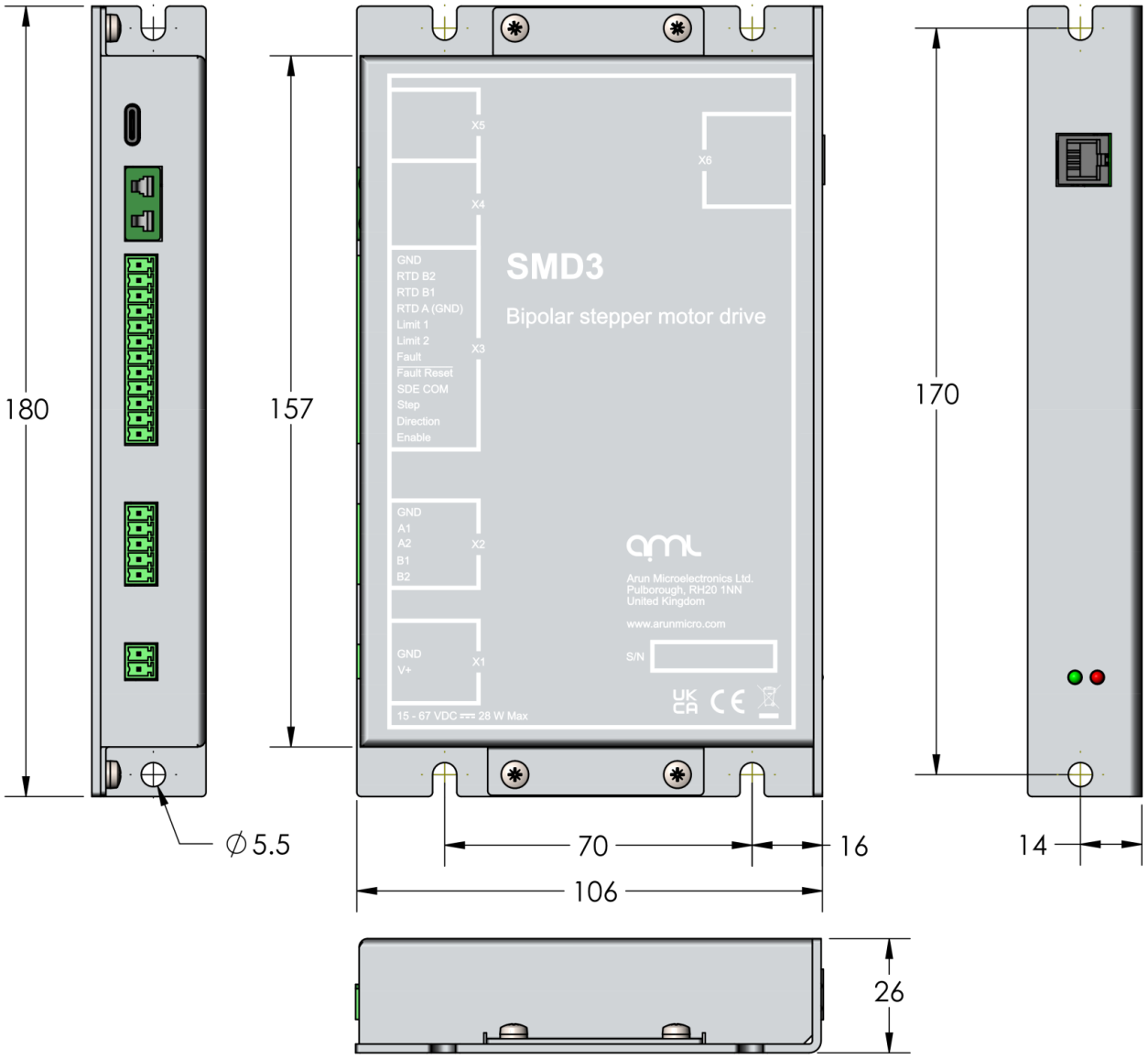
General

General	
Interface	USB Type-C (appears as virtual COM port on PC
Dimensions	180 mm x 105 mm x 26 mm
Weight	0.6 kg
Protection class	IP 20
Temperatures	Operation 10 °C to 60 °C, Storage -10 °C to 85 °C
Power supply	External 15 Vdc to 67 Vdc power supply required
Power consumption	28 W maximum
Motor	
Suitable types	2 phase bipolar stepper motor with 4 leads
Phase current	Up to 1 A RMS, adjustable in 30 mA steps
Source voltage	As supply voltage, 67 Vdc maximum
Resolution	8, 16, 32, 64, 128, 256 micro-stepping
Protection	Short to ground and phase to phase
Operating modes	
• Remote, via USB • SDE interface using an external motion controller • Trigger movement vis SDE interface • Joystick • Bake • Homing (drive to limit switches)	
Limits	
Quantity	2
Compatible switch types	Mechanical NO or NC (polarity selectable)

General	
Protection	Withstands continuous short to 12 V maximum
Miscellaneous	Source current < 1 mA
Motor temperature measurement	
Type	Selectable PT100 RTD or K-Type thermocouple
Range	-200 °C to 240 °C
Accuracy	±5 %
Fault detection	RTD: Open and short-circuit Thermocouple: Open circuit only
SDE (step, direction, enable) interface	
Type	Optocoupled, bi-directional LED
Levels	3.3 Vdc to 5 Vdc maximum
Maximum frequency	2 MHz at 50 % duty
Joystick	
Connection	Front panel mounted 4P4C jack
Input type	Active low, short to ground to activate function
Miscellaneous	Open circuit voltage 3.3 V, source current < 3.5 mA
Software	
Compatibility	Windows 7 or later

Mechanical

All dimensions are in millimetres.



Scope of delivery

Qty.	Item
1	SMD3
1	USB Type-A to USB Type-C lead
1	Pluggable terminal block, 2-way, 3.5 mm pitch
1	Pluggable terminal block, 5-way, 3.5 mm pitch
1	Pluggable terminal block, 12-way, 3.5 mm pitch
1	Type K Thermocouple Free Plug, Miniature

Accessories

The following accessory items are available from AML.

Order Code	Item
SMD3JOY	Joystick
SPSU48V	48 Vdc, 60 W Power Supply
MLF18SMD3	Lead, Feedthrough to SMD3