

## **Motion Control Systems**



V3.0, 4-Quadrant PWM with RS232 or CANopen interface

## 18 mNm

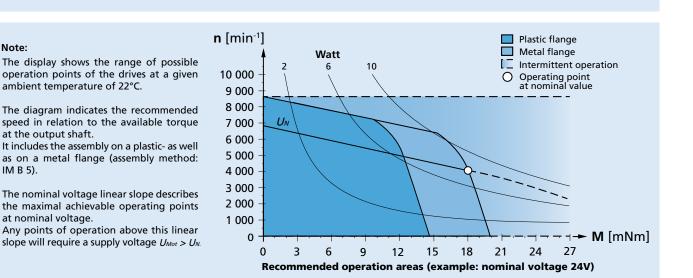
10,5 W

## 2232 ... BX4 IMC RS/CO Values at 22°C and nominal voltage 012 BX4 IMC 024 BX4 IMC 2232 S Power supply electronic V DC UP/UB 6 ... 30 6 ... 30 6 ... 30 Power supply motor<sup>1)</sup> 6 ... 30 V DC **U**<sub>Mot</sub> Nominal voltage for motor No-load speed (at UN) Peak torque (S2 operation for max. 30s) UN 12 24 V 6 300 6 700 min<sup>-1</sup> no Mmax mNm 36 36 Torque constant 17 32,4 mNm/A kм PWM switching frequency 80 fpwm 80 kHz Efficiency electronic Standby current for electronic (@ U<sub>P</sub>=24V) 95 95 % $\eta$ 0.027 0,027 Α Speed range (up to 24V / 30V) 1 ... 13 000 1 ... 8 500 min<sup>-1</sup> Shaft bearings ball bearings, preloaded Shaft load max .: 3 20 - with shaft diameter mm - radial at 3 000 min<sup>-1</sup> (5 mm from mounting flange) - axial at 3 000 min<sup>-1</sup> (push / pull) N 2 Ν 20 - axial at standstill (push / pull) Ν Shaft play: – radial – axial ≤ 0,015 mm = 0 mm Operating temperature range -40 ... +100 °C Housing material stainless steel Mass 77 g

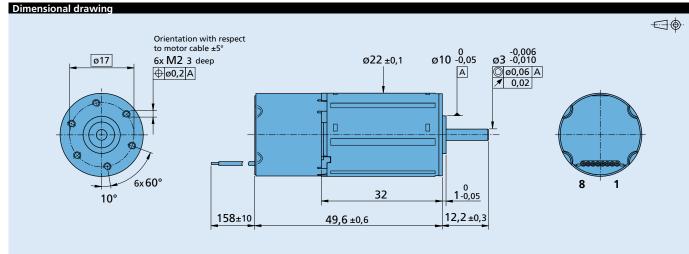
<sup>1)</sup> Not available with option 7431 (common power supply)

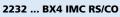
Rated values for continuous operation							
Rated torque	MN	18	18	mNm			
Rated current (thermal limit)	IN	1,16	0,62	A			
Rated speed	nN	3 500	4 000	min <sup>-1</sup>			
Note: Rated values are calculated with nominal voltage and at a 22°C ambient temperature. Mounted on metal flange.							

Interface / range of functions	RS	CO		
Configuration from Motion Manager 7	RS232	CANopen		
Fieldbus	RS232	CANopen		
Operating modes	PP, PV, PT, CSP, CSV, CS	PP, PV, PT, CSP, CSV, CST and homing acc. to IEC 61800-7-201 or IEC 61800-7-301 as well		
	as position-, speed- an	as position-, speed- and torque control via analog setpoint or voltage controller		
Speed range	see motor diagram	see motor diagram		
Application programs		Max. 8 application programs (BASIC), one of which is an autostart function		
Additional functions	Touch-probe input, co	Touch-probe input, connection of a second incremental encoder		









Example product designation: 2232S024BX4 IMC CO 7431 Connection					
Option	Туре	Description	Standard	Option: 7431	
			No. Function	No. Function	
3830	Connector	AWG 26 / PVC ribbon cable with connector MOLEX Microfit 3.0, 43025-0800, recommended mating connector 43020-0800	1 UP 2 UMot 3 GND 4 DigIn1 / DigOut2 / AnIn1 5 DigIn2 / AGND	<ol> <li>AnIn2</li> <li>U<sub>B</sub></li> <li>GND</li> <li>DigIn1 / DigOut2 / AnIn1</li> <li>DigIn2 / AGND</li> </ol>	
7431	Supply	Common voltage supply for motor and electronics	6 DigIn3 / DigOut1	6 DigIn3 / DigOut1	
7630	I/O	AnIn1 ±10V (without DigOut2)	7 RS232 RXD / CAN_L	7 RS232 RXD / CAN_L	
			8 RS232 TXD / CAN_H	8 RS232 TXD / CAN_H	
			<b>Standard cable</b> PVC ribbon cable 8 x AWG 2	Standard cable PVC ribbon cable 8 x AWG 26, 1,27 mm Note: For details on the connection assignment, see device manual IMC.	

Product combination Precision Gearheads / Lead Screws	Encoders	Drive Electronics	Cables / Accessories
22GPT 22/7 26A 22L ML 22L SB 22L PB		Integrated	To view our large range of accessory parts, please refer to the "Accessories" chapter.

Due duration

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