SIEMENS

Data sheet for SIMATIC MICRO-DRIVE TM Drives

Article No. : 6BK1136-6AB01-0CU0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Output	
Rated current	5 A
Max. output current	15 A

Electrical data

Operating voltage (DC)	24/48 V (16.8 ... 57.6 V)
Output frequency	599 Hz
Active power consumption	300 W (At 50 V)
Insulation	DC 850 V, type test (between backplane bus, DC input and functional grounding)
Overvoltage category	III

General tech.specifications

Product function	
I&M data	Yes
Isochronous mode	Yes
Four-quadrant operation	Yes
Speed control with encoder	Yes
Speed control without encoder	Stepper motors only
Safety Functions	Yes (Drive controller with hardwired STO)
Protection function	
Undervoltage protection	Yes
Overvoltage protection	Yes
Overload protection	Yes
Ground-fault protection	No
Short-circuit protection	Yes

Inputs / outputs

Standard digital inputs	
Number	1 (input for message signal)
Fail-safe digital inputs	
Number	1 (For STO, antivalent (2-pin) - 24 V DC)

Encoder

Encoder types	
Hall-effect sensor	Yes
Incremental encoder (symmetrical)	Yes (up to 500 Hz per channel)
BiSS-C encoder	Yes
Encoder interface	
Number	1
5 V	Yes
Short-circuit protection	Yes
Max. output current	150 mA

Status information

Alarms	
Diagnostic alarm	Yes
Hardware interrupt	No
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes
Short-circuit	Yes
Group error	Yes
Diagnostics indication LED	
RUN LED	Yes
ERROR LED	Yes

Ambient conditions

Installation altitude, max.	3,000 m
Pollution degree	2 according to EN 61800-5-1
Ambient temperature during	
Operation (horizontal installation)	-30 ... 60 °C No condensation, splash water, icing, salt spray or oil mist permitted. Note the derating data!
Operation (vertical installation)	-30 ... 50 °C No condensation, splash water, icing, salt spray or oil mist permitted. Note the derating data!
Transport	-30 ... 70 °C
Storage	-30 ... 70 °C

Connections

Max. motor cable length	
Shielded	10 m

Mechanical data

Degree of protection	IP20
Type of ventilation	Convection cooling
Brake design	holding brake control via the process image
Braking chopper	Yes
Net weight	55 g
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm

Certificates

Certificate of suitability	CE / cULus / RCM / KC / EAC / UKCA / RoHS / China-RoHS-Conformity
Verification of suitability for fail-safety	SIL 3 acc. to IEC 61508 (2010) and IEC 61800-5-2 (2016), PL d according to EN ISO 13849-1 (2023), Category 3 acc. to EN ISO 13849-1 (2023)

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens