

Training System Motion TSY 042



The DIAS-DRIVE 2000 training setup TSY 042 is based on the MDP2102-DDD-03 and is equipped with a motor including a safe HIPERFACE DSL encoder system and holding brake on axis 1 and a motor with resolver on axis 2.

Using the secure encoder system, all encoder-related safety functions of the MDD 2000 such as SS1, SS2, SLS, SOS, and others can be demonstrated during training using practical examples. The integrated holding brake also allows for testing of SBC (Safe Brake Control) and SBT (Safe Brake Test).

The second motor enables exciting practical exercises, such as the implementation of a “flying saw.” Furthermore, the motion library in the control can be used to simulate additional axes in order to represent complex motion sequences.

Performance Data

Interfaces	1x VARAN In (Tyco Mini I/O) 1x VARAN Out (Tyco Mini I/O)
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Electrical Requirements

Mains voltage	1x 230 V AC (Schuko plug)
Nominal power	250 VA
Mains voltage range	1x 207-240 V AC
Overvoltage category	II
Power frequency	50/60 Hz

Protection against Electric Shock

Protection against direct contact	Protective grounding (construction is in a fully grounded housing)
Protection in error case	In the error case, the device's internal fuse disconnects the power supply.
Internal fuse type	Fuse holder slow 5x 20 mm 3.15 A 250 V

Environmental Conditions

Storage temperature	-25 ... +70 °C
Environmental temperature	0 ... +40 °C
Humidity	maximum relative humidity 85 %, non-condensing
Altitude	up to 1000 m above NN at rated values 1000-3000 m above NN with reduction by 1.5 % / 100 m (rated output current and rated input power affected)
Operating conditions	pollution degree 2
Noise emissions	≤ 70 dB
EMC resistance	IEC 61800-3 (industrial area)
EMC noise generation	IEC 61800-3 (industrial area)
EMC network impact	IEC 61800-3 (industrial area)
Vibration resistance	frequency: 5-150 Hz acceleration: 1 g amplitude: 0.075 mm (0.15 mm pp)
Shock resistance	acceleration: 15 g
Protection type	IP20

Mechanical Dimensions

Dimensions (W x H x D)	250 x 380 x 390 mm
Weight	13 kg

Article Number and Miscellaneous

Name	Training System Motion TSY 042	
Article number	12-100-042	
Approvals	CE	yes
	UL	designed according to UL
	Functional Safety	yes
	UKCA	no
Mission time	20 years	