



May, 1986
Supersedes Competitive Data 41-050
pages 1-4, dated June, 1982
Mailed to: E, D, C/41-100A

Competitive Relay and Channel Equipment Cross Reference

This publication contains Westinghouse approximate equivalents for competitive relays. It also lists IEEE device numbers, a brief application, description and instruction reference.

Competitive Relay and Channel Equipment Cross Reference Chart (Alphabetical by Type)

GE		Device	Application	Instruction Leaflet Reference
ACR	RC	79	Multishot Reclosing	IL 41-661
BBA	PMA, PMA-1, -13	74	Pilot Wire Monitoring	IL 41-973.5
BBA21A	PM-2	74	Pilot Wire Monitoring	IL 41-973.5
BBA22A	PM-3	74	Pilot Wire Monitoring	IL 41-973.5
BCA & NAA22	KA-4	85	Carrier Aux. Dir. Comp. Blkg	IL 41-923.4
BDD15	HU	87	Transformer Diff.	IL 41-347.1
16	HU-1	87	Transformer Diff.	IL 41-347.1
17	HU-4	87	Transformer Diff.	IL 41-347.1
18	....	....	Transformer Diff.	....
19	....	....	Transformer Diff.	....
20	....	....	Transformer Diff.	....
BFC11A	HRU	51	Inst, OC W/Harmonic Rest.	IL 41-347.3
CAP15	H-3	32	Power Directional	IL 41-226.2
CCP13E	....	32	3 PH Power Dir.	....
CEB13	KD-11, SKD-1T	21	Offset Phase Distance	IL 41-490, 495.51
51A	KS	68	OS Blocking	IL 41-492, 492.1
51B	....	..	Offset mho Blocking	....
52	KD-11, SKD-1T	21	Offset Phase Distance	IL 41-490, 495.51
CEH51	KLF, KLF-1	40	Loss of Field	IL 41-748 IL 41-748.1
CEX19	SDB	21B	3 Unit Blinder	IL 41-489
20	....	21	3 reactive, distance, 1st zone	....
CEX57	SDB	21B	Dist. Blinder (Dual)	IL 41-489
CEXG20	KDXG	21N	3 reactive, grnd. dist. 1st zone	IL 41-496
CEY51A	KD-10, SKD-T	21	Grd Distance	IL 41-490, 495.51
52A	KD-10, SKD-T	21	Grd Distance	IL 41-490, 495.51
53A	KD-3	21	Phase (mho) distance	IL 41-498
CEYB52	KD-11	21	Dir. Dist. Car Start	IL 41-490
CEYG51A	SDG-T Line	21N	Grd Distance	IL 41-496.5
CFC & CNP	KRQ	67N	Dir. Neg. Seq. Grd. O/C	IL 41-164
CFD22 A or B	SA-1	87	Generator Diff.	IL 41-348.1
CFF23	KF, MDF	81	Underfreq.	IL 41-503
CFPC	CRC	67N	Dir. Grd. Current Polarized	IL 41-131
CFPG	KRD	67N	Dir. Grd O/C Dual Pol	IL 41-137
CLPG12	KRD-4	67N	Dir. Grd O/C Dual Pol	IL 41-137.3
CFW	CWD	32	Dir. Over & Under Power	IL 41-241.4
CFZ	....	21	Distance	....
CFV12A	KP	27 & 59	3 Undervoltage & Phase Seq.	IL 41-222.4
16	KV-1	11	1 Undervoltage	IL 41-933.3
CFVB	....	60	Voltage Balance	....
CFW 11E	KH-1, -2	67	Directional O/C	IL 41-138.1
CHC11 or 21	KC-4, KO-3	50	Inst O/C	IL 41-776.1, 932
CHC12	KC-2	50	Inst O/C	IL 41-776.2
CJC15E	KRV	67	Inst O/C Dir.	IL 41-137.2
CJCG15K	KRD, KRC, KRP	67N	Dual Pol. Inst O/C Grd. Dir.	IL 41-137
	KRD-4	67N	Dual Pol. Inst O/C Grd. Dir.	IL 41-137.3
CNP+IAC60	CRQ-6, -7	67N	Neg. Seq. Dir. Inv.	IL 41-163.2
CNP+IAC80	CRQ-8, -9	67N	Time Grnd. O/C	IL 41-163.2
CNP+IAC90	CRQ-11	67N	Time Grnd. O/C	IL 41-163.2
CNP+IAC68F	KRQ	67N	Neg. Seq. Dir. Inst. Grnd. O/C	IL 41-164
CNP11+JCC51A	IRQ-6, -7	67N	Neg. Seq. Dir. Inst. Grnd. O/C & Timer	IL 41-133.2
CNP11+JCC53A	IRQ-8, -9	67N		IL 41-133.2
CNP11+JCC77A	IRQ-11	67N		IL 41-133.2
CPD11D	HCB	87	Pilot Wire Relay	IL 41-971.2
	HCB-1, -2, -3	87	Pilot Wire Relay	IL 41-971.3



Competitive Relay and Channel Equipment Comparison Chart, cont'd

GE	Ⓜ	Device	Application	Ⓜ Instruction Leaflet Reference
GCX	KD-10	21	Phase Distance	IL 41-490
GCXG51 or 53	KDXG	21N	Grd Distance	IL 41-496
GCXY	KD-10	21	Phase Distance	IL 41-490
GCY	KD-10	21	Phase Distance	IL 41-490
	KD-11	21	Phase Distance	IL 41-490
GES	XASV	25	Auto Sync	....
GGP53	CRN-1	32	Power Directional	IL 41-251.2
GSY	KST	68/78	OS Tripping	IL 41-492.5
GYC	KD-10/CO	21/51	PH Dist. + OC	IL 41-490
HAA-11	JM	30	Annunciator	IL 41-741
HAA-12	JL	30	Annunciator	IL 41-742
HAA-13	JM	30	Annunciator	IL 41-741
HAA-14B	JL	30	Annunciator	IL 41-742
HAA-15	TR-1	94	Trip Indicator	IL 41-758.1
HEA	WL	94	Lockout Relay	IL 34-253.1
HFA	MG-6	94L, Y & Z	Auxiliary	IL 41-753.1
HGA	SG	94K, Y & Z	Auxiliary	IL 41-751
HGA14	AR	94	High Speed Aux	IL 41-759
HGA17	....	2	Time Delay	....
HGA18	SGR-51, SGR-52	79	Single Shot Reclosing	IL 41-668.1 IL 41-668.12
HGC	....	50	Inst. O/C	....
HKA	....	..	Single Pole Control	....
HMA	SG	94, X, Y & Z	Auxiliary	IL 41-751
HNC	ITH	50	High Dropout Inst O/C	IL 41-771
IAC51	CO-7	51	Time O/C (Inverse) SPST	IL 41-100
52	CO-7	51	Time O/C (Inverse) DPST	IL 41-100
53	CO-9	51	Time O/C (Very Inverse) SPST	IL 41-100
54	CO-9	51	Time O/C (Very Inverse) DPST	IL 41-100
IAC5	CO-2	51	Time O/C (Short) SPST	IL 41-100
56	CO-2	51	Time O/C (Short) DPST	IL 41-100
57	....	..	Time O/C (Med)	....
59	COD	90	Current Regulating Relay	IL 41-112
60A	CO-7	51	Torque Controlled time Overcurrent w/o inst. unit	IL 41-101 IL 41-100
B	CO-7	51	Overcurrent with inst. unit	IL 41-100
E	....	..	....	....
H	....	..	....	....
66A	CO-5	51	Long Time o/c w/o inst.	IL 41-100
66B	CO-5	51	Long Time o/c with inst.	IL 41-100
66K	COM-5	51	Long Time o/c with 2 inst.	IL 41-112
66M	COM-5	51	Long Time o/c with 2 inst.	IL 41-112
66S, T	CO-4	51	Step Time o/c	IL 41-106
70A	CO-5	51	Long Time o/c DPST	IL 41-100
70B	CO-5	51	Long Time o/c W/O inst.	IL 41-100
77	CO-11	51	Ext Inverse o/c SPST	IL 41-100
78	CO-11	51	Ext Inverse o/c DPST	IL 41-100
IAV51A	CV-5	59	Time Overvoltage SPST	IL 41-201
51D or E	CV-8	59	Time Overvoltage SPST	IL 41-201
IAV51A or M	CV-4	59	Time Overvoltage DPST	IL 41-201
IAV53K or N	CV-7	27 & 59	Time Over or Under Voltage	IL 41-201
IAV54E	CV-2	27	Time undervoltage	IL 41-201
IAV54F or H	CV-1	27	Time undervoltage	IL 41-201
IAV55	CV-2	27	Time undervoltage	IL 41-201
IAV69	CVD	27 & 59	Time under and over voltage	IL 41-201
IAV70A	CV-6	27 & 59	Time under and over voltage	IL 41-201
IAV71 or 72	CV-24, 25	59	Time under and over voltage	IL 41-201
IAV73A or B	CV-26, 27	27 & 59	Time under and over voltage	IL 41-201
IAV74	CV-21, 22	27	Time under and over voltage	IL 41-201
IAV74A	CV-22	27	Time under and over voltage	IL 41-201
IBC51	CR-6,-7	67	Phase, Dir. overcurrent SPST	IL 41-131
IBC52	CR-7	67	Phase, Dir. overcurrent DPST	IL 41-131
IBC53	CR-8,-9	67	Phase, Dir. overcurrent SPST	IL 41-131
IBC54	CR-9	67	Phase, Dir. overcurrent DPST	IL 41-131
IBC56	CR-2	67	Phase, Dir. overcurrent DPST	IL 41-131
IBC77	CR-11	67	Phase, Dir. overcurrent SPST	IL 41-131
IBC78	CR-11	67	Phase, Dir. overcurrent DPST	IL 41-131



Competitive Relay and Channel Equipment Comparison Chart, cont'd

GE		Device	Application	Instruction Leaflet Reference
IBC51K	CRC-6, -7	67N	Ground Dir. O/C	IL 41-131
	CRD-6, -7	67N	Ground Dir. O/C	IL 41-131
	CRP-6, -7	67N	Ground Dir. O/C	IL 41-131
IBC53K	CRC-8, -9	67N	Ground Dir. O/C	IL 41-131
	CRD-8, -9	67N	Ground Dir. O/C	IL 41-131
	CRP-8, -9	67N	Ground Dir. O/C	IL 41-131
IBC55K	CRC-2	67N	Ground Dir. O/C	IL 41-131
	CRD-2	67N	Ground Dir. O/C	IL 41-131
	CRP-2	67N	Ground Dir. O/C	IL 41-131
IBC57K	CRC-11	67N	Ground Dir. O/C	IL 41-131
	CRD-11	67N	Ground Dir. O/C	IL 41-131
	CRP-11	67N	Ground Dir. O/C	IL 41-131
IBCV51, 52	CR-7	..	Phase Fault Protection	IL 41-131
IBCV53, 54	CR-9	..	Phase Fault Protection	IL 41-131
IBCV77	CR-11	..	Phase Fault Protection	IL 41-131
ICC51A or B	CWC	32N, 81N	Dir. Grd. (product type)	IL 41-242.4
ICP51A or B	CWP	32N	Dir. Grd. (product type)	IL 41-242.4
ICR51, 53	CP	47	Undervoltage & Phase Seq.	IL 41-222.2
ICW51A, B	CW	32	Time overpower	IL 41-241.3
ICW52, 53	CWD	32	Power Directional	IL 41-241.4
IFC51A	CO-6 (Hi-Lo)	51	Time O/C (Def. Time) w/o Inst.	IL 41-100
	CO-7 (Hi-Lo)	51	Time O/C (Mod. Inv.) w/o Inst.	IL 41-100
IFC51B	CO-6, -7	51	Time O/C (Def. Time) w/Inst.	IL 41-100
IFC52B	CO-7	51	Time O/C (Mod. Inv.) w/Inst.	IL 41-100
IFC53	CO-9 (Hi-Lo)	51	Time O/C (Very Inv.) w/o Inst.	IL 41-100
IFC53B	CO-9	51	Time O/C (Very Inv.) w/Inst.	IL 41-100
IFC66	CO-5 (Hi-Lo)	51	Time O/C (Long Time)	IL 41-100
IFC66K	COM-5	51	Time O/C (Long Time)	IL 41-102
IFC77	CO-11 (Hi-Lo)	51	Time O/C (Extremely Inv.) w/o Inst.	IL 41-100
IFC77B	CO-11	51	Time O/C (Extremely Inv.) w/Inst.	IL 41-102
IFC95	CO-2 (Hi-Lo)	51	Time O/C (Short Time)	IL 41-100
IFCS	COV	51/27	Time O/C w/Voltage Control	IL 41-116
IFCV	....	51/27	Time O/C w/Voltage Restraint	....
IFD51A, D	CA-26	87	Transformer Diff.	IL 41-337.3
IFD52B	CA-16	87	Transformer Diff.	IL 41-337.3
IFV	CV	59	Time Overvoltage	IL 41-201
IGCV-51, -53	COV-7, -9	51, 27	Non-Dir., O/C w/Volt Restraint	IL 41-116
IJC51B	CM	46	Current Balance	IL 41-181.2
IJC51	COV-7	51, 27	Non-Dir., O/C w/voltage restraint	IL 41-116
IJD52	CA Generator	87	Generator Differential	IL 41-331.2
53	CA Transformer	87	Transformer Differential	IL 41-332.2
IJF51A, 52A	CF-1	81	Over and under frequency	IL 41-501.2
IJS51A or 52A	CVE	25	Synchrocheck	IL 41-681.1
IJS52D, E, G	CVE-1	25	Synchrocheck plus bus & line voltage check	IL 41-681.1
IJS52E, F, G	CVE-2	25	Synchrocheck, bus & line voltage check, selective recl.	....
INC51A	COQ	46	Neg. Seq. Inv. Time O/C.	IL 41-161
INC77B	COQ+POQ	46	Neg. Seq. Inv. Time O.C.	IL 41-161
IRT51, 53	DT-3	49	Temperature	IL 41-552.1
JBC51MA	IRV-6, -7	67	Phase dir. time and inst. O.C. (Mod. Inv.)	IL 41-133.3
JBC53M	IRV-8, -9	67	Phasedir. time and inst. O.C. (very inv.)	IL 41-133.3
JBC77M	IRV-11	67	Phase dir. time and inst. O.C. (ext. inv.)	IL 41-133.3
JBC51M	IRC-6, -7	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRD-6, -7	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRD-61, -71	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRP-6, -7	67N	Grnd. Dir. Inst. O/C	IL 41-133
JBC53M	IRC-8, -9	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRD-8, -9	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRD-81, -91	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRP-8, -9	67N	Grnd. Dir. Inst. O/C	IL 41-133
JBCG77M	IRC-11	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRD-11	67N	Grnd. Dir. Inst. O/C	IL 41-133
	IRP-11	67N	Grnd. Dir. Inst. O/C	IL 41-133
JBCV51	IRV-7	67	Phase Dir. time & inst. O.C. w/voltage restraint (inv.)	IL 41-133.3
JBCV53	IRV-9	67	Phase Dir. time & Inst. O.C. w/voltage restraint (very inv.)	IL 41-133.3



Competitive Relay and Channel Equipment Comparison Chart, cont'd

GE		Device	Application	Instruction Leaflet Reference
JBCV57	IRV-11	67	Phase Dir. time & Inst. O.C. w/voltage restraint (ext. inv.)	IL 41-133.3
JCC53 (+CNP)	IRQ-9	46	Dir. (neg. seq.) time & inst. O.C. (inv.)	IL 41-133.2
NAA27H	TT-12	94X	Tripping Aux	IL 41-958.91
NAA, CEX19A	SDB & ARS	21B	(Straight Line) Blinders	IL 41-489
NAA15+SAM14	KDTG	67N/2	Dir. O/C grd. w/timer	IL 41-497.2
	KRT, KRT-1	32T	Dir. Power w/timer	IL 41-497
NBG	D-3	76	dc ground	IL 41-151.1
NBV11+IAV54	CVQ	27	Neg. Seq. Voltage	IL 41-223
NGA	AR	50	Auxiliary	IL 41-759
NGV	SV	27	Undervoltage	IL 41-766.1
NHC	ITH	50	Inst. Grd. O/C	IL 41-771
NLR21	DRC-1, RC	79	Multi Shot Recloser	IL 41-667.3
NSR11	SGR-12	79	Single Shot Recloser	IL 41-663.2
NSR21	SGR-51	79	Single Shot Recloser	IL 41-668.1
NSR21G or H	SGR-52	79	Single Shot Recl. w/RI	IL 41-668.12
PJC	SC	50	Inst. O/C	IL 41-766.1
PJG	DGF	64	Machine Field Ground	IL 41-747
PJV	SV	27, 59	Instantaneous Voltage	IL 41-766.1
PK-2	FT-1	..	Test Switch	IL 41-075
PVD	KAB	87	Bus Differential	IL 41-337.4
RPM 14, 24	TD-4	2	Timing	IL 41-579
SAM11	TD-53	2	Timing (Solid State)	IL 41-579.1
SAM11 or 17	TD-5	2	Timing (Solid State)	IL 41-579.3
SAM13	TD-52	2	Timing (Solid State)	IL 41-579.2
SAM14 or 16	TD-4	2	Timing (Solid State)	IL 41-579.2
SAM17G	TD-50	2	Timing (Solid State)	IL 41-579.2
SASB	....	60	Voltage Balance (solid-state)	IL 41-759
SBA	AR, ARS	79	High Speed Aux.	IL 41-776.5
SBC23	SBF-1	50	Inst. O/C	IL 41-776.5
SBD	KAB	87	Bus Differential	IL 41-337.4
SCA			Auto check	IL 41-110
SFC	SCO	51	Inv. time O/C (Solid State)	IL 41-504
SFF21	MDF-1	81	Underfrequency (solid-state)	IL 41-161.1
SGC	SOQ	46	(Neg Seq time O.C. with alarm)	IL 41-670
SHR	SRCU-2	79, 25	(Multi-shot recloser with synchro and voltage check solid-state.)	IL 41-777
SLC	SI-1	50	Inst. O.C. (solid-state) 1	IL 41-777
SLJ	....	25	Syn. Check	IL 41-495.51
SLV-11	....	27/59	Over/Under Voltage	IL 41-496.5; .51
SLY	SKD-T	21	Phase Dist.	IL 41-496.4
SLY81, -82	SDG-T Line	21N	Ground Dist.	IL 41-496.4
SLYG	SDGU	21N	Ground Distance	IL 41-496.4
SPA	....	74	Pilot Wire Monitoring	IL 41-347.1
SPD	....	87	AC Pilot Wire Relay	IL 41-347.1
STD15C	HU	87	Transformer Diff.	IL 41-347.11
STD16C	HU-1	87	Transformer Diff.	IL 41-507
STD17C	HU-4	87	Transformer Diff.	IL 41-775.1
STV	MVH	59	Overvoltage-Const. Volts/Hz	IL 41-552.1
SVC	SLB-1	61	Breaker Pole Unbalance	IL 41-553.1
TBB	DT-3	49	Bearing Temp	IL 41-553.1
THC	BL-1 (3)	49	3 Thermal O.C.	IL 41-553.1
TMC	BL-1 (1)	49	1 Thermal O.C.	IL 41-076
XLB	FT Plug		Test plugs for relays	

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