

SANMOTION

New Product Information

AC Servo Drive with CANopen Interface

SANYO DENKI EUROPE SA. is pleased to introduce their new «SANMOTION R» CANopen AC servo drives, which comply with DS301 (Version 4.02) and DSP402 standards. Available in both 200VAC and 400VAC version, this serie can make the interpolation between the position input commands as well as the synchronization between several axes. This new serie is ideal for networking applications such as handling robots.



Specifications :

- **Main input voltage** : 1x or 3x200~230VAC & 3x380~480VAC +10,-15% 50/60Hz +/-3%
- **Control input voltage** : 1x200~230VAC +10,-15% 50/60Hz +/-3% or 24VDC +/-15%
- **Power capacity** : 6 models up to 100 Amps to be combined with servo motors from 20W to 7kW
- **4 Modes of Operation** : Homing Mode, Profile Velocity Mode, Profile Position Mode and Interpolated Position Mode
- **R-Setup Software** : Parameters setting, Auto-tuning, I/O configuration, Oscilloscope, Alarm History, Test mode
- **Standards** : CE, UL and cUL

CANopen interface specifications	Bus Connection, Medium	CAN-Standard ISO-11898 (High-speed CAN)	
	CANopen specification	CiA DS301 Version 4.02	
	Device Profile	CiA DSP402 (drive and motion control) version 2.0	
	Bit Rate	up to 1Mbps (selected by R-setup software)	
	Max. nodes per segment	127 (selected by rotary switch or R-setup software)	
	Connector	RJ-45 type modular connector (2 ports)	
	Max. Bus Length	25 m (for 1 Mbps)	
	Communication Objects	SDO (Service Data Object) EMCY (Emergency) SYNC (Synchronization Object) Heartbeat	PDO (Procees Data Object) NMT (Network Management) Node Guarding
	PDO Transfer Modes	Synchronous	Asynchronous
	Modes of Operation	Homing Mode (h.m) Profile Velocity Mode (p.v)	Profile Position Mode (p.p) Interpolated Position Mode (i.p)

Product Advantages :

1) High Performance :

On the basis of performance, CANopen is the ideal bus for machines and installations. Its specific advantages are : a high fault tolerance (reduced EMC problems), a high flexibility (transmission types / 4 operation modes / priority message management), a high data throughput and many detailed diagnostic options (error control / emergency / object dictionary).

2) Compact Size / Wide Range of Motor Power / Easy set-up / Improved Precison :

A wide range of motor power is covered from 20W to 7kW in a very compact package as heigth and depth are just same as standard analog AC servo drives. The servo drives integrate functions such as high level of auto-tuning, vibration suppression control and disturbance suppression for easy set-up and improved precision.

3) Cost Advantages :

CANopen chips are produced in very large quantities and installation costs (both for equipments and personnel) are about 20% less expensive than other fielbuses.

Target Applications :

Medical equipments, handling, pick & place, robots, printing, packaging, labeling and semiconductor manufacturing equipments.

For further information on Sanyo Denki «SANMOTION R » CANopen AC servo drives, please contact us at +33 1 48 63 26 61 or email us at info@sanyodenki.eu.