AX8540-0120-0000 | Combined power supply and axis module

ℹ **Product status:** Product announcement | estimated market release 3rd quarter 2022

The AX8525 and AX8540 combined power supply and axis modules unite the function of an AX86xx power supply module with an AX81xx axis module in a single device. As a result, the AX-Bridge is not loaded by the axis current of the first axis and up to 50 A DC are available for additional axis modules. The power supply provides 80 A DC to the DC-Link and contains an internal brake resistor as well as a chopper for the connection of an external brake resistor. The integrated axis module with TwinSAFE safety functions is available with a rated current of 25 A or 40 A and can optionally be ordered with multi-feedback interface.

The TwinCAT 3 Drive Manager 2 serves as commissioning tool. Thanks to the structured design and the wide range of functions, commissioning of the axis is simple and intuitive.

Product information

Technical data

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Function	combined power supply and axis module with TwinSAFE Logic and multi-feedback interface
Channels	1
Rated supply voltage	3 x 200...480 V AC
DC-Link voltage	max. 848 V DC
DC-Link output current	80 A DC
Rated output current (channel)	40 A

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Peak output current (channel)	80 A
Feedback	OCT , BiSS C , EnDat 2.2/22 , TTL (DIFF RS422) , SinCos 1 Vpp
System bus	EtherCAT
Drive profile	CiA402 according to IEC 61800-7-201 (CoE)
Realization STO	by local TwinSAFE Logic, via FSoE or hard-wired via safe inputs
Safety standard	EN ISO 13849-1:2015 (Cat 4, PL e), EN 61508:2010 (SIL 3) and EN 62061:2005 + A1:2013/A2:2015 (SIL CL3)
Ambient temperature (operation)	0...+40 °C, up to +55 °C with power reduction (see documentation)
Approvals/markings	CE, cULus in preparation, EAC

Housing data	**AX85xx-xxxx**
Protection rating	IP20
Width	360 mm

Dimensions	**AX8540-0120-0000**
Height without connectors	230 mm
Depth without connectors	192 mm
Width	360 mm