



Stepper Motor Controller & Driver	IKS28-12E	IKS42-14SE	IKS60-14SE	IKS-16	IKS-24S	IKS-32SEAL	IKS-34S	IKS-61SA
Stepper Motor Type	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar	2-phase, bipolar
No of Motors	1	1	1	1	2	3	3	6
Motor Supply (nominal)	24 V	24 V	48V	48V	24 V	24 V	24 V	24 V
Controller Supply (nominal)	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Phase Current, max. (rms, continuous)	1,4 A	2,2 A	2,8 A	4,8 A	2,2 A	1,4 A	2,2 A	1,4 A (2,8 A opt.)
Phase Current, max. (peak)	2 A	2,8 A	4,2 A	6 A	3,1 A	2 A	3,1 A	2 A (4 A opt.)
Motor Mountable	NEMA11 28 x 28 mm	NEMA17 42 x 42 mm	NEMA24 60 x 60 mm	-	-	-	-	-
Board Size					85 x 160 mm	100 x 160 mm	85 x 189 mm	
Control Type	open loop	open loop	open loop	open loop + encoder	open loop	open loop + encoder	open loop	open loop
Stand Alone & Remote Control	X	X	X	X	X	X	X	X
MotionController:	X	X	X	X	X	X	X	X
Speed and Position Control								
Acceleration Ramp	linear	linear	linear	linear, SixPoint™	linear	linear	linear	linear
Step/Direction Input	-	-	-	-	-	-	-	-
RS485	JST	JST	JST	screw connector	JST	JST	JST	JST
RS232	-	-	-	-	-	JST	-	JST
CAN	-	optional	-	-	JST	-	JST	D-SUB 9 F
USB	-	mini	mini	micro	mini	type B	mini	mini
LAN	-	-	-	-	-	RJ45	-	-
Home-/Referece Switch Inputs	2x 24 V	2x 24 V	2x 24 V	2x 24 V	4x 24 V	6x 24 V	6x 24 V	12x 24 V
General Purpose IN (digital)	2x 24 V	2x 24 V	2x 24 V	3x 24 V	8x 24 V	8x 24 V	8x 24 V	6x 24 V
General Purpose OUT (digital)	2x OD 24 V	2x OD 24 V	2x OD 24 V	2x OD 24 V	8x OD 24 V	8x OD 24 V	8x OD 24 V	8x OD, 20 mA
General Purpose IN (analog)	-	1x 0...5 V	2x 0...10 V	3x 0...10 V	4 x 0...10 V	8x 0...10 V	4x 0...10 V	6x 0...5 V 2x 0...10 V
ABN-Encoder Interface	-	-	-	5V differential	-	5V differential	-	-
MicrtoSteps, max.	256	256	256	256	256	256	256	256
StallGuard™	X	X	X	X	X	X	X	X
CoolStep™	X	X	X	X	X	X	X	X
SpreadCycle™ Chopper	X	X	X	X	X	X	X	X
StealthChop™ (NoNoise)	-	-	-	StealthChop2™	-	-	-	-
TMCL protocol & commands	X	X	X	X	X	X	X	X
TMCL protocol emulation	TMCM-1021	TMCM-1140 TMCM-1141	TMCM-1160	TMCM-1260	TMCM-1110	TMCM-3110	TMCM-1110	TMCM-6110
CANopen protocol	-	under development	-	-	-	-	-	optional
Order Code	IKS-28-12E	IKS42-14SE	IKS60-14SE	IKS-16	IKS-24S	IKS-32SEAL	IKS-34S	IKS-61SA
Order Options	-	- RS232 - CAN - NoEnc	-	-DIN (DIN-rail box)	-	-NoLAN	-	-4A (4A Peak) -12V (all IOs 12 V) -CANopen
Related Cable Loom	IKS28-Kabel	IKS42-Kabel	IKS60-Kabel	-	IKS-24S-Kabel	IKS-32SEAL-Kabel	IKS-34S-Kabel	IKS-61SA-Kabel