



AX5801 | TwinSAFE drive option card

Drive-integrated safety functions:

– stop functions (STO, SS1)

Suitable for AX5000 Servo Drives from 1.5 A to 40 A:

- AX5x01-0000-0200 and -0202
- AX5x03-0000-0200 and -0202
- AX5x06-0000-0200 and -0202
- AX5112-0000-0200 and -0202
- AX5118-0000-0200 and -0202
- AX5125-0000-0200 and -0202
- AX5140-0000-0200 and -0202

Technical data	AX5801-0200
Operating voltage of the relays	24 V DC (-15 %/+20 %)
Operating voltage of the feedback contacts	24 V DC (-15 %/+20 %)
Max. switching current of the feedback contacts	0.35 A
Cross-section of the connections (use of ferrules is recommended)	0.2...1.5 mm ²
Stripping length of the wires	10 mm
Current consumption (total for both relays)	50 mA
Protocol	–
Fault response time	–
Weight	approx. 85 g
Ambient temperature (operation)	see documentation
Storage temperature	-25...+70 °C
Permissible humidity	5...95 %, non-condensing
Further environmental and operating conditions	see AX5000
Approvals/markings	Overview of TwinSAFE Certifications (PDF)
Realisation STO	hard-wired via safe inputs
Safe stop functions	Safe Torque Off (STO), Safe Operating Stop (SOS), Safe Stop 1 (SS1), Safe Stop 2 (SS2)
Safety standard	ISO 13849-1:2006 (Cat. 4, PL e) and IEC 61508 (ed.2) (SIL 3)

Ordering information	
AX5801-0200	TwinSAFE drive option card for AX5000 up to 40 A, HW 2.0: STO, SS1 (1)

Further components	
AX51xx	Digital Compact Servo Drives (1-channel)
AX52xx	Digital Compact Servo Drives (2-channel)
EL6900	TwinSAFE Logic
KL6904	TwinSAFE Logic Bus Terminal, 4 safe outputs
EK1960	TwinSAFE Compact Controller