

Article No. : 6SL3521-1XK07-5AA0

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :



Figure similar

| Rated data                                                                                                           |                           |
|----------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Input</b>                                                                                                         |                           |
| Number of phases                                                                                                     | 3 AC                      |
| Line voltage                                                                                                         | 380 ... 480 V +10 % -10 % |
| Line frequency                                                                                                       | 45 ... 66 Hz              |
| Rated current                                                                                                        | 17.11 A                   |
| <b>Output</b>                                                                                                        |                           |
| Number of phases                                                                                                     | 3 AC                      |
| Rated voltage                                                                                                        | 400 V                     |
| Rated power IEC 400V (HO)                                                                                            | 7.50 kW                   |
| Rated power NEC 480V (HO)                                                                                            | 10.00 hp                  |
| Rated current (HO)                                                                                                   | 19.00 A                   |
| Max. output current                                                                                                  | 38.00 A                   |
| Pulse frequency                                                                                                      | 4 kHz                     |
| Output frequency for vector control                                                                                  | 0 ... 240 Hz              |
| Output frequency for V/f control                                                                                     | 0 ... 550 Hz              |
| <b>Overload capability</b>                                                                                           |                           |
| High Overload (HO)<br><br>200% × base load current IH for 3 s, followed by 150% for 57 s within a cycle time of 300s |                           |
| Inputs / outputs                                                                                                     |                           |
| <b>Standard digital inputs</b>                                                                                       |                           |
| Number <sup>1)</sup>                                                                                                 | 4                         |
| Switching level: 0 → 1                                                                                               | 11 V                      |
| Switching level: 1 → 0                                                                                               | 5 V                       |
| Max. inrush current                                                                                                  | 15 mA                     |
| <b>Fail-safe digital inputs</b>                                                                                      |                           |
| Number                                                                                                               | 1                         |
| <b>Digital inputs / outputs parameterizable</b>                                                                      |                           |
| Number                                                                                                               | 2                         |
| <b>PTC/ KTY interface</b>                                                                                            |                           |
| 1 motor temperature sensor input, possible sensor PTC, KTY, PT1000, thermo click, accuracy ±5 °C                     |                           |

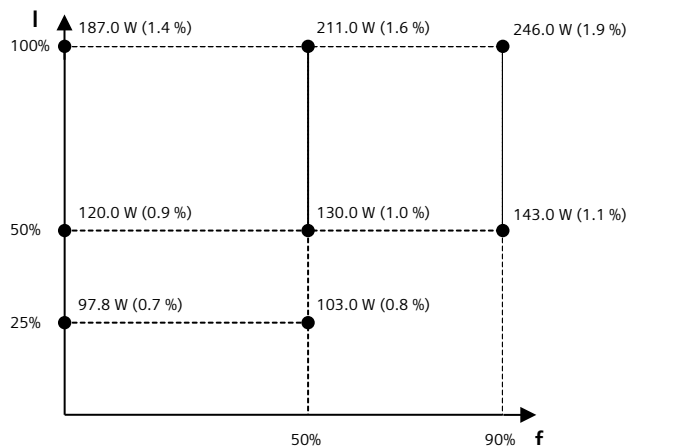
| General tech. specifications                                                   |                                                                |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|
| Power factor λ                                                                 | 0.00 ... 0.89                                                  |
| Offset factor cos φ                                                            | 0.99                                                           |
| Efficiency η                                                                   | 0.98                                                           |
| Power loss                                                                     | 0.246 kW                                                       |
| Filter class (integrated)                                                      | RFI suppression filter for Category C2                         |
| Brake voltage                                                                  | 400V AC                                                        |
| Integrated braking resistor (continuous braking power P_DB / peak power P_max) | 20W / 200W                                                     |
| Ambient conditions                                                             |                                                                |
| Cooling                                                                        | Air cooled by integrated fan                                   |
| Installation altitude                                                          | 1,000 m (3,280.84 ft)                                          |
| <b>Ambient temperature</b>                                                     |                                                                |
| Operation                                                                      | -30 ... 55 °C (-22 ... 131 °F)                                 |
| Transport                                                                      | -40 ... 70 °C (-40 ... 158 °F)                                 |
| Storage                                                                        | -40 ... 70 °C (-40 ... 158 °F)                                 |
| <b>Relative humidity</b>                                                       |                                                                |
| Max. operation                                                                 | 95 % At 40 °C (104 °F), condensation and icing not permissible |
| Mechanical data                                                                |                                                                |
| Degree of protection                                                           | IP65/66 / UL type 4X                                           |
| Frame size                                                                     | F5C                                                            |
| Net weight                                                                     | 8.81 kg (19.38 lb)                                             |
| <b>Dimensions</b>                                                              |                                                                |
| Width                                                                          | 425 mm (16.73 in)                                              |
| Height                                                                         | 240 mm (9.45 in)                                               |
| Depth                                                                          | 169 mm (6.65 in)                                               |
| Closed-loop control techniques                                                 |                                                                |
| V/f linear / square-law / parameterizable                                      | Yes                                                            |
| V/f with flux current control (FCC)                                            | Yes                                                            |
| V/f ECO linear / square-law                                                    | Yes                                                            |
| Sensorless vector control                                                      | Yes                                                            |
| Vector control, with sensor                                                    | No                                                             |
| Encoderless torque control                                                     | Yes                                                            |
| Torque control, with encoder                                                   | No                                                             |
| Communication                                                                  |                                                                |
| Communication                                                                  | AS-Interface                                                   |
| Version                                                                        | M12                                                            |
| Control option                                                                 |                                                                |
| Control option                                                                 | Repair switch                                                  |

Data sheet for SINAMICS G115D

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| Connections             |                               |
|-------------------------|-------------------------------|
| Connection type         |                               |
| Version                 | Connector without daisy chain |
| 3AC 400V supply         |                               |
| Version                 | 1x Q4/2                       |
| 24 V DC power supply    |                               |
| Variant                 | integrated                    |
| Version                 | integrated                    |
| Digital I/O             |                               |
| Version                 | M12                           |
| Motor                   |                               |
| Version                 | Q8/0                          |
| External brake resistor |                               |
| Version                 | Cable gland (Standard)        |
| PE connection           |                               |
| Version                 | On housing with M5 screw      |
| Max. motor cable length |                               |
| Shielded                | 15 m (49.21 ft)               |

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 31.44 % |



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

\*calculated values

| Standards                 |                                                            |
|---------------------------|------------------------------------------------------------|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH       |
| CE marking                | EMC Directive 2014/30/EC, Low-Voltage Directive 2014/35/EC |

<sup>1)</sup>4 inputs PNP, not isolated, additional 2x switchable DI/DO