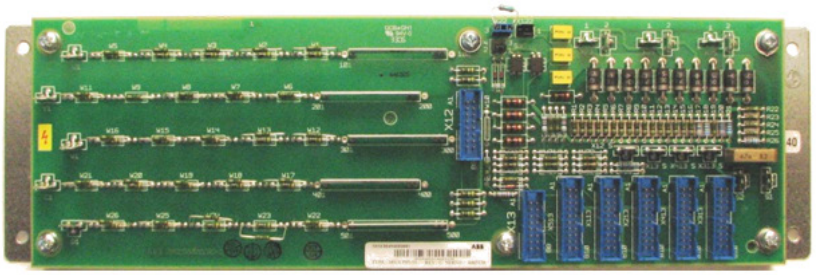
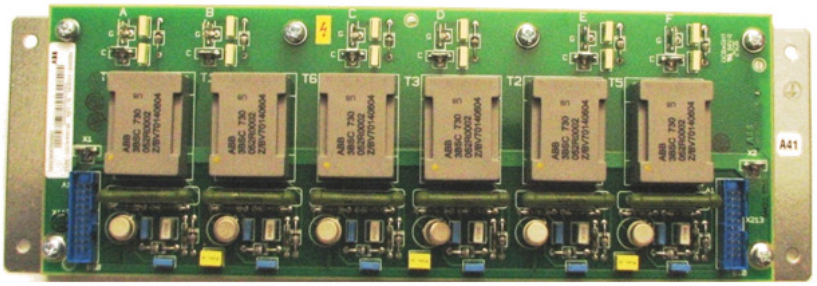
DCS800

Service Manual
DCS800 Drives (20 A to 5200 A)







Item 8.09
Parts for 12-pulse, supply voltage >= 800 VAC, hardparallel D7P and galvanic isolation

8.09	Parts for 12-pulse, supply voltage >= 800 VAC, hardparallel D7P and galvanic isolation				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Current measurement aid	1	1	3ADT220090R0022	SDCS-CMA-2	For D5 - D7 (12-pulse, hardparrallel)
Insulation monitor	1	1	3AFE68335256	IRDH 275	Inside cabinet, 1 - 990 kOhm
Insulation monitor	1	1	3ADV050058P0007	IRDH 375	Door mounted, 1 - 990 kOhm
Voltage adaption for IRDH	1	1	DCA0019711P0001	AGH 204 S	For IRDH >= 690 VAC, 6-pulse
Voltage adaption for IRDH	1	1	3ADV050058P0002	AGH 150 W-4	For IRDH >= 690 VAC, 12-pulse
DC-DC transducer (Knick) A92	1	1	3ADN260008P0001	P42000D3-0111	For U >= 690 VAC, 12-pulse, replaches Knick 8680 A1/A92
High volt. transformer T90	1	1	3ADT745047P0001	T 90, 500 -1200 VAC	For U >= 690 VAC, 12-pulse
High volt. fuses for U >= 750 VA	3	3	3ADV050092P0015	CC 1051CP 10A/1000V	3 for T90 and capacitors
High volt. fuses for U >= 750 VA	2	2	3ADV050092P0017	CC 1551CP 10A/1500V	2 for A92
Pow er Interface U>=750 VAC	1	1	3ADT780007R0002	SDCS-PIN-5x-1190 meas.	Special test procedure & modified
Hardparrallel board 1	1	1	3ADT220090R0031	SDCS-PAR-1	Hardparallel master
Hardparrallel board 2	1	1	3ADT220090R0032	SDCS-PAR-2	Hardparallel slave

Item 10.00 to 29.00
Modules D1 - D4, 20 A - 1000 A, 400 V, 525 V and 600 V

10.00	Common parts for modules D1 - D4, 20 A - 1000 A				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Control board	1	1	3ADT313900R1501	SDCS-CON-4	Replaces 3ADT313900R1001
Interface board and field supply	1	1	3ADT314100R1001	SDCS-PIN-4	OnBoard field up to 525 VAC
Fuses on SDCS-PIN-4	3	3	3ADC770032P0025	KTK 25	25 A / 600 V
Half controlled bridge block	1	1	3ADC340091R0001	VVZF 70-16xxx	OnBoard field up to 525 VAC
Temperatur sensor (D1and D2)	1	1	3ADT710005P0001	KTY10-6-M4/250mm	20 A - 260 A, cable 250 mm
Temperatur Sensor (D3 and D4)	1	1	3ADT710005P0002	KTY10-6-M4/400mm	315 A - 1000 A, cable 400 mm

	Module contains:	2-Q	4-Q
11.00	DCS800-S01-0020-04/05 & DCS800-S02-0025-04/05 (400 V - 525 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340063P0001	SKKT27B/xxx	MCC 26 - 16 xxx
Semiconductor fuses	3	3	3ADT730004R0004	UR 50 A / 660 V	Blade- or knife fuse
Semiconductor fuses (as field)	3	3	3ADV050169P0050	UR 50 A / 600 V	When used as field in D6 or D7 cabinets

	Module contains:	2-Q	4-Q
12.00	DCS800-S01-0045-04/05 & DCS800-S02-0050-04/05 (400 V - 525 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340063P0001	SKKT27B/xxx	MCC 26 -16 xxx
Semiconductor fuses	3	3	3ADT730004R0005	UR 63 A / 660 V	Blade- or knife fuse
Cooling fan 115 V, 50/60 Hz	2	2	3ADT754014P0001	CN2B2	4715 MS-12T-B5Axxx
Semiconductor fuses (as field)	3	3	3ADV050169P0080	UR 80 A / 600 V	When used as field in D6 or D7 cabinets

	Module contains:	2-Q	4-Q
13.00	DCS800-S01-0065-04/05 & DCS800-S02-0075-04/05 (400 V - 525 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340067P0001	SKKT42B/xxx	MCC 44 -16 xxx
Semiconductor fuses	3	3	3ADT730004R0007	UR 125 A / 660 V	Blade- or knife fuse
Cooling fan 115 V, 50/60 Hz	2	2	3ADT754014P0001	4715 MS-12T-B5Axxx	CN2B2
Semiconductor fuses (as field)	3	3	3ADV050169P0125	UR 125 A / 600 V	When used as field in D6 or D7 cabinets

	Module contains:	2-Q	4-Q

26.00	DCS800-S01-0900-04/05 & DCS800-S02-1000-04/05 (400 V - 525 V)				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC3400099P0001	MT3-595-xxx	TT 570 Nxxx
Semiconductor fuses	3	3	3ADT730004R0016	UR 1250 A / 660 V	Screw type fuse
Cooling fan 230 V, 50/60 Hz	1	1	3ADT754017P0001	W2E250-HL06-10	
Fuses as Enclosed Converter	3	3	3ADV050092P0020	170M6016	Fuses as Enclosed Converter with OESA

	Module contains:	2-Q	4-Q

27.00	DCS800-S01-0610-04/05 & DCS800-S02-0680-04/05 +S171 (400 V - 525 V)				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340103P0001	MCC 501 - xxx	TT 425 Nxxx
Semiconductor fuses	3	3	3ADT730004R0015	UR 900 A / 660 V	Screw type fuse
Cooling fan 115 V, 50/60 Hz	1	1	3ADT754012P0001	W2E 200-HH86-14	(+S171)
Fuses as Enclosed Converter	3	3	DCA0012724P0001	170M6813	Fuses as Enclosed Converter with OESA

	Module contains:	2-Q	4-Q

28.00	DCS800-S01-0740-04/05 & DCS800-S02-0820-04/05 +S171 (400 V - 525 V)				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340099P0001	MT3-595-xxx	TT 570 Nxxx
Semiconductor fuses	3	3	3ADT730004R0015	UR 900 A / 660 V	Screw type fuse
Cooling fan 115 V, 50/60 Hz	1	1	3ADT754012P0001	W2E 200-HH86-14	(+S171)
Fuses as Enclosed Converter	3	3	DCA0012724P0001	170M6813	Fuses as Enclosed Converter with OESA

	Module contains:	2-Q	4-Q

29.00	DCS800-S01-0900-04/05 & DCS800-S02-1000-04/05 +S171 (400 V - 525 V)				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor modules	3	6	3ADC340099P0001	MT3-595-xxx	TT 570 Nxxx
Semiconductor fuses	3	3	3ADT730004R0016	UR 1250 A / 660 V	Screw type fuse
Cooling fan 115 V, 50/60 Hz	1	1	3ADT754015P0001	W2E250-HL08-09	(+S171)
Fuses as Enclosed Converter	3	3	3ADV050092P0020	170M6016	Fuses as Enclosed Converter with OESA

Item 30.00 to 36.00
Modules D5, 900 A - 2000 A, 400 V, 525 V, 600 V and 690 V

30.00	Common parts for modules D5, 900 A - 2000 A				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Control board	1	1	3ADT313900R1501	SDCS-CON-4	Replaces 3ADT313900R1001
Power supply board	1	1	3ADT315100R1012	SDCS-POW-4-SD	Replaces SDCS-POW-4
Puls transformer board	1	2	3BSE004939R1012	SDCS-PIN-48-SD	Replaces SDCS-PIN-41 / SDCS-PIN-48
Power interface board	1	1	3ADT220090R0006	SDCS-PIN-51	
Temperatur sensor (R57)	1	1	3ADT710003P0001	KTY 2K-M4-800	
Current transformer 2500 / 1 A	2	2	3ADT751010P0001	LT2032 2500/1A	T51 / T52 for D5 and D6
Cooling fan	1	1	3ADT754018P0001	D2E 160-AH02-15	

Item 40.00 to 49.00
Modules D6, 1900 A - 3000 A, 400 V, 500 V, 600 V, 690 V and 800 V

40.00	Common parts for modules D6, 1900 A - 3000 A				
DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Control board	1	1	3ADT313900R1501	SDCS-CON-4	Replaces 3ADT313900R1001
Pow er supply board	1	1	3ADT315100R1012	SDCS-POW-4-SD	Replaces SDCS-POW-4
Pow er interface board	1	1	3ADT220090R0006	SDCS-PIN-51	
Air Flow detector (P1)	1	1	DCF1066659P0001	P 233A-4-AHC	
Temperatur Sensor (R57)	1	1	DCA0012139P0004	KTY 10-6 M4	Cable 1200 mm
Current transformer 2500 / 1 A	2	2	3ADT751010P0001	LT2032 2500/1A	T51 / T52 for D5 and D6

	Module contains:	2-Q	4-Q
41.00	DCS800-S01-1900-08 & DCS800-S02-1900-08 (800 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor	6	12	3ADC340081P0001	T 1329Nxxx	Original thyristor type
Puls transformer board	1	2	3BSE004939R1012	SDCS-PIN-48-SD	Replaces SDCS-PIN-41 / SDCS-PIN-48
Semiconductor fuses	12	12	3ADC770009P0007	UR 630 A / 1250 V	Screw type fuse (double fuses)
Cooling fan	1	1	3ADT754008P0001	GR31M-..(500V)	400 V - 500 V / 50/60 Hz

	Module contains:	2-Q	4-Q
41.00a	DCS800-S01-1900-08a & DCS800-S02-1900-08a (800 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor	6	12	3ADC340098P0001	T 1xxx-24	Second thyristor type
Puls transformer board	1	2	3BSE004939R1012	SDCS-PIN-48-SD	Replaces SDCS-PIN-41 / SDCS-PIN-48
Semiconductor fuses	12	12	3ADC770009P0007	UR 630 A / 1250 V	Screw type fuse (double fuses)
Cooling fan	1	1	3ADT754008P0001	GR31M-..(500V)	400 V - 500 V / 50/60 Hz

	Module contains:	2-Q	4-Q
42.00	DCS800-S01-2050-05 & DCS800-S02-2050-05 (500 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor	6	12	3ADC340081P0001	T 1329Nxxx	Original thyristor type
Puls transformer board	1	2	3BSE004939R1012	SDCS-PIN-48-SD	Replaces SDCS-PIN-41 / SDCS-PIN-48
Semiconductor fuses	6	6	3ADC770010P0011	UR 1500 A / 660 V	Screw type fuse
Cooling fan	1	1	3ADT754008P0001	GR31M-..(500V)	400 V - 500 V / 50/60 Hz

	Module contains:	2-Q	4-Q
42.00a	DCS800-S01-2050-05a & DCS800-S02-2050-05a (500 V)		

DESCRIPTION	2-Q	4-Q	CODE	TYPE/DATA	NOTES
Thyristor	6	12	3ADC340098P0001	T 1xxx-24	Second thyristor type
Puls transformer board	1	2	3BSE004939R1012	SDCS-PIN-48-SD	Replaces SDCS-PIN-41 / SDCS-PIN-48
Semiconductor fuses	6	6	3ADC770010P0011	UR 1500 A / 660 V	Screw type fuse
Cooling fan	1	1	3ADT754008P0001	GR31M-..(500V)	400 V - 500 V / 50/60 Hz