OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

MINIMOTOR - DBS BRUSHLESS SERVOMOTORS WITH INTEGRATED DRIVE

DBS 55/50
24/48V dc 3000rpm 0.4Nm 125W



- Efficient and compact
- Saves seperate cable runs
- Up to 2.1Nm
- Open Bus protocols
- Reduce machine build components

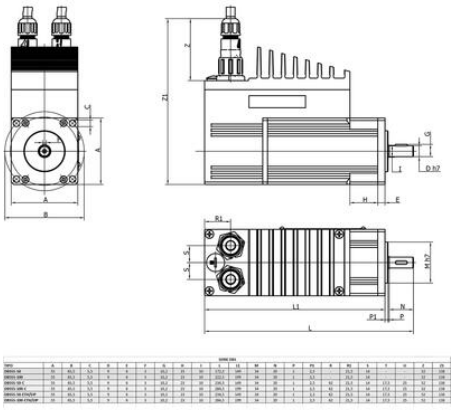
PRODUCT DESCRIPTION

Minimotor DBS Brushless Motor
The Minimotor DBS series is a compact, high-performance brushless servomotor with an integrated drive, designed for precision motion control applications. Combining motor, encoder and electronics in a single unit, it simplifies installation while delivering reliable and efficient performance.
Key features:
4-pole sinusoidal brushless motor with integrated drive
24–48 VDC supply for low-voltage, energy-efficient operation
Multi-turn absolute encoder for precise position feedback
IP65 protection for harsh industrial environments
High torque density with speeds up to 3000 rpm
Support for major fieldbus protocols (EtherCAT, CANopen, PROFINET, etc.)
Ideal for automation and machine building, the DBS offers accurate control of position, speed and torque in a compact, plug-and-play solution.
Please click here for 2D and 3D drawings.

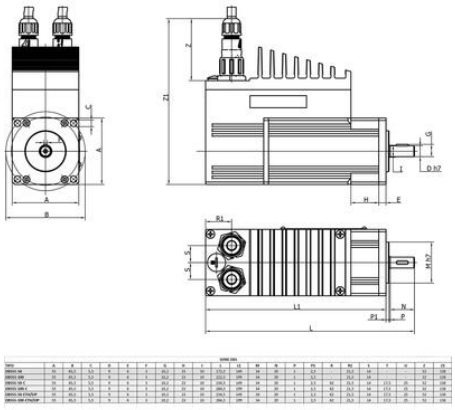
TECHNICAL DATA

4967_Rated current (A)	8A@24V/4.2A@48V
Ambient temperature	-10 ... +40°C
CanOpen	Yes
CE approved	Yes
Communication	USB
Communication error protection	Yes
Digital inputs	2 pnp (24Vdc, 500kHz) , 3 pnp (24Vdc, 7kHz)
Electronic brake output	24Vdc, max 0.5A
Ethercat	Yes

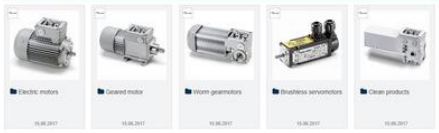
Ethernet IP	Yes
Input voltage dc	24/48 Vdc
IP class	IP65
Memory error protection	Yes
Modbus RTU	Yes
Motor control algorythm	Sinusoidal brushless with 12Bit single-turn / 20Bit multi-turn absolute encoder
Nominal output frequency carrier	4/8/12 kHz
Nominal overload	200% x 60 sec
Nominal speed	3000 rpm
Nominal torque	0.4
Output power	125 W
Outputs	1 NO 2A (42 Vdc)
Over voltage protection	Yes
Overcurrent protection	Yes
Overheat protection	Yes
Overload protection	Yes
Polarity reverse protection	Yes
PowerLink	Yes
ProfiNET	Yes
Under voltage protection	Yes







CAD model selection





Please see product description above for 2D and 3D drawings