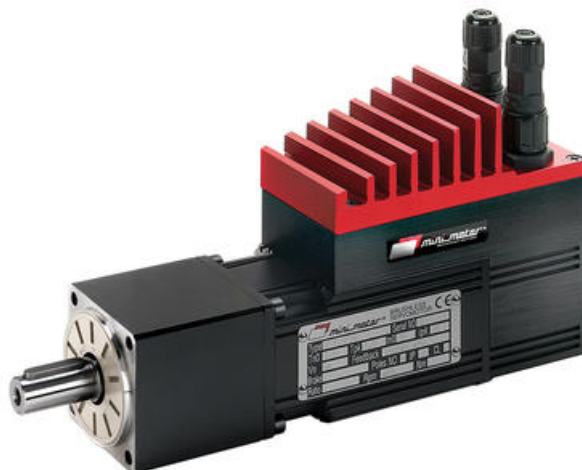


MINIMOTOR - DBSE BRUSHLESS SERVOMOTORS WITH PLANETARY GEARBOX

DBSE 55/50-5
24/48V dc 600rpm 1.9 Nm

- Efficient and compact
- Saves individual cable runs
- Up to 95Nm
- Open Bus protocols
- Reduce machine build components



PRODUCT DESCRIPTION

MOTOR: Brushless 4-pole three-phase sinusoidal motor, totally enclosed. Rotor with NdFeB magnets. Thermal cutoff. Winding Class F. Thermal cutoff. Protection IP65 in compliance with IEC/EN 60529 standards. Bearings with reduced backlash and special grease for high temperatures.

DRIVE: Power 24 and/or 48 Vdc • Magnetic absolute encoder SSI (12bit single-turn / 20bit multi-turn) with internal buffer battery • 5 PNP digital inputs and 1 analogue input -10 +10V ext. (0-5 o 4-20mA optional) • 1 relay output (NC-NO) • USB port for parametrisation • Torque, speed, position and homing control.

GEAR UNIT: planetary with hardened steel case with broached precision teeth Class 7. Heat-treated sun and planet gears.

Seal rings in special high-temperature rubber (FKM).
Lubrication with special long-lasting oil.
Rated torque up to 95 Nm.

All the models are implemented with the new "open" platform, which permits configuration with the following primary protocols: CanOpen, Ethercat, Modbus, Ethernet/IP, Profinet, Powerlink.

For full motor specifications please see motor only 'DBS' or download literature below.

[Please click here for 2D and 3D drawings](#)

TECHNICAL DATA

GENERAL DATA

Nominal speed	400 rpm
Nominal torque	1,9 Nm
Gear stages	1
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

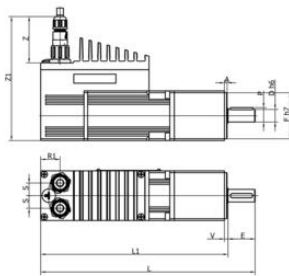
Nominal overload	200% x 60 sec
Motor control algorithm	Sinusoidal brushless with 12Bit single-turn / 20Bit multi-turn absolute encoder
Nominal output frequency carrier	4/8/12 kHz
Electronic brake output	24Vdc, max 0.5A
Ambient temperature	-10 ... +40°C

SAFETY FEATURES

IP class	IP65
CE approved	Yes
Over voltage protection	Yes
Under voltage protection	Yes
Overheat protection	Yes
Memory error protection	Yes
Polarity reverse protection	Yes
Overcurrent protection	Yes
Communication error protection	Yes
Overload protection	Yes

COMMUNICATION

Communication	USB
Ethercat	Yes
CanOpen	Yes
ProfiNET	Yes
Ethernet IP	Yes
Modbus RTU	Yes
PowerLink	Yes
Ratio	5:1



SITE	COUNTRY	LATITUDE	LONGITUDE	WATER YEAR												WATER YEAR
				1	2	3	4	5	6	7	8	9	10	11	12	
MUSKIE M-1	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-2	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-3	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-4	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-5	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-6	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-7	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
	USA	47° 00' N	68° 00' W	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MUSKIE M-8	USA	47° 00' N	68° 00' W	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	USA	47° 00' N	68° 00' W	1965	1966											

