AX5805 | TwinSAFE drive option card

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Drive-integrated safety functions:

– stop functions (STO, SOS, SS1, SS2)
– speed functions (SLS, SSM, SSR, SMS) with up to 8 speeds
– position functions (SLP, SCA, SLI) with reference cams
– acceleration functions (SAR, SMA)
– rotating direction functions (SDIp, SDIn)

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	AX5805-0000
Protocol	TwinSAFE/Safety over EtherCAT
Fault response time	≤ watchdog time (parameterisable)
Weight	approx. 75 g
Ambient temperature (operation)	see documentation
Environmental and operating conditions	see AX5000
Approvals/markings	Overview of TwinSAFE Certifications (PDF)
Realisation STO	initiated by TwinSAFE Logic via FSoE
Safe stop functions	Safe Torque Off (STO), Safe Stop 1 (SS1), Safe Stop 2 (SS2), Safe Operating Stop (SOS)
Safe direction functions	Safe Direction positive (SDIp), Safe Direction negative (SDIn)
Safe position functions	Safely Limited Position (SLP), Safe CAM (SCA), Safely Limited Increment (SLI)
Safe acceleration functions	Safe Maximum Acceleration (SMA), Safe Acceleration Range (SAR)
Safe speed functions	Safe Speed Range (SSR), Safely Limited Speed (SLS), Safe Speed Monitor (SSM)
Safety standard	EN ISO 13849-1:2015 (Cat. 4, PL e) and IEC 61508:2010 (SIL 3)

Technical data	AX5xxx	Options
AX5805-0000	TwinSAFE drive option card for AX5000 up to 40 A, HW 2.0: STO, SS1, SS2, SOS, SLS, SSM, SSR, SMS, SLP, SCA, SLI, SAR, SMA, SDIp, SDIn [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

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