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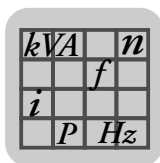
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Data Sheet



Encoder Comparison DT/DV Motors – DR Motors



1 Encoder Comparison: DT/DV Motors – DR Motors

The table shows encoders for DT/DV motors in comparison to encoders for DR motors:

Encoder type	Electrical design	DT/DV reference encoder	DT../DV.. size	Part number	New encoder	DR.. size	Part no. without cover	Part no. with cover	
Incremental encoder	Sin/cos	ES1S	71-100	0 186 049 6	ES7S	71-132	1 361 656 0	1 361 595 5	
		ES2S	112-132S	0 186 050 X	ES7S	71-132	1 361 656 0	1 361 595 5	
		EV1S	71-132ML	0 185 707 X	ES7S	71-132	1 361 656 0	1 361 595 5	
		EV1S	160-225	0 185 707 X	EG7S	160-225	1 362 186 6	1 361 884 9	
		EV2S	71-132ML	0 187 927 8	ES7S	71-132	1 361 656 0	1 361 595 5	
		EV2S	160-225	0 187 927 8	EG7S	160-225	1 362 186 6	1 361 884 9	
Incremental encoder	HTL	ES1C	71-100	0 185 866 1	ES7C	71-132	1 362 157 2	1 362 190 4	
		ES2C	112-132S	0 185 867 X	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV1C	71-132ML	0 185 599 9	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV1C	160-225	0 185 599 9	EG7C	160-225	1 362 207 2	1 362 162 9	
		EV2C	71-132ML	0 187 924 3	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV2C	160-225	0 187 924 3	EG7C	160-225	1 362 207 2	1 362 162 9	
Incremental encoder DC 5 V voltage supply	TTL	ES1T ¹⁾	71-100	0 185 248 5	ES7C	71-132	1 362 157 2	1 362 190 4	
		ES2T ¹⁾	112-132S	0 185 460 7	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV1T ¹⁾	71-132ML	0 185 708 8	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV1T ¹⁾	160-225	0 185 708 8	EG7C	160-225	1 362 207 2	1 362 162 9	
		EV2T ¹⁾	71-132ML	0 187 928 6	ES7C	71-132	1 362 157 2	1 362 190 4	
		EV2T ¹⁾	160-225	0 187 928 6	EG7C	160-225	1 362 207 2	1 362 162 9	
Incremental encoder DC 24 V voltage supply	TTL	ES1R	71-100	0 186 060 7	ES7R	71-132	1 362 158 0	1 362 191 2	
		ES2R	112-132S	0 186 061 5	ES7R	71-132	1 362 158 0	1 362 191 2	
		EV1R:	71-132ML	0 185 711 8	ES7R	71-132	1 362 158 0	1 362 191 2	
		EV1R:	160-225	0 185 711 8	EG7R	160-225	1 362 209 9	1 362 163 7	
		EV2R	71-132ML	0 187 925 1	ES7R	71-132	1 362 158 0	1 362 191 2	
		EV2R	160-225	0 187 925 1	EG7R	160-225	1 362 209 9	1 362 163 7	
Absolute encoder	SSI	AV1Y	71-132ML	0 198 889 1	AS7Y ²⁾	71-132	1 362 159 9	1 362 192 0	
		AV1Y	160-225	0 198 889 1	AG7Y ²⁾	160-225	1 362 210 2	1 362 164 5	
Absolute encoder	Hiperface®					W encoder			
		AS3H	71-100	0 188 000 4	AS7W ^{2) 3)}	71-132	1 362 160 2	1 362 193 9	
		AS4H	112-132S	0 188 001 2	AS7W ^{2) 3)}	71-132	1 362 160 2	1 362 193 9	
		AV1H	71-132ML	0 187 189 7	AS7W ^{2) 3)}	71-132	1 362 160 2	1 362 193 9	
		AV1H	160-225	0 187 189 7	AG7W ^{2) 3)}	160-225	1 362 212 9	1 361 166 1	
		AV6H	71-132ML	0 594 513 5	AS7W ^{2) 3) 4)}	71-132	1 362 160 2	1 362 193 9	
						Built-in encoder			
Proximity sensor	HTL	NV11/21	71-132S	Selection via Configurator	EI71	71-132	Selection via Configurator	Selection via Configurator	
		NV12/22	71-132S		EI72	71-132			
		NV16/26	71-132S		EI76	71-132			
		–	–		EI7C	71-132			

- NOTICE:** In case of DC 5 V power supply, a DC 5 V signal level is issued. In case of DC 12 V power supply, a DC 12 V signal level is issued. This could damage the TTL input of the encoder evaluation. When employing the E.7C as E..T encoder, you must use a cable with a sense line.
- Note that you need the latest unit firmware and the current version of MOVITOOLS® MotionStudio to startup and evaluate the encoders A.7W and A.7Y.
- The A.7W encoders have a different identification compared to A.7H, and can be started up once the Hiperface® interface in the inverter has been adapted. This adaptation has been carried out for MOVIDRIVE® as of firmware 1 822 091 6.11.
- Only available as of version 01/2010