

Motion Control Systems

96 mNm

V2.5, 4-Quadrant PWM with RS232 or CANopen interface

48 W

3268 ... BX4 Cx

| Values at 22°C and nominal voltage | 3268 6 | | 024BX4 Cx | |
|--|------------------|--|-----------|-------------------|
| Power supply electronic | UB/UEL | | 12 30 | V DC |
| Power supply motor ¹⁾ | /U _B | | 0 30 | V DC |
| Nominal voltage for motor | Un | | 24 | V |
| No-load speed (at UN) | n o | | 5 000 | min ⁻¹ |
| Peak torque (S2 operation for max. 6s) | Mmax. | | 192 | mNm |
| Torque constant | к м | | 43,5 | mNm/A |
| PWM switching frequency | f _{РWM} | | 78 | kHz |
| Efficiency electronic | η | | 95 | % |
| Standby current for electronic (@ U_B =24V) | l el | | 0,055 | Α |
| Speed range (up to 30V) | | | 1 6 400 | min ⁻¹ |
| | | | | |
| Shaft bearings | | ball bearings, preloaded | | |
| Shaft load max.: | | | | |
| – with shaft diameter | | 5 | | mm |
| - radial at 3 000 min ⁻¹ (5 mm from mounting fl | ange) | 50 | | N |
| – axial at 3 000 min-1 (push / pull) | | 5 | | N |
| axial at standstill (push / pull) | | 50 | | N |
| Shaft play: | | | | |
| – radial | | ≤ 0,015 | | mm |
| – axial | | = 0 | | mm |
| | | | | |
| Operating temperature range | | -40 +100 | | °C |
| Housing material | | motor: stainless steel; controller housing: zinc, black anodized | | |
| Mass | | 460 | | g |
| 1) Only available for option 2003 (congrate now | | | | |

¹⁾ Only available for option 2993 (separate power supply)

| Rated values for continuous operation | | | | |
|---------------------------------------|-----------------------|-------|-------------------|--|
| Rated torque | M _N | 96 | mNm | |
| Rated current (thermal limit) | <i>I</i> _N | 2,38 | Α | |
| Rated speed | nn | 3 900 | min ⁻¹ | |
| | | | | |

| Interface / range of functions | CS | CO | |
|---------------------------------------|---|----------------|--|
| Configuration from Motion Manager 5.0 | RS232 | CANopen | |
| Fieldbus | RS232 | CANopen | |
| | | | |
| Operating modes (CS) | Position/speed/torque control via interface or analogue set value specification. Operati- | | |
| | on as servo amplifier in voltage controller mode. | | |
| Operating modes (CO) | Profile Position Mode (PP), Profile Velocity Mode (PV), Homing Mode. | | |
| Speed range | see motor diagram | | |
| Application programs, (CS) | Command sequences from movement and control commands can be placed directly into | | |
| | the controller as user programs. | | |
| | Enables stand-alone operation without a connected communication interface. | | |
| Additional functions | Overload protection for electronics and motor, self-protection from overheating, over- | | |
| | voltage protection in g | enerator mode. | |
| | | | |

Note:

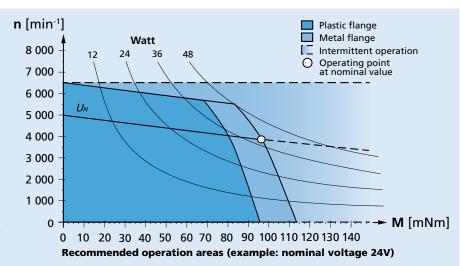
The display shows the range of possible operation points of the drives at a given ambient temperature of 22°C.

The diagram indicates the recommended speed in relation to the available torque at the output shaft.

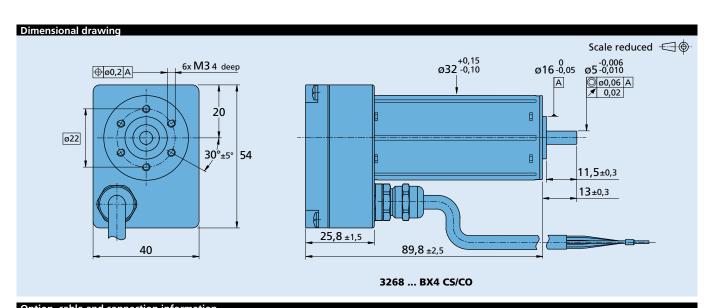
It includes the assembly on a plastic- as well as on a metal flange (assembly method: IM B 5).

The nominal voltage linear slope describes the maximal achievable operating points at nominal voltage.

Any points of operation above this linear slope will require a supply voltage $U_{mot} > U_{N.}$







| Option, c | able and connection | information | | | |
|-----------|---|---|--|--|--|
| Example p | Example product designation: 3268G024BX4CS-2993 | | | | |
| Option | Туре | Description | Connection | | |
| | | | Wires Function | | |
| 2993 | Supply | Separate voltage supply for motor and electronics | blue GND | | |
| | | | pink U _B | | |
| | | | brown Analog input | | |
| | | | white Fault output | | |
| | | | grey Analog GND | | |
| | | | yellow RS232 RXD / CAN_L | | |
| | | | green RS232 TXD / CAN_H | | |
| | | | red Connection No. 3 | | |
| | | | | | |
| | | | Standard cable | | |
| | | | PVC-cable, 8-conductors AWG 24, length 1 meter | | |
| | | | Caution: | | |
| | | | Connect motor supply terminals to the correct | | |
| | | | polarity. Electronics are protected against polarity | | |
| | | | reversal by an internal fuse. In case of damage, this | | |
| | | | internal fuse can only be replaced at the factory. | | |
| | | | Note: For details on the connection assignment, | | |
| | | | see device manual MCS. | | |
| | | | see device manda mes. | | |

| Product combination | | | |
|---|----------|-------------------|--|
| Precision Gearheads / Lead Screws | Encoders | Drive Electronics | Cables / Accessories |
| 32GPT 32/3R 38/1 38/1 S 38/2 38/2 S 42GPT 32L TL 32L ML 32L SB 32L PB | | Integrated | To view our large range of accessory parts, please refer to the "Accessories" chapter. |