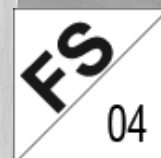
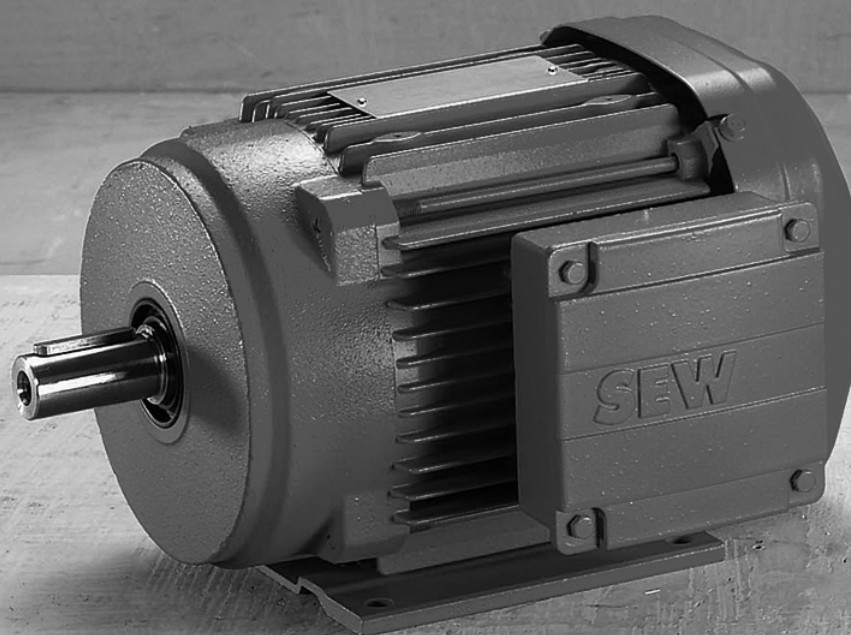




SEW
EURODRIVE

Data Sheet



Safety-Rated AG7W Encoder
Functional Safety for AC Motors
DR.71-225, 315



Data Sheet

Characteristic safety values for AG7W encoders

1 Data Sheet



INFORMATION

This data sheet does not replace the following applicable documents:

- "DR.71-225, 315 AC Motors" operating instructions
- "Safety-Rated Encoders – Functional Safety for AC Motors DR.71-225, 315" addendum to the operating instructions

1.1 Characteristic safety values for AG7W encoders

The following table shows the characteristic safety values of the safety-rated AG7W encoders:

Characteristic safety values for AG7W	
	Sine/cosine interface
Safety class / standard	<ul style="list-style-type: none"> • SIL 2 according to IEC 61508 • PL d / cat. 3 according to EN ISO 13849-1
Probability of dangerous failure (PFH _d) ^{1) 2)}	6.4×10^{-9} 1/h
Service life / proof test interval (PT)	20 years
Safety functions that can be implemented	SS1, SS2, SOS, SLA, SAR, SLS, SLI, SDI according to 61800-5-2

- 1) For a mean maximum ambient temperature of 40 °C.
- 2) The specified value is based on a diagnostic coverage of 90% that must be achieved with an external encoder evaluation unit. For corresponding error presumptions, refer to the EN 61800-5-2 standard. The encoder evaluation unit must meet at least the requirements for SIL 2.