

Article No. : 6SL3521-3XK04-0AA0

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                       | 8.95 A                    |
| <b>Output</b>                       |                           |
| Number of phases                    | 3 AC                      |
| Rated voltage                       | 400 V                     |
| Rated power IEC 400V (HO)           | 4.00 kW                   |
| Rated power NEC 480V (HO)           | 5.40 hp                   |
| Rated current (HO)                  | 10.20 A                   |
| Max. output current                 | 20.40 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)                                                                         |  |
| 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                                                                   | 0.97                                   |
| Power loss                                                                     | 0.173 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) | 10W / 100W                             |

### 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           | FSB                  |
| Net weight           | 8.69 kg (19.11 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

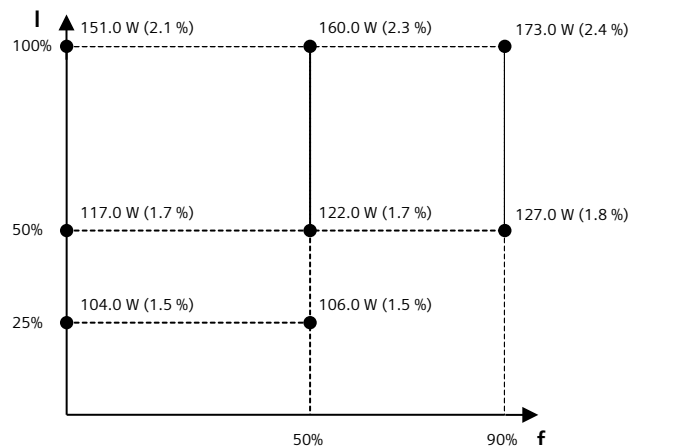
|                |                                        |
|----------------|----------------------------------------|
| Control option | Repair switch and local remote control |
|----------------|----------------------------------------|

Data sheet for SINAMICS G115D

Article No. : 6SL3521-3XK04-0AA0

| 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%) | 36.25 % |



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