

Line	<i>MAGRES</i>						
Operating principle	magnetic						
Type	Singleturn				Multiturn		
Max. resolution	12 Bit	12 Bit	12 Bit	12 Bit	12/18 Bit	12/18 Bit	12/18 Bit



Type	<b>BMSK 42L</b>	<b>BMSH 42S</b>	<b>BMSH 58S</b>	<b>BMSH 58S</b>	<b>BMMH 42S</b>	<b>BMMH 58S</b>	<b>BMMH 58S</b>
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Steps/rev	4096				4096 / 262,144		
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Parallel	■	■	■		■	■	
SSI	■	■	■		■	■	
CANopen		■	■		■	■	
Profibus DP				■			■
DeviceNet				■			■
CANopen				■			■

<b>Mechanical data</b>	Shaft type	Kit	Hollow shaft	Hollow shaft	Hollow shaft	Hollow shaft	Hollow shaft	Hollow shaft
	Dim. Housing Mounting Depth	ø 52/42 mm 15.5 mm (35 mm)* <sup>1</sup>	ø 42 mm 40 mm (47 mm)* <sup>2</sup>	ø 58 mm 47 mm	ø 58 mm 73.5 mm	ø 42 mm 47 mm	ø 58 mm 47 mm	ø 58 mm 73.5 mm
	Mounting	Flange	Servo	Servo	Servo	Servo	Servo	Servo
	Protection class	IP 40 / IP 67* <sup>1</sup>	IP 65	IP 64	IP 64	IP 65	IP 64	IP 64
	Temperature range	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C
	Max. revolution* <sup>3</sup>	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm
	Connection cable connector	radial axial	radial -	radial -	Bus cover -	radial -	radial -	Bus cover -

<b>Special features</b>	Zero point programming	■	■	■	■	■	■	■
	Resolution programming	-	-	-	■	-	■	■
	Mode programming	-	-	-	-	-	-	-
	Features	Extended IP rating with cable* <sup>1</sup>  IP 68 protection on encoder face	High shock and vibration resistance			Multiturn with lithium cell	Multiturn with lithium cell	Multiturn with lithium cell

\*<sup>1</sup> Cable radial \*<sup>2</sup> CANopen \*<sup>3</sup> Electrical

<i>ProCoder</i>		<i>Signalizer</i>				
optical		optical				
Singleturn	Multiturn	Singleturn			Multiturn	
13 Bit	13/16 Bit	17 Bit	18 Bit	18 Bit	18/18 Bit	18/18 Bit



<b>BPSV 58S/K</b>	<b>BPMV 58S/K</b>	<b>BOSD 58S</b>	<b>BOSH 58S</b>	<b>BOSH 58S</b>	<b>BOMH 58S</b>	<b>BOMH 58S</b>
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8192	8192 / 65,536	131,072	262,144	262,144	262,144 / 262, 144	
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		■	■		■	
■	■			■		■
■	■			■		■
■	■			■		■

Shaft	Shaft	Through shaft	Hollow shaft	Hollow shaft	Hollow shaft	Hollow shaft
ø 58 mm 89 mm	ø 58 mm 89 mm	ø 58 mm 33 mm	ø 58 mm 33 mm (45.7mm)* <sup>2</sup>	ø 58 mm 73.5 mm	ø 58 mm 45.7 mm	ø 58 mm 73.5 mm
Clamp / Servo	Clamp / Servo	Servo w. spring	Servo w. spring	Servo w. spring	Servo w. spring	Servo w. spring
IP 65	IP 65	IP 42	IP 64	IP 64	IP 64	IP 64
-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C	-20 to +85 °C
6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Bus cover	Bus cover -	radial radial	radial radial	Bus cover -	radial	Bus cover -

■	■	■	■	■	■	■
■	■	-	■	■	■	■
-	-	-	■	■	■	■
Stainless steel also available	Stainless steel also available  Multiturn with lithium cell	Continuous selftest	Continuous selftest	Continuous selftest	Continuous selftest	Continuous selftest
		Configurable	Configurable	Configurable	Configurable	Configurable
		Interface for industrial PC's	Interface for industrial PC's	Interface for industrial PC's	Interface for industrial PC's Multiturn with lithium cell	Interface for industrial PC's Multiturn with lithium cell

Shaft with clamping flange on request.