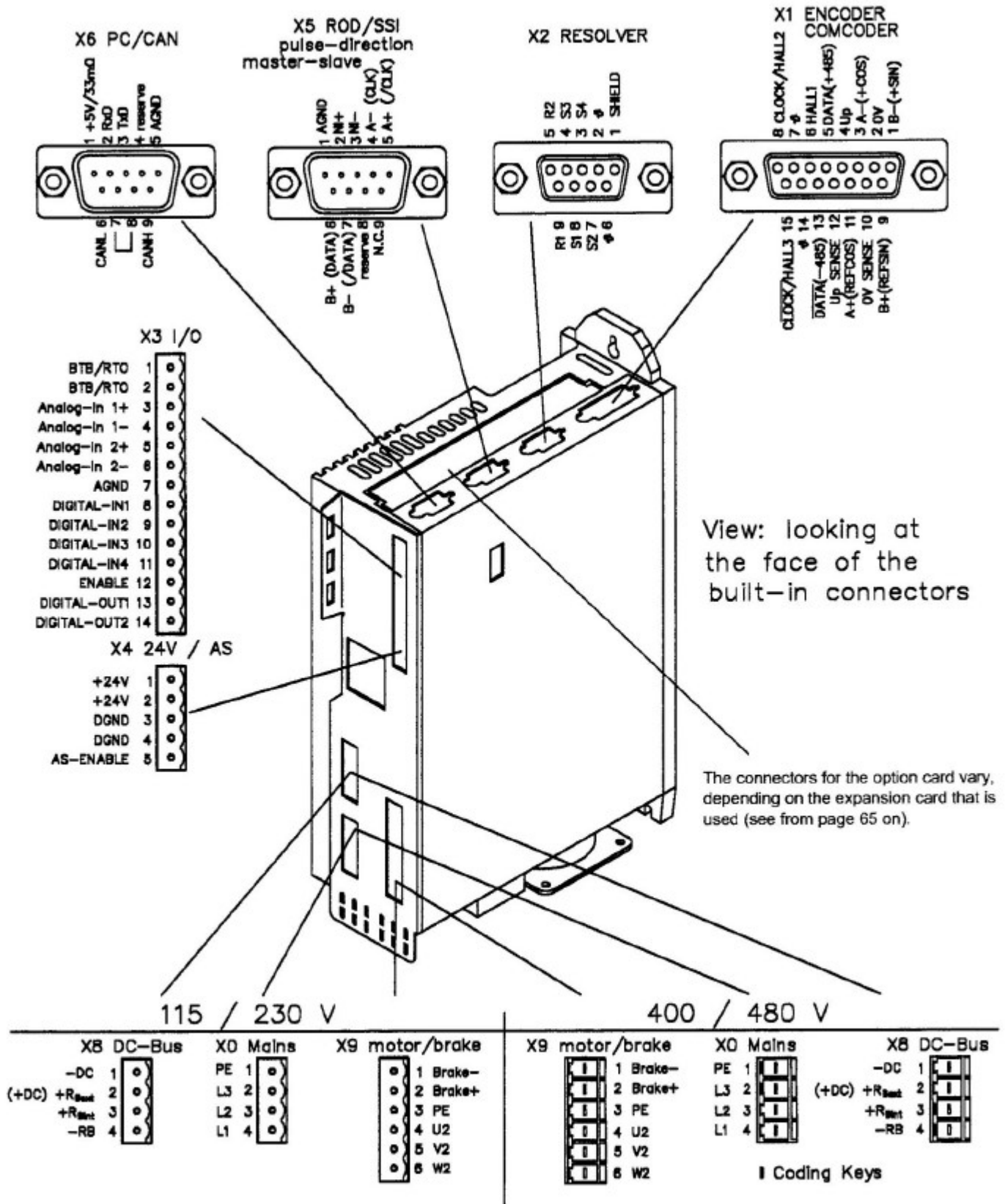


Digital Servo Amplifier

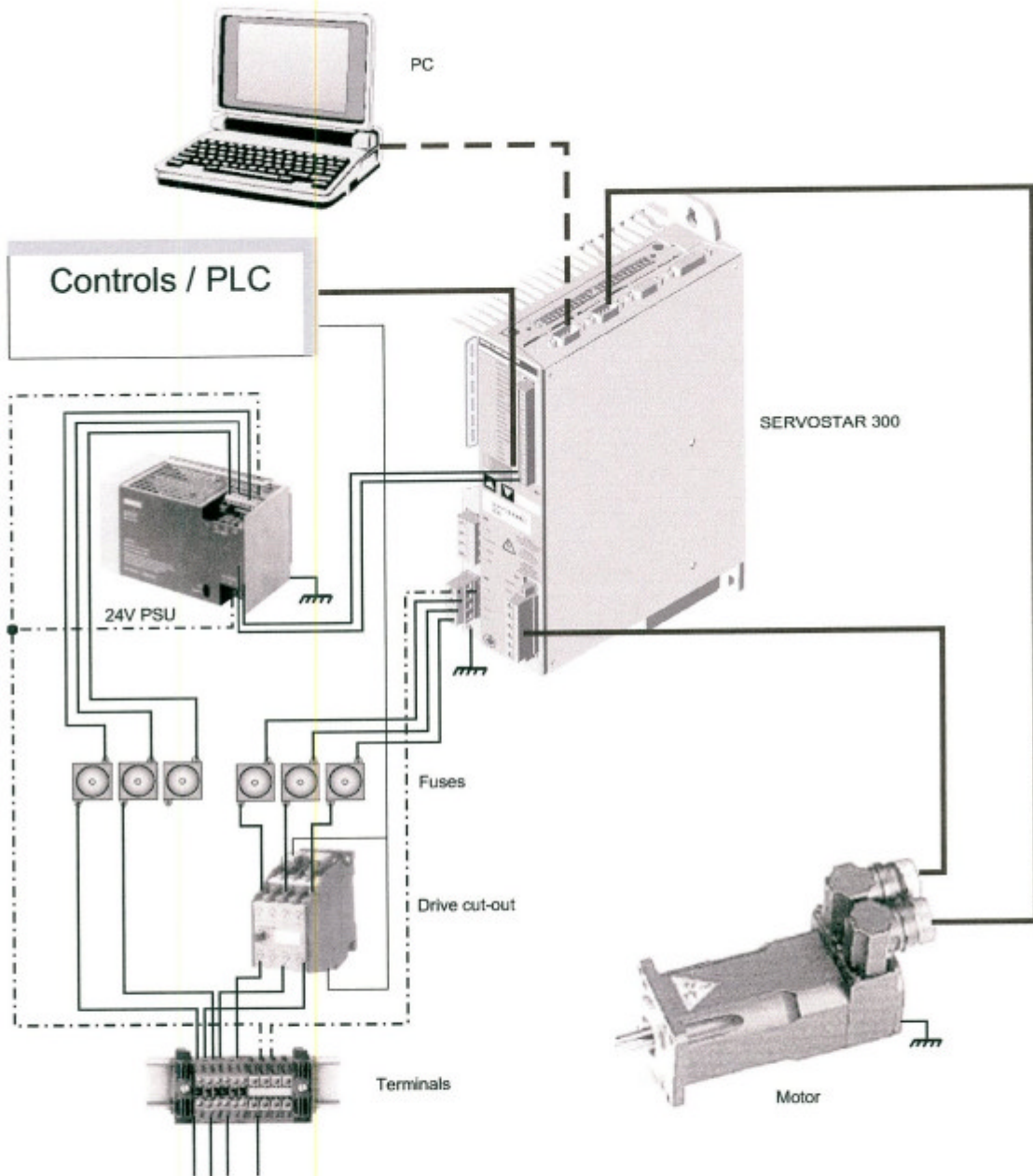
SERVOSTAR[®] 300



2.3.2 Connector assignments for SERVOSTAR 300



1.6 Components of a servo system



1.7.2 Technical data for 400/480 V

		SERVOSTAR		
Rated data	DIM	341	343	346
Rated supply voltage (grounded supply)	V~	3 x 208V _{-10%} ... 480V ^{+10%} , 50/60 Hz		
Rated installed power for S1 operation	kVA	1,2	2,5	5
Rated DC-link voltage	V=	300- 675		
Rated output current (rms value, ± 3%)				
at 3x208V	Arms	2	5	6
at 3x230V	Arms	2	5	6
at 3x400V	Arms	1,5	4	6
at 3x480V	Arms	1,5	3	6
Peak output current (max. approx. 5s, ± 3%)				
at 3x208V	Arms	4,5	7,5	12
at 3x230V	Arms	4,5	7,5	12
at 3x400V	Arms	4,5	7,5	12
at 3x480V	Arms	4,5	7,5	12
Clock frequency of the output stage	kHz	8 (16*)		
Technical data for regen circuit	—	⇒ p.23		
Threshold for overvoltage switch-off	V	455 / 800 / 900		
Motor inductance min.				
at 3x208V	mH	7,7	4,6	2,9
at 3x230V	mH	8,5	5,1	3,2
at 3x400V	mH	14,8	8,9	5,6
at 3x480V	mH	17,8	10,7	6,7
Motor inductance max.	mH	Consult our customer support		
Form factor of the output current (rated conditions, min. load inductance)	—	1.01		
Bandwidth of subordinate current controller	kHz	> 1.2		
Residual voltage drop at rated current	V	5		
Quiescent dissipation, output stage disabled	W	12		
Dissipation at rated current (incl. PSU losses, without regen dissipation)	W	40	60	90
Mechanical				
Weight	kg	approx. 2,7		
Height, without connectors	mm	275	278	
Width	mm	70		
Depth, without connectors	mm	171		
Depth, with connectors	mm	< 235		

* = at reduced current

1.7 Technical data

1.7.1 Technical data for 115/230 V

		SERVOSTAR		
Rated data	DIM	303	306	310
Rated supply voltage (grounded supply)	V~	1 x 110V, 3 x 115V _{-10%} ... 230V _{+10%} , 1 x 240V 50/60 Hz		
Rated installed power for S1 operation	kVA	1.1	2.4	4
Rated DC-link voltage	V=	135-450		
Rated output current (rms value, ± 3%)				
at 1x110V	Arms	3	3	3
at 3x115V	Arms	3,5	8	10
at 3x230V	Arms	3	6	10
at 1x230/240V	Arms	3	4	4
Peak output current (rated current x 2 for approx. 5s, ± 3%)				
at 1x110V	Arms	5	5	5
at 3x115V	Arms	9	15	20
at 3x230V	Arms	9	15	20
at 1x230/240V	Arms	9	9	9
Clock frequency of the output stage	kHz	8 (16*)		
Technical data for regen circuit	—	▷ p.23		
Threshold for overvoltage switch-off	V	235 / 455		
Motor inductance min.				
at 1x110V	mH	3,7	3,7	3,7
at 3x115V	mH	2,1	1,3	1,0
at 3x230V	mH	4,3	2,6	1,9
at 1x230/240V	mH	4,3	4,3	4,3
Motor inductance max.	mH	Consult our customer support		
Form factor of the output current (rated conditions, min. load inductance)	—	1.01		
Bandwidth of subordinate current controller	kHz	> 1.2		
Residual voltage drop at rated current	V	4		
Quiescent dissipation, output stage disabled	W	12		
Dissipation at rated current (incl. PSU losses, without regen dissipation)	W	35	60	90
Mechanical				
Weight	kg	approx. 2,6		
Height, without connectors	mm	275	279	
Width	mm	70		
Depth, without connectors	mm	171		
Depth, with connectors	mm	< 200		

*at reduced current