

NEW

Brakes

Electromagnetically Released System

For combination with
Brushless DC-Servomotors

Series PMB32

Values at 22°C	PMB32	12V	24V	
Rated voltage (DC) ±10% smoothed	U_N	12	24	V
Resistance	R	50	100	Ω
Current	I	0,48	0,24	A
Rated power	P_n	6	6	W
Mechanical response times: ¹⁾				
– Coupling time	13			ms
– Disconnection time	24			ms
Rated holding torque ²⁾	400			mNm
Moment of inertia	19			gcm ²
Max. permissible speed (without braking)	10 000			min ⁻¹
Temperature range: ³⁾				
– Operating temperature	-15 ... +120			°C
– Storage temperature	-15 ... +120			°C
Mass	100			g

¹⁾ Depending on the requirements, a Switch-off voltage-limitation function can be applied using an anti-parallel diode, varistor or other. However, this will influence the brake switching time.

²⁾ Under dry operation conditions, absolutely oil-free.

³⁾ Non condensing atmosphere.

Product combination

Dimensional drawing A	L1 [mm]		
3216 ... BXTH	50,9		
4221 ... BXTH	56,2		
Dimensional drawing B	L1 [mm]		
3216 ... BXTH -IEF3	56,4		
4221 ... BXTH -IEF3	61,4		

Note: For combinations of several components, please contact your responsible sales consultant.

Due to the thermal losses of the brake the continuous power of the combination out of motor and brake might be reduced compared to the motor datasheet.

Features

The brakes are designed as DC operated permanentmagnet brakes (electromagnetically released system).

The brakes are intended only for use as holding brakes (unsuitable for braking rotating motor shaft).

Caution

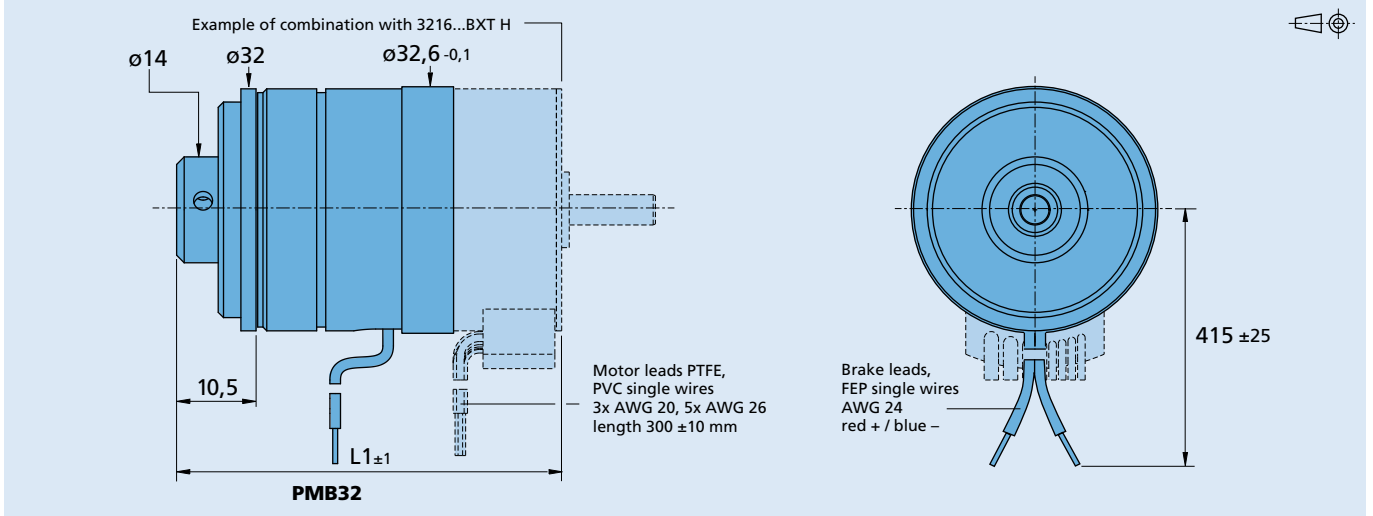
Brake gets hot during operation - take protection measures.

To maintain and to reach rated holding torque a break-in process within the application is recommended.

Option, Cable and connection information

 Example product designation: **3216W024BXT H-IEF3 PMB3224V**

Option	Type	Description	Connection	
			Function	Colour
			Brakes +	red
			Brakes -	blue
			Standard cable	
			AWG24 FEP	

Dimensional drawing A

Dimensional drawing B
