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Built-In Encoders, Add-On Encoders, and Safety Encoders



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ES7S, EV7S

Encoder	Size, unit	ES7S	EV7S
Motor series and size		DRN../DRU../DR2.71 – 315	
Pulse output		Sin/cos	
Supply voltage	U_B	DC 7 V – 30 V	DC 7 V – 30 V
Maximum current consumption, effective value	I_{in}	140 mA	
Maximum pulse frequency	f_{max}	150 kHz	150 kHz
Incremental tracks; periods per revolution	A, B	1024 (10 bits)	
	C	1	
Position resolution, increments per revolution	A, B	4096 (12 bits)	
Output amplitude per track (peak-to-peak)	U_{high}	1 V	
	U_{low}		
Output current per track, effective value	I_{out}	10 mA	
Pulse duty factor in accordance with IEC 60469-1, n = constant		–	
Phase offset A : B n = constant		$90^\circ \pm 2^\circ$	$90^\circ \pm 2^\circ$
Accuracy ⓘ		0.0194°	0.0194°
Vibration resistance in accordance with			