

Renewal Parts

Current Rated, Series A Drives, 3.6A to 345A, 50/60 Hz, 230, 380, 415 & 460 Volt AC Inputs.**Parts Common to All Ratings**

Description	Part Number	Quantity per Drive	Supersedes
Main Control Board (All boards refer to "spare parts kit" number label on board. And all are downward compatible.)			
Firmware Rev. 3.01	119521	1	
Firmware Rev. 4.01	140354	1	
Firmware Rev. 4.03	144961	1	
Firmware Rev. 5.01	145048	1	
Firmware Rev. 8.02	155800	1	
Firmware Rev. 8.03	156009	1	
Firmware Rev. 8.10	185694	1	170174
Firmware Rev. 9.20	185713	1	
Firmware Rev. 10.10	194933	1	
Firmware Rev. 9.30	196259	1	Rev 10.10 194933 (Note 1)
Discrete Adapter Board 115V AC	170024	1	119712 & 145479
Discrete Adapter Board 24 VDC	170023	1	145472
Digital Reference Adapter Board	140093	1	
Digital Ref Adapt Bd (RTP only) KP13	164325	1	133496
Multi Communication Adapter Board.....	196274	1	145108,155993
ControlNet Adapter Board	KP54EN (196273)	1	185240
Node Adapter Board	148540	1	119527
Feedback Board 240V	122970	1	
Feedback Board 300-575V	122972	1	
Armature Pulse Transformer & Snubber Board.....	110996	3	
Field Pulse Transformer & Snubber Board.....	170130	1	110997
PSI Board	170948	1	119524
PSI Board Cable Connectors:			
J1, 6 Pin Cable connector	122982	1	
J10, 12 Pin Cable Connector	122983	1	
Power Supply Board Kit (Includes 2.5" and 18" cable & PCB connector)...			
Transformer, 24V Supply	122985	1	
Fuse, 600V, 25A KTK-R	101705	3	
Fuse, 250V 1 A MDL	101664	1	
Fuse, 250V, 5A Slow Blow	113829	1	
Pilot Relay.....	125928	1	
Heat Sink Thermoswitch.....	112929	1	
ACT 1, ACT2, 250:1.....	123969	2	
MOV Field 240-480V	173973	2	115549
MOV Three Phase 240-480V	115547	1	
MOV Control Power	123396	1	

Notes:

(1) 9.30 functionally identical to 10.10. ITS and DT-32 limited to three digits.

Renewal Parts

Current Rated, Series B Drives, 346A to 980A, MKVA, 50/60 Hz, 230, 380, 415 & 460 Volt AC Input**Parts Common to All Ratings**

Description	Part Number	Quantity per Drive	Supersedes
Main Control Board (All boards refer to "spare parts kit" number label on board. And all are downward compatible.)			
Firmware Rev. 3.01	119521	1	
Firmware Rev. 4.01	140354	1	
Firmware Rev. 4.03	144961	1	
Firmware Rev. 5.01	145048	1	
Firmware Rev. 8.02	155800	1	
Firmware Rev. 8.03	156009	1	
Firmware Rev. 8.10	185694	1	170174
Firmware Rev. 9.20	185713	1	
Firmware Rev. 10.10	194933	1	
Firmware Rev. 9.30	196259	1	Rev 10.10 194933 (Note 1)
Discrete Adapter Board 115V AC	170024	1	119712 & 145479
Discrete Adapter Board 24 VDC	170023	1	145472
Digital Reference Adapter Board	140093	1	
Digital Ref Adapt Bd (RTP only) KP13	164325	1	133496
Multi Communication Adapter Board.....	196274	1	145108,155993
ControlNet Adapter Board	KP54EN (196273)	1	185240
Node Adapter Board	148540	1	119527
Feedback Board 240V	122970	1	
Feedback Board 300-575V	122972	1	
Armature Pulse Transformer Board.....	126511	3	
Armature Snubber board	129844	3	
Field Pulse Transformer & Snubber Board	170131	1	110997 &155227
Power Stage Interface Board (PSI)	170950	1	126305
PSI Board Cable Connectors:			
J1, 6 Pin Cable connector	122982	1	
J10, 12 Pin Cable Connector	122983	1	
Power Supply Board Kit			
(Includes 2.5" and 18" cable & PCB connector)	142129	1	126438 (Assembly)
Transformer, 24V Supply	122985	1	
Fuse, 600V, 20A KTK-R	101669	3	
Fuse, 500V, 800A, Blade Semiconductor type	119436	6	
Fuse, 250V 1A MDL	109226	1	
Fuse, 250V, 5A Slow Blow	113829	1	
Pilot Relay	125928	1	
Cooling Fans	117475	3	
Fan Switch Kit (Includes switch and vane)	103997	3	
Fan Switch (Only)	101935	3	
Fan Switch Vane	102362	3	
Contactactor-1 Pole	172002	1	117474
SCR Field Kit, 104A, 1500V	192706	2	135110,192705
SCR, Field (Part of Kit # 192706, Order Kit)	192697	2	123119,192696
MOV Field	173973	2	115549
MOV Three Phase	115547	1	
Current Transformer (FCT) 1000:1	105061	1	
Current Transformer (ACT1-3) 1500:1	118430	3	
Inductor (CH1) 40 amp 0.11mh	129816	1	

Note: (1) 9.30 functionally identical to 10.10. ITS and DT-32 limited to three digits.

1395 Digital DC Drive

Renewal Parts

Page 8 of 19

Current Rated,(CONTINUED)

Series A Drives, 1350A & 2250A, HKVA , 50/60 Hz, 230, 380, 415, 460, 575 & 660 Volt, AC Input.

Parts Common to All Ratings

Description	Part Number	Quantity per Drive	Supersedes
Main Control Board (All boards refer to "spare parts kit" number label on board. And all are downward compatible.)			
Firmware Rev. 3.01	119521	1	
Firmware Rev. 4.01	140354	1	
Firmware Rev. 4.03	144961	1	
Firmware Rev. 5.01	145048	1	
Firmware Rev. 8.02	155800	1	
Firmware Rev. 8.03	156009	1	
Firmware Rev. 8.10	185694	1	170174
Firmware Rev. 9.20	185713	1	
Firmware Rev. 10.10	194933	1	
Firmware Rev. 9.30	196259	1	Rev 10.10 194933 (Note 1)
Discrete Adapter Board 115V AC	170024	1	119712 & 145479
Discrete Adapter Board 24 VDC	170023	1	145472
Digital Reference Board (24V DC).....	140093	1	
Digital Ref Adapt Bd (RTP only) KP13	164325	1	133496
Multi Communication Adapter Board.....	196274	1	145108,155993
ControlNet Adapter Board	KP54EN (196273)	1	185240
Node Adapter Board	148540	1	119527
SCR Firing Power Supply (4.5A @ 24 VDC)	168363	1	137875
Armature Pulse Board (Regen)	144965	4	
Armature Pulse Board (Non-Regen).....	144965	2	
Field Pulse Board	170131	1	110997
PSI Board	170952	1	144966
Power Supply Board Kit (Includes 2.5" and 18" cable & PCB connector)	142129	1	126438 (Assembly)
Fuse, Arm Bridge 900A, 700V,SPP	132650	12	
Fuse, Field Bridge 45A, 600V, LPJ	143151	1	
Fuse, Power Transformer 7A, 600V	149860	2	
Fuse, Power Transformer 8A, 600V	101698	1	
Fuse, Power Transformer 5A, 600V	125422	1	
Pilot Relay	125928	1	
SCR-Field KIT, 104A, 1500V(uses 192697 scr)	192706	2	135110(2), 192705(3)
MOV-Field.....	173973	2	115549
Current Transformer, Field	105061	1	
Current Transformer, Armature	505534	3	
Inductor, Field	109833	1	

Notes: (1) 9.30 functionally identical to 10.10. ITS and DT-32 limited to three digits.

(2) 135110 includes 123119 SCR-1200v

(3) 192705 includes 192696 SCR 1400v

1395 Digital DC Drive Renewal Parts

Page 12 of 19

Horsepower Rated Series A Drives, 40 to 100 HP, 230 Volt, 75 to 200 HP, 460 Volt,
Parts Common to All Ratings

Description	Part Number	Quantity per Drive	Supersedes
Main Control Board (All boards refer to "spare parts kit" number label on board. And all are downward compatible.)			
Firmware Rev. 3.01	119521	1	
Firmware Rev. 4.01	140354	1	
Firmware Rev. 4.03	144961	1	
Firmware Rev. 5.01	145048	1	
Firmware Rev. 8.02	155800	1	
Firmware Rev. 8.03	156009	1	
Firmware Rev. 8.10	185694	1	170174
Firmware Rev. 9.20	185713	1	
Firmware Rev. 10.10	194933	1	
Firmware Rev. 9.30	196259	1	Rev 10.10 194933 (Note 1)
Digital Reference Adapter Board	140093	1	
Discrete Adapter Board 115VAC	170024	1	119712 & 145479
Discrete Adapter Board 24V DC	170023	1	145472
Digital Ref Adapt Bd (RTP only) KP13	164325	1	133496
Multi Communication Adapter Board.....	196274	1	145108,155993
ControlNet Adapter Board	KP54EN (196273)	1	185240
Node Adapter Board	148540	1	119527
Feedback Board 230V AC	122970	1	
Feedback Board 460V AC	122972	1	
Armature Pulse Transformer and Snubber Board..	110996	3	
Mounting Hardware			
Hex Spacer.....	107955	6	
Field Pulse Transformer and Snubber Board	170130	1	110997
Power Stage Interface Board.....	170948	1	119524
PSI Board Cable Connectors:			
J1, 6 Pin Cable connector	122982	1	
J10, 12 Pin Cable Connector	122983	1	
Power Supply Board Kit			
(Includes 2.5" and 18" cable & PCB connector)...	142129	1	126438 (Assembly)
Fuse 600V, 25A KTK-R (F4, F5, F6).....	101705	3	
Fuse 250V, 1A MDL (F7).....	101664	1	
Fuse 250V, 5A MDX (F8).....	113829	1	
Fuse Holder for F7 & F8.....	126018	2	
Heat Sink Thermoswitch.....	112929	1	
Pilot Relay	125928	1	
Suppressor, Control 120VAC, 55J (4 MOV).....	123396	1	
Suppressor, Field (2, 3 MOV).....	173973	2	115549
Suppressor, Pilot Relay (SP2).....	115621	1	
Suppressor, Three-Phase(1 MOV).....	115547	1	
Transformer, 24V Supply	122985	1	
ACT1, ACT2, FCT1	105061	3	
TD-1	105062	1	

Notes: (1) 9.30 functionally identical to 10.10. ITS and DriveTools32 were limited to three digits.

Auxiliary Contacts 100hp @ 230V and 200hp @ 460V See page 13 for rest of HP ratings

Auxiliary Contact Position	Terminal marking	Part Number
11A	N.O., 13-14, N.C., 21-22	608830-4BA
11B	N.O., 43-44, N.C., 31-32	172108
11C	N.O., 53-54, N.C.,61-62	301609

1395 Digital DC Drive Renewal Parts

Page 14 of 19

Horsepower Rated

Series B Drives, MKVA, 125 to 300 HP@230 Volt; 250 to 600 HP@460V; 500 to 600 HP@575V; 600 to 737HP@660V

Regenerative & Non-Regenerative

Parts Common to All Ratings

Description	Part Number	Quantity per Drive	Supercedes
Main Control Board (All boards refer to "spare parts kit" number label on board. And all are downward compatible.)			
Firmware Rev. 3.01.....	119521.....	1.....	
Firmware Rev. 4.01.....	140354.....	1.....	
Firmware Rev. 4.03.....	144961.....	1.....	
Firmware Rev. 5.01.....	145048.....	1.....	
Firmware Rev. 8.02.....	155800.....	1.....	
Firmware Rev. 8.03.....	156009.....	1.....	
Firmware Rev. 8.10.....	185694.....	1.....	170174
Firmware Rev. 9.20.....	185713.....	1.....	
Firmware Rev. 10.10.....	194933.....	1.....	
Firmware Rev. 9.30.....	196259.....	1.....	Rev 10.10 194933 (Note 1)
Discrete Adapter Board 115VAC.....	170024.....	1.....	119712 & 145479
Discrete Adapter Board 24V DC.....	170023.....	1.....	145472
Digital Reference Adapter Board.....	140093.....	1.....	
Digital Reference Adapter Board (RTP only) KP13.....	164325.....	1.....	133496
Multi Communication Adapter Board.....	196274.....	1.....	145108,155993
ControlNet Adapter Board	KP54EN (196273).....	1.....	185240
Node Adapter Board	148540.....	1.....	119527
Mounting Hardware for above boards:			
White plastic hinge bar.....	119912.....	1.....	
Armature Pulse Board.....	126511.....	3.....	
Field Pulse Board.....	170131.....	1.....	110997 & 155227
Feedback Board.....			
230 VAC (150/300VAC).....	122970.....	1.....	
460V AC (300/575VAC).....	122972.....	1.....	
575/660V AC	142429.....	1.....	
Power Stage Interface Board (PSI)	170950.....	1.....	126305
PSI Board Cable Connectors:			
J1, 6 Pin Cable connector	122982.....	1.....	
J10, 12 Pin Cable Connector	122983.....	1.....	
Power Supply Board Kit			
(Includes 2.5" and 18" cable and PCB connector)	142129.....	1.....	126438 (Assembly)
Contactor.....	172002.....	1.....	117474
Fans.....	117475.....	3.....	
Fan Switch Kit (Includes switch and vane).....	103997.....	3.....	
Fan Switch (Only).....	101935.....	3.....	
Fan Switch Vane	102362.....	3.....	
Fuse SCR, (F7 to F12) 800A, 500V	119436.....	6.....	Bulletin 2361(MCC) 505973
Fuse SCR, (F7 to F12) 800A, 700V Bull. 2361, MCC.....	505973.....	6.....	
Fuse 600V, 20A KTK-R (F1, F2, F3)	101669.....	3.....	
Fuse 125V,1.5A MDL (F5).....	109226.....	1.....	
Fuse 250V, 7A MSL (F4)	128427.....	1.....	125747
Fuse Holder for F4 & F5.....	126018.....	2.....	
Pilot Relay.....	125928.....	1.....	
Pilot Relay Diode Bridge (D1) 35A 1200V	129362.....	1.....	117112
SCR Field Kit, 104A, 1500V	192706.....	2.....	135110, 192705
Suppressor, Control 115V AC (4 MOV).....	123396.....	1.....	
Suppressor, Field (2, 3 MOV)	173973.....	2.....	115549
Suppressor, Pilot Relay (SP2)	115621.....	1.....	
Suppressor, Three-Phase(1 MOV)	120630.....	1.....	
Transformer, 24V Supply.....	122985.....	1.....	

Notes: (1) 9.30 functionally identical to 10.10. ITS and DriveTools32 were limited to three digits.

1395 Digital DC Drive Renewal Parts

Page 18 of 19

Miscellaneous

Encoder Driver Module (Publication 1395-5.23)	133341
Reverse Motion Detector Assembly, Including Mounting Bracket	119901
Reverse Motion Detector, Board Only	119822
Reverse Motion Detector, Bracket only	119823
Contactor Coil Snubber	116418
Node Adapter J2, 6 Pin, Black Cable Connector (Blue Hose).....	119654
ControlNet and MultiComm Adapters, J5, 4 pin, black (TE connector)	108828
MultiComm Adapter, Channel A or B, black, 3 pin, cable connector.	138893

Series A wiring harness's:

DMT D-Shell to Main Control Board, 11.5"	125904
TB3 Pins 1-12 to Series A PSI Board J10	124111

Series B wiring harness's:

DMT to Main Control Board, 7.5"	145264
TB3 Pins 1-12 to Series B PSI Board J14.....	170981

Ribbon Cables:

All Drives:

Main Control Board to Adapter Ports A & B,	108605
--	--------

Low Kva:

Power Supply Board J2 to PSI Board J7, 2.5", Series A (in 142129 Kit).....	142005
Main Control Board J2 and J5 to PSI J8 and J9, Series A,	113503
PSI J2 to Feedback Board J2, 16 Pin, Series A,	124158
PSI J3, J4, J5 to Armature Pulse Transformer / Snubber Board, 10", Series A	124159
PSI J6 to Field Pulse Transformer/Snubber Board J1, 10 Pin, 8.25" Series A,	109129
Main Control Board J2 and J5 to PSI J10 and J13, Series B,	145314
PSI J9 to Power Board J6, 4.5" Series B.....	145313

Low Kva, Series A & B Wire harness:

Discrete Adapter Board J3 to TB3, Pins 43 to 51, 12 Pin, Digital I/O	126013
Discrete Adapter Board J4 to TB3, Pins 23 to 41, 20 Pin, Analog I/O	126014
TB3 to Digital Reference Adapter Board	133340
TB3 Encoder to Main Control Board	124110

Medium Kva Ribbon Cables:

Power Supply Board J2 to PSI Board J7, 18", (In 142129 PS Kit).	142016
Main Control Board J2 and J5 to PSI J8 and J9.....	129040
PSI J2 to Feedback Board J2	113499
PSI J3,4,5 to Armature Pole Piece J1, 60", 20 Pin	118811
PSI J6 to Field Pulse Transformer / Snubber Bd. J1, 40", 10 Pin	118809
PSI J10 to TB3 Pins 1-12, STD Interface	124186
Main Control Board J1(Encoder) to TB3	124187

Medium Kva Wire Harness

DMT D-Shell to MCB, 34",	124373
Discrete Adapter Board J3 to TB3, Pins 43 to 51, 12 Pin, Digital I/O	124107
Discrete Adapter Board J4 to TB3, Pins 23 to 41, 20 Pin, 3.5', Analog I/O	126529
Digital Reference Adapter Board to TB3	133527

Miscellaneous (continued)

HKVA Ribbon Cables:

Power Supply Board J2 to PSI Board J7, 18", Series A, (In 142129 PS Kit)	142016
PSI J2 to Feedback board J2, 16 Lead 28 Ga, 43"	143761
PSI J6 to Field Pulse Transformer and Snubber Board J1, 10 lead 28 Ga, 37",.....	143760
PSI J8 or J9 to Main Control Board J5 or J2, 34 Lead 28Ga, 2"	113503
PSI J7 to Power Supply J1, 26 Lead,.....	142005

HKVA Wire Harness:

Encoder to Main Control Board,	124110
DHT to Main Control Board J4,	143763
PSI J10 to TB3 Pins 1-12,	143762
Discrete Adapter Board J3 to TB3, Pins 43 to 51, 12 Pin, Digital I/O	126013
Discrete Adapter Board J4 to TB3, Pins 23 to 41, 20 Pin, Analog I/O, Includes 126014	159381

Tachometer Feedback Scaling PCB's

All Series and Ratings

Description	Catalog Number	Quantity
Feedback scaling PCB for 0-33V inputs	2361-SPP01A	1
Feedback scaling PCB for 34-46V inputs	2361-SPP02A	1
Feedback scaling PCB for 47-70V inputs	2361-SPP03A	1
Feedback scaling PCB for 71-125V inputs	2361-SPP04A	1
Feedback scaling PCB for 126-178V inputs	2361-SPP05A	1
Feedback scaling PCB for 179-250V inputs	2361-SPP06A	1

Encoder Feedback Selection Example, for complete information see link below.

845H-SJHN26FWY2C

Explanation: H = English Servo

N = 3/8" Shaft with Flat
 2 = 8-24 Vdc Power Supply
 6 = DLD 8-24 Vdc Output Configuration
 FW = 1024 Pulses Per Revolution
 2 = Radial Connector (Side)
 C = With Mating Connector

845S Encoder line has been discontinued and replaced with the 845H

Literature: http://literature.rockwellautomation.com/idc/groups/literature/documents/ca/845h-ca500_-en-p.pdf

[Online Configurator with drawings](#)

