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Data sheet for SINAMICS G115D

Article No. : 6SL3521-2XA25-5AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Input	
Number of phases	3 AC
Line voltage	380 ... 480 V +10 % -10 %
Line frequency	45 ... 66 Hz
Rated current	11.88 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (HO)	5.50 kW
Rated power NEC 480V (HO)	7.50 hp
Rated current (HO)	13.20 A
Max. output current	26.40 A
Pulse frequency	4 kHz
Output frequency for vector control	0 ... 240 Hz
Output frequency for V/f control	0 ... 550 Hz
Overload capability	
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

Standard digital inputs	
Number [1)]	4
Switching level: 0 → 1	11 V
Switching level: 1 → 0	5 V
Max. inrush current	15 mA
Fail-safe digital inputs	
Number	1
Digital inputs / outputs parameterizable	
Number	2
PTC/ KTY interface	
1 motor temperature sensor input, possible sensor PTC, KTY, PT1000, thermo click, accuracy ±5 °C	

General tech. specifications

Power factor λ	0.00 ... 0.91
Offset factor cos φ	0.99
Efficiency η	0.98
Power loss	0.171 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)
Ambient temperature	
Operation	-30 ... 55 °C (-22 ... 131 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	
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	FSC
Net weight	7.91 kg (17.40 lb)
Dimensions	
Width	425 mm (16.73 in)
Height	180 mm (7.09 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	PROFINET, EtherNet/IP
Version	M12

Control option

Control option	Local remote control

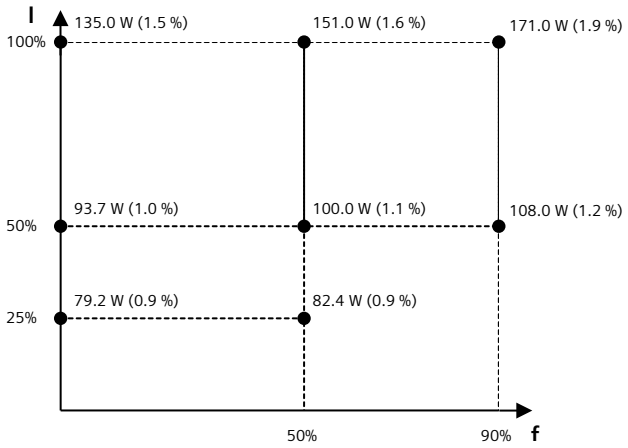
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Connections	
Connection type	
Version	Cable gland
3AC 400V supply	
Version	Cable gland
Conductor cross-section	4.00 ... 6.00 mm² (AWG 11 ... AWG 9)
24 V DC power supply	
Variant	external
Version	Cable gland
Digital I/O	
Version	Cable gland
Conductor cross-section	0.20 ... 1.50 mm² (AWG 24 ... AWG 22)
Motor	
Version	Cable gland
Conductor cross-section	4.00 ... 4.00 mm² (AWG 12 ... AWG 10)
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%)	29.41 %



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

[1] 4 inputs PNP, not isolated, additional 2x switcheable DI/DO