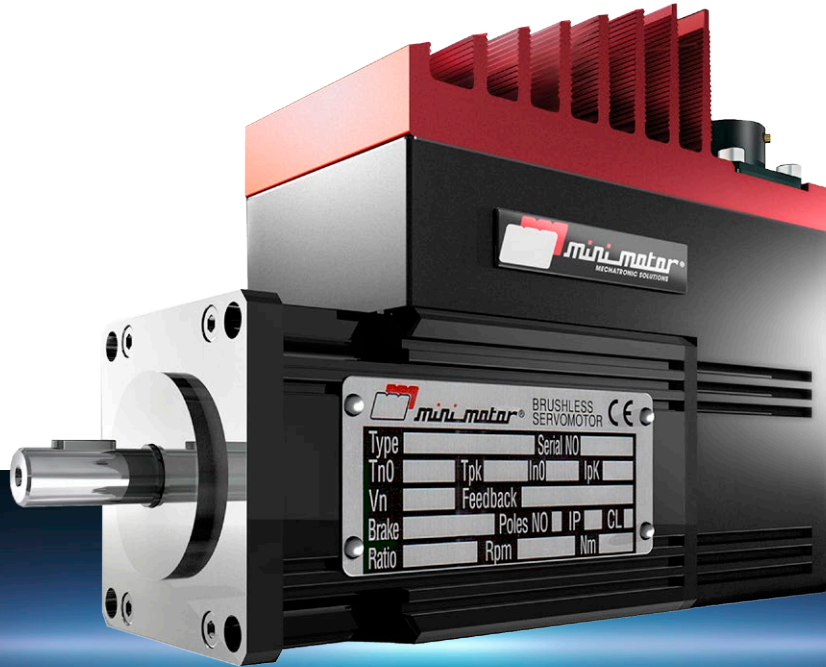


# DBS SERIES

The new brushless servomotors with integrated drive.



Characteristics	Description	Notes
	DBS55/50	DBS55/100
Rated supply voltage	24Vdc/48Vdc	48 Vdc
Rated supply current	12A@24V / 6A@48V	12A
Nominal speed	3000	3000
Nominal torque	0,4Nm	0,8Nm
Motor output power	125W	250W
Rated overload	200% for 60 seconds	
Nominal output frequency carrier	4 kHz/16kHz	
Motor control algorithm	Sinusoidal brushless with 12 Bit absolute encoder	
Motor braking	According to the deceleration time	
Electromagnetic motor brake type	24Vdc max. 0.5A	optional
Digital inputs	- 5 pnp type (max 1Mb/s)	multifunction
Analog input	- [0÷5]Vdc - [0÷10]Vdc external - [4÷20]mA	optional configurable optional configurable
Output	1 Relay SPST-NO with voltage free contact of 5 A 250Vac/30Vdc	
Communication	1 Serial modbus RTU slave for control panel - serial CANBUS - serial Profibus DP slave - serial ModBus RTU	optional with expansion board
Control	Control panel with integrated potentiometer	optional
Protection Functions (main)	Reverse polarity, overcurrent, overvoltage, undervoltage, overtemperature, overload, memory error, communication error	
Cooling	natural	
Standard protection	IP65	
Environment temperature	[-10÷40]°C	
Installation environment	Pollution degree 2 free from direct sunlight, vibrations, dust, corrosive or flammable gases, mist, drip oils and vaporous water with and without high levels of salt	
Humidity	[20÷90]% of relative humidity (non-condensing, non-corrosive)	
Installation position	maximum altitude 1000m above the sea level	
Storage temperature	[-20÷60]°C (momentary temperature for the transport)	
Applicable Standard	CE	

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