

# MINIMOTOR DBS-S3 BRUSHLESS SERVOMOTOR WITH INTEGRATED DRIVE

Intermittent periodic duty

DBS-S3 55/50  
24/48 Vdc, 3000rpm, 0.4nm, 125W



- Efficient and compact
- Saves separate cable runs
- Up to 2.1nm rated torque
- Open Bus protocols
- Reduce machine build components

## PRODUCT DESCRIPTION

## TECHNICAL DATA

### GENERAL DATA

Nominal speed	3000 rpm
Nominal torque	0,4 Nm
Input voltage dc	24/48 Vdc
Digital inputs	2 pnp (24Vdc, 500kHz) , 3 pnp (24Vdc, 7kHz)
Outputs	1 NO 2A (42 Vdc)
Output power	125 W
Rated current	8A@24V/4.2A@48V A
Nominal overload	200% x 60 sec
Motor control algorithm	Sinusoidal brushless with 12Bit single-turn / 20Bit multi-turn absolute encoder
Nominal output frequency carrier	4/8/12 kHz
Electronic brake output	24Vdc, max 0.5A
Ambient temperature	-10 ... +40°C

### SAFETY FEATURES

IP class	IP65
CE approved	Yes
Over voltage protection	Yes
Under voltage protection	Yes

<b>Overheat protection</b>	Yes
<b>Memory error protection</b>	Yes
<b>Polarity reverse protection</b>	Yes
<b>Overcurrent protection</b>	Yes
<b>Communication error protection</b>	Yes
<b>Overload protection</b>	Yes

## **COMMUNICATION**

<b>Communication</b>	USB
<b>Ethercat</b>	Yes
<b>CanOpen</b>	Yes
<b>ProfiNET</b>	Yes
<b>Ethernet IP</b>	Yes
<b>Modbus RTU</b>	Yes
<b>PowerLink</b>	Yes