

ServoOne 4 to 72 A: SIL 3 In-drive safety PLC

With regard to new safety solutions for machines we tend to think of safety PLCs replacing conventional permanent-wired safety relays. But a much more important factor in improving productivity and cost-effectiveness is the availability of Safe Motion functions. The ServoOne, with its Safe Motion architecture, combines the advantages of the safety PLCs with Safe Motion control.

The 'in-drive safety control' concept enables all new safety functions (STO, SS1, SS2, SOS, SLS, SLI, SDI, SLP, SLT etc.) to be implemented. The heart of the safety control system is the 'Safe Monitoring PLC' programming interface. It is used to configure, parameterize and program your machine safety application. The integrated safety control supports evaluation of familiar, safe capture units such as: emergency stops, permission switches, mode selector switches, guard door switches, deadlocks, walk-on mats, light grids, light curtains, laser scanners and even two-handed controls.

What are the advantages for machinery manufacturers?

- The various simple safety switches in the machines can be eliminated, as the drive's safety control performs those functions.
- The safety control is integrated into the switch cabinet on installation of the drive controller, thereby shortening assembly time and saving space inside the cabinet.
- There is no unnecessary parallel wiring work, as there is safe cross-communication between the individual drive controllers, by which information is interchanged between the drive controller safety functions.
- Engineering costs are reduced, as the complete machine safety is mapped in one program which can be adapted very easily to different machine types.
- Commissioning and validation costs are kept low, because the complete machine safety solution can be validated by way of the Safety Master drive.

Regardless of whether you are building simple or complex machines - the advantages of the new solution are unique.

Summing up, it can be said that the motion automation and the safety monitoring form a single unit, as safety on the machine can ultimately only be guaranteed by way of the drive.

Working on machines at reduced safe process speeds will become more and more common,

and in the medium term will become standard practice. Regardless of whether you need to assign functional safety to one movement or all the movements of your machine – anyone looking to improve productivity and cost-effectiveness will want to find out about this new solution. We will be glad to help you. Visit us at SPS/IPC/DRIVES (hall 4, stand 246) or request an information pack on the 'Scaleable safety and motion solution'.



Contact: Ingrid Becker Tel: 06441 966-151 E-mail: ingrid.becker@lt-i.com