Ambient conditions and dimensions

Usage environment	Safety module for installation in SD6 series drive controllers (ex works).
Ambient conditions	Ambient conditions match those of the base device.
Dimensions	Installation is done inside the device.

Features

Function	Uses functions and resources of the drive controller to monitor the motor safely.
Safety figure	PL e (category 4) in accordance with DIN EN ISO 13849-1 SIL 3 in accordance with DIN EN 61508 and DIN EN 61800-5-2 Successful type testing by TÜV.
Safety functions	STO, SS1, SS2 SOS, SDI, SLS, SSR, SLI, SLP, SBC, SBT SOS-M, SDI-M, SLS-M, SSR-M, SLI-M, SLP-M
Connections	X2: Motor temperature sensor X5, X8: Control of one or two brakes X7: 24 V_{DC} supply of the holding brakes X14: 8 safe binary inputs (function can be freely configured) X15: 5 safe binary outputs, max. 0.5 A (function can be freely configured) X50: Encoder input for additional TTL or SSI encoders, only required for asynchronous motors and/or SLP.
Power supply	24 V_{DC} for safe inputs/outputs 24 V_{DC} for brakes X50 encoder supply as needed over X15
Integrated brake control	X5: 24 V_{DC} / 3 A X8: 24 V_{DC} / 3.6 A (SBC) Fulfills the DGUV requirements for gravity-loaded axes.
Operating motors	Synchronous servo motors, asynchronous motors, synchronous linear motors
Encoders	Supports all encoders that are supported by the SD6 drive controller: Precise optical encoder, rugged resolver and efficient inductive encoder. No special requirements for the encoder attachment to the motor (no FMA attachment necessary).
Status information	Status information is available in the S-parameter group in the control unit and can be read out using a fieldbus, for example.
Reaction time	Detection of limit value violation < 10 ms (worst case)
Switch-off time	STO switch-off time of the power unit < 10 ms (worst case)
Commissioning / Service	PASmotion commissioning tool is integrated into the DS6. Password protection against unauthorized access. Configuration checksum for tracking changes. As typical for SAT, only exchange of the Paramodul in case of service.
Other	Replaces the ST6 standard option module in the drive controller (GSP > 200 €). ePLAN macro available in the ePLAN-DATA portal.

Gross selling price

Type designation	ID No.	GSP
SE6A	56432	€595.00