

Ready-to-connect Units	EPOS4 Compact 24/1.5		EPOS4 Compact 50/5		EPOS4 Compact 50/8		EPOS4 Compact 50/15		EPOS4 50/5 (546047)	EPOS4 70/15 (594385)
	CAN (546714)	EtherCAT (628092)	CAN (541718)	EtherCAT (628094)	CAN (520885)	EtherCAT (605298)	CAN (520886)	EtherCAT (605299)		
 for comparison purposes: US Half Dollar coin (Ø30.6 mm)										
<b>Communication Interfaces</b>										
CANopen Slave	max. 1 Mbit/s	—	max. 1 Mbit/s	—	max. 1 Mbit/s	—	max. 1 Mbit/s	—	max. 1 Mbit/s	max. 1 Mbit/s
CANopen Application Layer and Communication Profile	CiA 301	—	CiA 301	—	CiA 301	—	CiA 301	—	CiA 301	CiA 301
CANopen Layer Setting Services and Protocol (LSS)	CiA 305**	—	CiA 305**	—	CiA 305**	—	CiA 305**	—	CiA 305**	CiA 305**
CANopen Device Profile Drives and Motion Control	CiA 402	—	CiA 402	—	CiA 402	—	CiA 402	—	CiA 402	CiA 402
USB 2.0 / USB 3.0	Full speed									
Gateway function USB-to-CAN	✓	—	✓	—	✓	—	✓	—	✓	✓
RS232	max. 115'200 bit/s	—	max. 115'200 bit/s	—	max. 115'200 bit/s	—	max. 115'200 bit/s	—	max. 115'200 bit/s	max. 115'200 bit/s
Gateway function RS232-to-CAN	✓	—	✓	—	✓	—	✓	—	✓	✓
EtherCAT Slave	—	✓	—	✓	—	✓	—	✓	✓ (a)	✓ (a)
IEC 61158 Digital data communication for measurement and control Fieldbus for use in industrial control systems	—	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)	—	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)	—	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)	—	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)	Type 12 (EtherCAT) max. 100 Mbit/s (100 Base Tx)
IEC 61800-7 Generic interface and use of profiles for power drive systems	—	Profile type 1 (CiA 402)	—	Profile type 1 (CiA 402)	—	Profile type 1 (CiA 402)	—	Profile type 1 (CiA 402)	Profile type 1 (CiA 402)	Profile type 1 (CiA 402)
CAN application layer over EtherCAT (CoE)	—	✓	—	✓	—	✓	—	✓	✓	✓
File transfer over EtherCAT (FoE)	—	✓	—	✓	—	✓	—	✓	✓	✓
Distributed clocks support	—	✓	—	✓	—	✓	—	✓	✓	✓
Cyclic modes support cycle times down to...	—	1 ms	—	1 ms	—	1 ms	—	1 ms	1 ms	1 ms
Process data	—	PDO mapping (Variable)	—	PDO mapping (Variable)	—	PDO mapping (Variable)	—	PDO mapping (Variable)	PDO mapping (Variable)	PDO mapping (Variable)
<b>Motors</b>										
Brushed DC motors up to (continuous / max.)	36 W / 108 W	36 W / 108 W	250 W / 750 W	250 W / 750 W	400 W / 1'500 W	400 W / 1'500 W	750 W / 1'500 W	750 W / 1'500 W	250 W / 750 W	1'050 W / 2'100 W
Brushless EC motors (BLDC) up to (continuous / max.)	36 W / 108 W	36 W / 108 W	250 W / 750 W	250 W / 750 W	400 W / 1'500 W	400 W / 1'500 W	750 W / 1'500 W	750 W / 1'500 W	250 W / 750 W	1'050 W / 2'100 W
<b>Sensors (Feedback)</b>										
Digital Hall sensors (EC motors)	✓									
Digital incremental encoder (2-/3-channel, single-ended or differential)	✓									
Analog incremental encoder (3-channel, sin/cos, differential)	✓									
SSI absolute encoder (configurable)	✓									
BiSS C absolute encoder (configurable)	—	—	—	—	—	—	—	—	✓ (a)	✓ (a)
EnDat 2.2 absolute encoder (configurable)	—	—	—	—	—	—	—	—	✓ (a)	✓ (a)
<b>Commutation</b>										
Digital Hall sensors	✓									
Digital Hall sensors + digital incremental encoder	✓									
Digital Hall sensors + analog incremental encoder	✓									
Digital Hall sensors + absolute encoder	✓									
Absolute encoder	✓									

