

Motion PROFIsafe control word

Mtn integ STW

Bit Nr.	Motion PROFIsafe control word	r9720
[2855.3] → 0	1 = STO deselection	r9720.0 [2855.3]
[2855.3] → 1	1 = SS1 deselection	r9720.1 [2855.3]
[2855.3] → 2	1 = SS2 deselection	r9720.2 [2855.3]
[2855.3] → 3	1 = SOS deselection	r9720.3 [2855.3]
[2855.3] → 4	1 = SLS deselection	r9720.4 [2855.3]
	5 Reserved	
	6 Reserved	
[2855.3] → 7	1 = Acknowledgement	r9720.7 [2855.3]
	8 Reserved	
[2855.3] → 9	1 = SLS selection bit 0 active	r9720.9 [2855.3]
[2855.3] → 10	1 = SLS selection bit 1 active	r9720.10 [2855.3]

Motion PROFIsafe status word

Mtn integ ZSW

Bit Nr.	Motion PROFIsafe status word	r9722
[2855.6] → 0	1 = STO active	r9722.0 [2855.6]
[2855.6] → 1	1 = SS1 active	r9722.1 [2855.6]
[2855.6] → 2	1 = SS2 active	r9722.2 [2855.6]
[2855.6] → 3	1 = SS1 supported	r9722.3 [2855.6]
[2855.6] → 4	1 = SLS active	r9722.4 [2855.6]
	5 Reserved	
	6 Reserved	
[2855.6] → 7	1 = Internes Ereignis	r9722.7 [2855.6]
	8 Reserved	
[2855.6] → 9	1 = active SLS stage, bit 0	r9722.9 [2855.6]
	10 Reserved	
[2855.6] → 11	1 = SOS selected	r9722.11 [2855.6]
	12 Reserved	
	13 Reserved	
	14 Reserved	
[2855.6] → 15	SSM (speed below limit)	r9722.15 [2855.6]

1

2

3

4

5

6

7

8

DO: SERVO, VECTOR

fp_2840_01_eng.vsd

Function diagram

Safety Integrated - Extended Functions, Control word and Status word

31.05.07 V02.05.01

SINAMICS S

- 2840 -