

Technical specifications

| Article No. | 6SL3055-0AA00-5JA3 | 6SL3055-0AA00-5KA3 |
|---|--|---|
| Product designation | SME120 Sensor Module External | SME125 Sensor Module External |
| Encoder | <ul style="list-style-type: none"> Incremental encoder sin/cos 1 V_{pp} with 5 V voltage supply | <ul style="list-style-type: none"> Absolute encoder EnDat with 5 V voltage supply Absolute encoders SSI with incremental signals sin/cos 1 V_{pp} with 5 V voltage supply |
| Signal subdivision (interpolation) | ≤ 16384 times (14 bit) | ≤ 16384 times (14 bit) |
| Max. encoder frequency that can be evaluated | kHz ≤ 500 | ≤ 500 |
| SSI/EnDat 2.1 baud rate | kHz – | 100 |
| Measuring system interface | 12-pin M23 circular connector | 17-pin M23 circular connector |
| Temperature sensor input | 6-pin M17 circular connector | 6-pin M17 circular connector |
| Hall-effect sensor input | 9-pin M23 circular connector | – |
| Output | IP67 DRIVE-CLiQ connector | IP67 DRIVE-CLiQ connector |
| Power requirement, max. at 24 V DC, without considering encoder | A 0.16 | 0.16 |
| <ul style="list-style-type: none"> Load rating of encoder power supply, for measuring system (at 5 V DC) and, where applicable, including Hall-effect sensor box | A 0.35 | 0.35 |
| <ul style="list-style-type: none"> Conductor cross-section Fuse protection | According to connector contacts Via DRIVE-CLiQ power supply source | According to connector contacts Via DRIVE-CLiQ power supply source |
| Power loss, max. | W 4.5 | 4.5 |
| PE connection | M4 screw/1.8 Nm | M4 screw/1.8 Nm |
| Cable length, max. | | |
| <ul style="list-style-type: none"> To measuring system¹⁾ / temperature sensor | m (ft) 3 (9.84) | 3 (9.84) |
| <ul style="list-style-type: none"> To automatic speed control | m (ft) 100 (328) | 100 (328) |
| Degree of protection | IP67 | IP67 |
| Dimensions | | |
| <ul style="list-style-type: none"> Width | mm (in) 117.6 (4.63) | 117.6 (4.63) |
| <ul style="list-style-type: none"> Height | mm (in) 44 (1.73) | 44 (1.73) |
| <ul style="list-style-type: none"> Depth | mm (in) 127 (5) | 127 (5) |
| Net weight | kg (lb) 0.7 (1.54) | 0.7 (1.54) |
| Certificate of suitability | cULus | cULus |

Selection and ordering data

| Description | Article No. | Description | Article No. |
|---|---------------------------|---|----------------------|
| SME120 Sensor Module External For incremental measuring systems Without DRIVE-CLiQ cable | 6SL3055-0AA00-5JA3 | Accessories | |
| SME125 Sensor Module External For absolute measuring systems Without DRIVE-CLiQ cable | 6SL3055-0AA00-5KA3 | Connector for temperature sensor input (connector kits, 6+1-pole) | 6FX2003-0SU07 |
| | | Connector for Hall-effect sensor input (connector kits, 9-pole) | 6FX2003-0SU01 |
| | | Connector for SME120 encoder system interface (connector kits, 12-pole) | 6FX2003-0SA12 |
| | | Connector for SME125 encoder system interface (connector kits, 17-pole) | 6FX2003-0SA17 |

¹⁾ The maximum cable length for the encoder system interface depends on the current consumption of the encoder system and the cross-section of the wires in the cable. However, the maximum length is 10 m (32.8 ft) (for further details see Manual SINAMICS S120 Control Units and Supplementary System Components).