

SKF motor encoder units - sizes from 6202 to 6209

## SKF motor encoder units

Uniquely suited for most AC motors, SKF motor encoder units are available for shaft diameters from 15 to 45 mm, with the connector that best fits your application.

## The SKF solution

Modern AC motors require encoders to continuously monitor speed, position and direction. These encoders, which are typically external to the motor, are exposed to existing environmental conditions, which in some cases, can have a significant impact on service life.

SKF motor encoders, however, are mechatronic units that combine sensor and bearing technology. They are mounted directly inside the motor and require only 6 mm extra space (axial direction). The sensor body, impulse ring and bearing are mechanically attached to each other, forming a compact, integrated, ready-to-mount unit that is shielded from external influences.

SKF encoders, which can be installed on the drive or driven side of asynchronous motors, provide a medium resolution signal between 32 and 80 digital pulses per revolution. They can accurately detect speeds from zero to 20 000 r/min.

## **Features**

- monitors speed, position and direction of the shaft
- accurately detects speeds from zero to 20 000 r/min
- wide range of cable length and connectors available.

## **Benefits**

- simple to mount
- reduces number of components
- compact design
- designed to be robust and reliable.



	Princ		r unit	Rotational					Designation*
	dime <sup>a</sup>	<b>nsions</b> D	Т	<b>speed</b> max	No. of pulses	Period accuracy	Duty cycle	Phase shift	
<del></del> T	mm			r/min	-	%		degrees	-
	15	35	17	13 000	32	± 3	50 ± 10	90 ± 30	BMB-6202/032S2/EA002A
	20	47	20	10 000	48	± 3	50 ± 10	90 ± 30	BMB-6204/048S2/EA002A
	25	52	21	8 500	48	± 3	50 ± 10	90 ± 30	BMB-6205/048S2/EA002A
D     d	30	62	22	7 500	64	± 4	50 ± 10	90 ± 45	BMB-6206/064S2/EA002A
	40	80	24	5 600	80	± 5	50 ± 10	90 ± 45	BMB-6208/080S2/EB002A
	45	85	25	5 000	80	± 5	50 ± 10	90 ± 45	BMB-6209/080S2/EB002A
	* For USA replace "E" with "U", e.g. BMB-6202/032S2/UA002A								

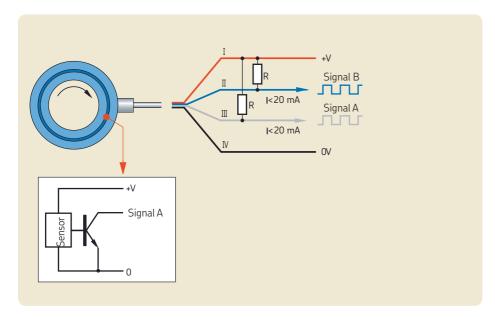


		Table 1
Voltage	Recommended resistors R	
+V DC	Ω	
5 9 12 24	270 470 680 1 500	

Electrical parameters

Circuit diagram

SKF is a registered trademark of the SKF Group.

© SKF Group 2006
The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

Publication 6287 EN

Printed in Sweden.

