



May, 1987
Supersedes Selector Guide 41-000C
dated August, 1986
Mailed to: E, D, C/41-000A

Protective Relay ANSI/IEEE Device Numbers (C37.2) Alphabetical

Note:

These are ANSI/IEEE Device Numbers for the most common application of each relay. Special applications could mean different device numbers.

Relay Type	ANSI Device Number	Function
AR	94X, Y, Z	Tripping Auxiliary
ARS	94X, Y, Z	Tripping Auxiliary
BL-1	49	Thermal
CA (Generator)	87	Differential Protective
CA (Transformer)	87	Differential Protective
CA-16	87	Differential Protective
CA-26	87	Differential Protective
CF-1	81	Frequency
CGRS	46N	Ground Overcurrent with Restraint
CM	46	Phase Balance
CO-2, 4, 5, 6, 7, 8, 9, 11 (with IIT) [ⓐ]	50/51 [ⓐ]	Ac Time and Instantaneous Overcurrent [ⓐ]
CO-2, 4, 5, 6, 7, 8, 9, 11 (Phase)	51	Time Overcurrent
CO-2, 4, 5, 6, 7, 8, 9, 11 (Ground)	51N	Time Overcurrent Ground
COD	90	Regulating Device (Current)
COM-5, 6, 7, 8, 9, 11	51/50	Ac Time or Instantaneous Overcurrent
COQ	46	Phase Balance, Negative Sequence
COV-5, 6, 7, 8, 9, 11	51/27	Time Overcurrent/Undervoltage
CP	47	Phase Sequence Voltage
CR-2, 5, 6, 7, 8, 9, 11 (Phase)	67	Directional Overcurrent
CR-2, 5, 6, 7, 8, 9, 11 (Ground)	67N	Directional Overcurrent Ground
CRC-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground
CRD-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground
CRN-1	32	Directional Power
CRP-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground
CRQ-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground
CT	49	Thermal (RTD)
CV (Frequency Compensated)	27/59	Undervoltage and Overvoltage
CV-1, 2, 4, 5, 6, 7, 8	27/59	Undervoltage and Overvoltage
CV-21, 22, 24, 25, 26	27/59	Undervoltage and Overvoltage
CVD	27/59	Undervoltage and Overvoltage
CVE, CVE-1	25	Synchronism-check
CVQ	27	Undervoltage
CW	32	Directional Power
CWC	67N	Directional Overcurrent Ground
CWD	32	Directional Power
CWP, CWP-1	32N	Directional Ground
D-3	37/76	Dc Undercurrent or Overcurrent
DGF	64	Dc Ground
DGSH	27	Ground Protective (3d Harmonic)
DRC-1	79	Reclosing
DT-3	49	Thermal
H-3	32	Directional Power
HCB-1, -2, -3	87	Differential Pilot-Wire Relaying
HRU	50	Instantaneous Overcurrent, Harmonic Restraint
HU, HU-1, HU-4	87	Differential Protective
HV-3	32	Directional Power
HV-4	32	Directional Power
IRC-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground [ⓐ]
IRD-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground [ⓐ]
IRP-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground [ⓐ]
IRQ-2, 5, 6, 7, 8, 9, 11	67N	Directional Overcurrent Ground [ⓐ]
IRV-2, 5, 6, 7, 8, 9, 11	67	Directional Overcurrent Ground [ⓐ]
IT	50	Instantaneous Overcurrent
ITH	50	Instantaneous Overcurrent
JL	30	Annunciator Relay
JM	30	Annunciator Relay
KA-1	85	Over-Reaching Transfer Trip
KA-4	85	Carrier Auxiliary
KAB	87B	Differential
KC-2, -4	50	Instantaneous Overcurrent
KD-3, -5, -10	21	Distance Phase
KD-11	21	Distance Phase
KDTG	67N/2	Ac Directional Overcurrent Ground With Timer
KDXG	21N	Distance Phase
KF	81	Frequency
KH-1, 2, 21	67	Overcurrent
KLF, KLF-1	40	Field Relay
KO-1, -3	50	Instantaneous Overcurrent
KP	47	Phase Sequence Voltage
KQS	83G	Phase Selector

[ⓐ] Changed or added since previous issue.



Relay Type	ANSI Device Number	Function
KRC	67N	Directional Overcurrent Ground
KRD, KRD-4	67N	Directional Overcurrent Ground
KRP	67N	Directional Overcurrent Ground
KRQ	67N	Directional Overcurrent Ground
KRT	67N/2	Directional Timer
KRV	67	Ac Directional Overcurrent
KS-3	68	Blocking Relay
KST	68/78	Blocking Relay
KV-1	27/59	Undervoltage and Overvoltage
LC-1, -2	87	Differential Protective
LCB II	87	Differential Protective
L-DAR	21/21N	Zone Extension System
MCO	50/51	MicroProcessor Time Overcurrent
MDF-1, 2, 3, 4	81	Overfrequency and Underfrequency
MG-6	94X, Y, Z	Auxiliary and Tripping
MPR	38/46/49/50/	
	51/86/87	Programmable Motor Protection Relay
MVH	24	MicroProcessor Volts/Hertz Overexcitation
PM-2, 3, 4, 5	74	Alarm Relay
PM-23	85	Pilot Wire Receiver
PM-13	74/85	Pilot Wire Receiver
PM-43	74	Alarm Relay
PMA, PMA-1	74	Alarm Relay
PMD, PMD-1	74	Alarm Relay
PMG-13	74/85	Alarm and Pilot Wire Receiver
POQ	46	Phase Balance Current
RC	79	Reclosing
RCL	79	Reclosing
SA-1	87	Differential Protective
SBF-1	50/62BF	Time Delay Stopping
SBFU	50/62BF	Time Delay Stopping
SC, SC-1	50	Instantaneous Overcurrent
SCO, SCO-T	51	Single Phase Overcurrent
SD-2	21	Time Distance
SDB	21B	Distance Blinder
SDBU-1, 2	21B	Distance Blinder
SDG-1T, -2T, -4T	21N	Ground Distance
SG	94X, Y, Z	Auxiliary and Tripping
SG (Interlock)	94X, Y, Z	Auxiliary and Tripping
SGR-1	79	Reclosing
SGR-51, 52	79	Reclosing
SGRU-51, 52, 54	79	Reclosing
SI, SI-1, SI-1T, 2T, 4T	50	Instantaneous Overcurrent
SKBU-1, 2A	78	Phase Comparison
SKD-T, SKD-1T, 2T	21	Phase Distance
SLB, SLB-1	61	Current Balance
SMP	—	Multifunction
SOQ	46	Phase Balance Negative Sequence
SP, SP-1	21	Phase Distance
SPCU-1A	78	Phase Angle Measuring
SRCU-2	79	Reclosing
SRW	32	Reverse Power
SSCT	50	Instantaneous Overcurrent
SSO	—	Subsynchronous Resonance Detector
STU	85	Carrier Relay
STU-9, -12	85	Carrier Relay
STU-91, -92	85	Carrier Relay
SV, SV-1	27/59	Undervoltage (Dc only) and Overvoltage
SSVT	27/59	Undervoltage and overvoltage
SVF, SVF-1, SVF-31	27	Undervoltage
SX	79Z	Reclosing Auxiliary
TD-4	2	Time-Delay Starting or Closing
TD-5, 50, 51, 52, 53	2	Time-Delay Starting or Closing
TG-1	2	Time-Delay Starting or Closing
TK	2	Time-Delay Starting or Closing
TR-1, -3, -6	94	Tripping Relay
TT-1	74	Alarm Relay
TT-8, 9, 12, 16, 17, 21	85	Carrier or Pilot Wire Receiver
TT-18	94X	Tripping Auxiliary
TT-19	21X	Distance Auxiliary
UniFlex	21/21N/85	Solid State System, Modular

Ⓢ Changed or added since previous issue.



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Protective Relay ANSI/IEEE Device Numbers (C37.2) Numerical

Note:

These are Device Numbers for the most common application of each relay. Special applications could mean different device numbers.

IEEE Device Number	Relay Type	Function
2	TD-4	Time Delay Starting or Closing
2	TD-5, 50, 51, 52, 53	Time Delay Starting or Closing
2	TG-1	Time Delay Starting or Closing
2	TK	Time Delay Starting or Closing
21	KD-3, 5, 10, 11	Distance Phase
21	SD-2	Time Distance
21	SDU-1	Distance Phase
21	SKD-T, SKD-1T, 2T	Distance Phase
21	SP, SP-1	Distance Phase
21B	SDB	Distance Blinder
21B	SDBU-1, 2	Distance Blinder
21N	KDXG	Distance Ground
21N	SDG-1T, 2T, 4T	Distance Ground
21X	TT-19	Distance Auxiliary
24	MVH	Microprocessor Volts/Hertz Overexcitation
25	CVE, CVE-1, CV-2, CV-3	Synchronism Check
27	CV-1, 2, 6, 7	Undervoltage
27	CV-21, 22, 26, 27, CVQ	Undervoltage
27	KV-1, SVF, SVF-1, SVF-3, SVF-31	Undervoltage
27	DGSH	Ground Protective
27/59	CVD, SSVT	Undervoltage and Overvoltage
30	JL, JM	Annunciator Relay
32	SRW	Reverse Power
32	CRN-1, CW, CWD, H-3, HV-3, HV-4	Directional Power
32N	CWC, CWP, CWP-1	Directional Ground
37/76	D-3	DC Undercurrent or Overcurrent
38/46/49/50/ 51/86/87	MPR	Programmable Motor Protection Relay
40	KLF, KLF-1	Field
46	CM	Phase Balance Current
46	COQ, POQ, SOQ	Phase Balance Negative Sequence
46N	CGRS	Ground Overcurrent with Restraint
47	CP, KP	Phase Sequence Voltage
49	BL-1, CT, DT-3	Thermal
50/51	MCO	Microprocessor Time Overcurrent
50	IT, ITH, KC-2, -4	Instantaneous Overcurrent
50	KO-1, -3, SC, SC-1	Instantaneous Overcurrent
50	SI, SI-1, SI-1T, 2T, 4T, SSCT	Instantaneous Overcurrent
50/51	CO-2, 4, 5, 6, 7, 8, 9, 11	AC Time and Instantaneous Overcurrent
51	CO-2, 4, 5, 6, 7, 8, 9, 11	AC Time Overcurrent
51	HRU	AC Time Overcurrent
51	SCO, SCO-T	Single Phase Overcurrent
51N	CO-2, 4, 5, 6, 7, 8, 9, 11	AC Time Overcurrent Ground
51/50	COM-5	AC Time or Instantaneous Overcurrent
51/27	COV-5	AC Time Overcurrent and Undervoltage
59	CV-6, 7, CV-26, -27	Overvoltage
59	SV, SV-1, SSVT	Overvoltage
61	SLB, SLB-1	Current Balance
50/62BF	SBF-1, SBFU	Time Delay Stopping

Ⓢ Changed or added since previous issue.



IEEE Device Number	Relay Type	Function
64	DGF	Ground Protective
67	CR-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent
67	IRV-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent
67	KRV	AC Directional Overcurrent
67N	CRC-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	CRD-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	CRP-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	CRQ-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	IRC-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	IRD-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	IRP-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	IRO-2, 5, 6, 7, 8, 9, 11	AC Directional Overcurrent Ground
67N	KRC, KRD, -4	AC Directional Overcurrent Ground
67N	KRP, KRQ	AC Directional Overcurrent Ground
67N/2	KDTG	AC Directional Overcurrent Ground With Timer
68	KS-3	Blocking Relay
68/78	KST	Blocking Relay
74	PM-2, 3, 4, 5	Alarm Relay
74	PM-43, PMA, PMA-1	Alarm Relay
74	PMD, PMD-1	Alarm Relay
74	TT-1	Alarm Relay
74/85	PM-13, PMG-13	Alarm and Pilot Wire Receiver
78	SKBU-1, 2	Phase Angle Measuring Relay
78	SPCU-1 A	Phase Angle Measuring Relay
79	DRC-1, RC, RCL	AC Reclosing
79	SGR-1	AC Reclosing
79	SGR-51, 52	AC Reclosing
79	SGRU-51, 52, 54	AC Reclosing
79	SRCU-2	AC Reclosing
79	SX	AC Reclosing Auxiliary
81	CF-1, KF, MDF-1, 2, 3, 4	Frequency
83G	KQS	Automatic Selective Control
85	KA-4	Carrier Auxiliary
85	PM-23	Pilot Wire Auxiliary
85	STU, STU-12	Carrier or Pilot Wire Auxiliary
85	STU-91, -92	Carrier Auxiliary
85	TT-8, 9, 12, 16, 17, 21	Carrier or Pilot Wire Auxiliary
87	CA (Gen), CA (Transf.)	Differential Protection
87	CA-16, CA-26	Differential Protection
87	HCB, -1, -2, -3	Diff. Protection (Pilot Wire)
87	LC-1, -2, LCB, SA-1	Differential Protection
87B	KAB	Differential Protection (Bus)
90	COD	Regulating Device (Current)
94	TR-1, -2, -3	Tripping Relay
94X, Y, Z	AR, ARS	Tripping Auxiliary
94X, Y, Z	MG-6, SG	Tripping Auxiliary
94X, Y, Z	TT-18	Tripping Auxiliary

Ⓢ Changed or added since previous issue.

Westinghouse Electric Corporation
Relay and Telecommunications Division
Coral Springs, FL 33065

Westinghouse



Protective Relays and Relaying Systems

Relay Literature Index

Refer to Price Lists 41-020 and 41-021 for prices and ordering information.
For Relay-Instrument Switchboards, refer to Section 40-100.

Relay Type	Catalog Reference Number	Date	Instruction Leaflet	Renewal Parts Data	Application Data
Auxiliary					
Current Transformers^①					
3 Phase.....			41-486		
1 Phase.....			41-487		
AR.....	PB 41-750B1	3-65	41-759		
AR (Solid State Input).....			41-759.2		
BL-1.....	DB 41-550	7-68	41-553.1	41-553A1	
CA (gen.).....	DB 41-331A	10-68	41-331.2	41-205	AD 41-300
CA (transf.).....	PB 41-330C1	6-65	41-332.2	41-205	AD 41-300
CA-16.....	DB 41-337	10-68	41-337.3		AD 41-300
CA-26.....	DB 41-337	10-68	41-337.3		AD 41-300
CAM.....	PB 41-330C4	6-65	41-338.1		AD 41-300
CF-1.....	DB 41-500	2-68	41-501.2	41-292	
CH-3.....			41-227		
CM.....	DB 41-180	6-63	41-181.2	41-181A1	
CN-33.....			41-891		
CO-2.....	DB 41-100A	2-67	41-101 ckt close	41-101A1	PD 41-100
CO-4.....	DB 41-100A	2-67	41-106		PD 41-100
CO-5.....	DB 41-100A	2-67	41-101 (ckt close)	41-101A1	PD 41-100
CO-6.....	DB 41-100A	2-67	{41-101 ckt close 41-103 ckt open}	41-101A1	PD 41-100
CO-7.....	DB 41-100A	2-67	41-101 ckt close	41-101A1	PD 41-100
CO-8.....	DB 41-100A	2-67	{41-101 ckt close 41-103 ckt open}	41-101A1	PD 41-100
CO-9.....	DB 41-100A	2-67	{41-101 ckt close 41-103 ckt open}	41-101A1	PD 41-100
CO-11.....	DB 41-100A	2-67	{41-101 ckt close 41-103 ckt open}	41-101A1	PD 41-100
COD.....	DB 41-100B	7-66	41-112, 41-112.1	41-101A1	
COM-5, 6, 7, 8, 9, 11.....	DB 41-100C	12-67	41-102	41-101A1	
CON ^①			41-786.1	41-283	
COQ.....	DB 41-160	3-59	41-161C		
COV-5, 6, 7, 8, 9, 11.....	DB 41-115	7-66	41-116		
CP.....	DB 41-220	7-66	41-222.2		
CR-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A	5-62	41-131	41-131A1	
CRC-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A	5-62	41-131	41-131A1	
CRD-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A	5-62	41-131	41-131A1	
CRN ^①			41-793		
CRN-1.....	DB 41-250	1-68	41-251.2		
CRP-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A	5-62	41-131	41-131A1	
CRQ-6, 7, 8, 9, 11.....			41-163.2		
CT.....	DB 41-550	7-68	41-551.2	41-551A1	
CV (freq. comp.).....	DB 41-200	7-67	41-201.2		
CV-1, 2, 4, 5, 6, 7, 8.....	DB 41-200	7-67	41-201 series	41-201A1	
CV-21, 22, 24, 25, 26, 27.....	DB 41-200	7-67	41-201.2		
CVD.....	DB 41-200	7-67			
CVE.....	DB 41-680	11-68	41-681.1		
CVE-1.....	DB 41-680	11-68	41-681.1		
CVN ^①			41-284		
CVQ.....			41-223		
CVR-1.....			41-431.8		
CW (1-phase).....	DB 41-245	6-60	41-241.2	41-241A1	
CW (3-phase).....	DB 41-245	6-60	41-241.3	41-241A1	
CWC.....	DB 41-240	3-66	41-242.4	41-201A1	
CWD.....			41-241.4		
CWN ^①			41-794		
CWP.....	DB 41-240	3-66	41-242.4	41-240A1	

① This apparatus is not listed in Price Lists and must be negotiated.

② This apparatus listed in Price List 41-021.

AD—Application Data

DB—Descriptive Bulletin

PB—Product Bulletin

PD—Performance Data

November, 1968

Supersedes Selector Guide 41-000B, pages 1-2, dated March, 1968

E, D, C/2011/PL

Protective Relays and Relaying Systems

Alphabetical Index

Relay Type	Catalog Reference Number	Date	Instruction Leaflet	Renewal Parts Data	Application Data
CWP-1.....	DB 41-240	3-66	41-242.5	.....	.....
D-3.....	DB 41-150	11-67	41-151.1	41-151A1	.....
DGF.....	DB 41-745C	2-68	41-747	.....	.....
DRC.....	DB 41-667	10-68	41-667.1	.....	.....
DT-3.....	DB 41-550	7-68	41-552.1	41-151A1	.....
FT Case.....	DB 41-075	7-61	41-076	41-076A1	.....
FT Test Plugs.....	DB 41-075C	7-68	41-076	41-076A1	.....
FT-1 Test Switch.....	DB 41-075C	7-68	41-076	.....	.....
H-3.....	DB 41-225	5-68	41-226.2	41-419	.....
HCB Pilot Wire Insulation and Protection.....	.....	.....	41-971.4	.....	.....
HCB-1.....	DB 41-658	7-67	41-973.3	.....	.....
Hi-Coupler.....	.....	.....	41-948.11	.....	AD 41-940
HKB.....	.....	.....	41-951.3	41-650A1	.....
HQS①.....	.....	.....	41-928	.....	.....
HRU.....	PB 41-330C6	3-65	41-347.2	.....	AD 41-300
HU.....	PB 41-330C3	3-65	41-347.1	41-347A1	AD 41-300
HU-1.....	PB 41-330C3	3-65	41-347.1	41-347A1	AD 41-300
HU-4.....	PB 41-330C5	3-65	41-347.1	.....	AD 41-300
HV-3.....	DB 41-225	5-68	41-226.1	41-419	.....
HV-4.....	DB 41-225	5-68	41-228.1	.....	.....
Inverter, Dc-Ac.....	DB 41-075D	4-68	41-856	41-852A1	.....
IRC-2, 5, 6, 7, 8, 9, 11...	DB 41-130B	1-67	41-133	.....	.....
IRD-2, 5, 6, 7, 8, 9, 11...	DB 41-130B	1-67	41-133	.....	.....
IRP-2, 5, 6, 7, 8, 9, 11...	DB 41-130B	1-67	41-133	.....	.....
IRQ-2, 5, 6, 7, 8, 9, 11...	DB 41-130B	1-67	41-133.2	.....	.....
IRV-2, 5, 6, 7, 8, 9, 11...	DB 41-130B	1-67	41-133.2	.....	.....
ITH.....	.....	.....	41-771	.....	.....
JL.....	DB 41-740	11-67	41-742	41-740A1	.....
JM.....	DB 41-740	11-67	41-741	41-740A1	.....
JZ-76.1②.....	.....	.....	41-949.1A	.....	AD 41-940
JZ-72.....	.....	.....	41-947.1	.....	AD 41-940
JZ-72.3.....	.....	.....	41-949.2	.....	AD 41-940
JZ-73.1.....	.....	.....	41-949.7	.....	AD 41-940
JZ-79.7/2.....	.....	.....	41-949.4	.....	AD 41-940
KA-1②.....	.....	.....	41-923.1	.....	AD 41-960
KA-4②.....	.....	.....	41-923.4	.....	.....
KC-2.....	.....	.....	41-776.2	.....	.....
KC-3.....	.....	.....	41-776	.....	.....
KC-4.....	.....	.....	41-776.1	.....	.....
KD-3.....	.....	.....	41-498	41-491A1	.....
KD-4 (.75-20 ohms).....	PB 41-490A	7-63	41-491.4	41-491A1	.....
KD-4 (2-4.35 ohms).....	PB 41-490A	7-63	41-498.11	41-491A1	.....
KD-5.....	PB 41-490A	7-63	41-498.12	41-491A1	.....
KD-41.....	.....	.....	41-491.4	41-491A1	.....
K-Dar Directional Comparison Blocking System.....	.....	.....	41-911A	.....	.....
K-Dar Test Switch.....	.....	.....	41-494	.....	.....
K-Dar Test Unit.....	.....	.....	41-493 series	.....	.....
KDTG.....	DB 41-497	.....	41-497.2	.....	.....
KDXG.....	DB 41-497	.....	41-496	.....	.....
KF.....	DB 41-503	.....	41-503	.....	.....
KH-1.....	.....	.....	41-138.1	.....	.....
KH-2.....	.....	.....	41-138	.....	.....
KH-21.....	.....	.....	41-138.2	.....	.....
KLF.....	DB 41-745B	10-63	41-748	.....	.....
KLF-1.....	DB 41-745A	10-63	41-748.1	.....	.....
KO-1.....	.....	.....	41-931	.....	.....
KO-3.....	.....	.....	41-932	.....	.....
KR②.....	PB 41-941	12-62	41-941.1	.....	AD 41-940
KR Voice Adapter.....	PB 41-941	12-62	41-942.1	.....	AD 41-940
KRC.....	DB 41-135	9-58	41-137	.....	.....
KRD.....	DB 41-135	9-58	41-137	.....	.....

① This apparatus is not listed in Price Lists and must be negotiated.

② This apparatus listed in Price List 41-021.

AD—Application Data

DB—Descriptive Bulletin

PB—Product Bulletin

Westinghouse Electric Corporation

Relay Instrument Division: Newark Plant, Newark, N. J.

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Protective Relays and Relaying Systems

Relay Literature Index

Relay Type	Catalog Reference Number	Date	Instruction Leaflet	Renewal Parts Data	Application Data
KRD-4②			41-137.3		
KRP	DB 41-135	9-58	41-137		
KRQ			41-164		
KRT			41-497		
KRV			41-137.2		
KS②			41-492.1		
KSN			L639949		
KV-1			41-933 series		
LC-1	PB 41-330B2	7-65	41-342.1A		AD 41-300
LC-2	PB 41-330B2	7-65	41-342.1A		AD 41-300
MAS			41-811		
MAW			41-812		
MG-6	DB 41-750B	6-66	41-753.1	41-753A1, A2	
Miscellaneous Cases	DB 41-075A	7-66			
MN	DB 41-750C		41-754		
PG①			41-731		
PG-3			41-732		
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PM-43			L-639950		
PMA, PMA-1			41-973.4		
PMD, PMD-1			41-973.5		
PMG-13			41-973.5		
POQ	DB 41-160	3-59	41-162.2		
Power Line Carrier					AD 41-940
PR (Bm.)			41-877		
RC	DB 41-660	12-59	41-661	41-661A1	
RCD			41-666		
Reserve Signal Detector for TC and KR Carrier			41-944.6		AD 41-940
SA-1	DB 41-331	1-67	41-348.1		
SAR②			41-843		
SAR-1②			41-843		
SAR-2②			41-843		
SBF			41-776.3		
SBFU			41-776.4		
SBR	PB 41-880		41-881.1		
SC	DB 41-765	10-64	41-766.1	41-766A1	
SC-1	DB 41-765	10-64	41-766.1	41-766A1	
SCC			41-177		
SD-1①			41-499		
SD-2	DB 41-495	7-67	41-499.1		
SDB			41-489		
SDBU-1, 2			41-489.1		AD 41-911.2
SDG-1, 2, 3, 4	DB 41-496	11-68	41-496.1		
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SGR-1	DB 41-660	12-59	41-662.1	41-132	
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SGR-51	DB 41-668		41-668.1		
SGR-52	DB 41-668		L-835862-A		
SGRU-52	DB 41-668		41-668.2		
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SI-1			41-777		
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SKBU-2			41-954.4		
SKBU-21			41-954.5		

① This apparatus is not listed in Price Lists and must be negotiated.

② This apparatus listed in Price List 41-021.

AD - Application Data

DB - Descriptive Bulletin

PB - Product Bulletin

November, 1968

Supersedes Selector Guide 41-000B, pages 3-4, dated March, 1968
E, D, C/2011/PL

Protective Relays and Relaying Systems

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SVF-1.....	DB 41-765	10-64	41-766.4		
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TT-19②.....			41-911.1		
TT-21.....			41-958.6		

① This apparatus is not listed in Price Lists and must be negotiated.

② This apparatus listed in Price List 41-021.

AD—Application Data

DB—Descriptive Bulletin

PB—Product Bulletin

Westinghouse Electric Corporation

Relay-Instrument Division: Newark Plant, Newark, N. J.

Printed in USA

Westinghouse



Protective Relays and Relaying Systems

Application Index

Function		Type of Protection	Relay Type	Literature Reference
Over and/or Undervoltage	Non-directional	Inverse Timing.....	Phase..... CV-1, 2, 4, 5, 6, 7, 8..... CVD.....	DB 41-200 DB 41-200
		Inverse Timing..... Frequency Compensated	Phase..... CV-21, 22, 24, 25, 26, 27.....	DB 41-200
		Adjustable Timing.....	Phase..... SVP.....	PB 41-765A
		Instantaneous.....	Phase..... SV, SV-1.....	DB 41-765
		Instantaneous..... Frequency Compensated	Phase..... SVF, SVF-1.....	DB 41-765
		Instantaneous..... Negative Sequence Overvoltage and Inverse Timing Undervoltage	Phase..... CVQ.....	IL 41-223
		Instantaneous..... Undervoltage	Phase..... KV-1.....	IL 41-933
Power	Directional	Inverse Timing.....	Phase..... CW..... CWD..... H-3, HV-3.....	DB 41-245 IL 41-241.4 DB 41-225
		Inverse Timing.....	Generator..... H-3.....	DB 41-225
		Inverse Timing.....	Motor Phase-Angle Control..... HV-4.....	DB 41-225
	Reverse	Instantaneous.....	Phase..... KH-1..... KH-2..... KH-21.....	IL 41-138.1 IL 41-138 IL 41-138.2
		Adjustable Timing.....	Generator..... CRN-1.....	DB 41-250
Product	Directional	Adjustable Timing.....	Ground..... Sensitive Ground..... CWC, CWP..... CWP-1.....	DB 41-240 DB 41-240
Phase Balance	Non-directional	Adjustable Timing.....	Phase..... CM.....	DB 41-180
Differential ③	Constant Percentage, Inverse Timing.....		Generator..... CA.....	DB 41-331
	Variable Percentage, Instantaneous.....		Generator..... SA-1 (Solid State).....	DB 41-348
	Variable Percentage, Inverse Timing.....		Bus..... CA-16.....	DB 41-337
	Variable Percentage, Instantaneous.....		Bus..... HU-4.....	PB 41-330C5
	Linear Coupler, Instantaneous.....		Bus..... LC-1, LC-2.....	PB 41-330B2
	Constant Percentage, Inverse Timing.....		2 Winding Transformer..... CA.....	PB 41-330C2
	Variable Percentage, Inverse Timing.....		2 Winding Transformer..... CA-26.....	DB 41-337
	Variable Percentage, Instantaneous.....		2 Winding Transformer..... HU④.....	PB 41-330C5
	Variable Percentage, Inverse Timing.....		3 Winding Transformer..... CA-26.....	DB 41-337
	Variable Percentage, Instantaneous.....		3 Winding Transformer..... HU-1.....	PB 41-330C3
	Variable Percentage, Instantaneous.....		3 Winding Transformer..... HU-4.....	PB 41-330C5
	Harmonic Restraint Unit, Instantaneous.....		HRU.....	PB 41-330C6

② This apparatus not listed in 41-000 Price Lists, and must be negotiated.

③ For overall differential relaying, see AD 41-330.

④ For HU relay test unit type TRB-1, see DB 41-750C.

Protective Relays and Relaying Systems

Application Index

Type of Protection or Function				Relay Type	Literature Reference
Distance	Non-directional – Impedance – Blinder Relay			SDB (Solid State)	IL 41-489
				SDBU (Solid State Rack Mtd.)	IL 41-489
	Directional – Impedance, Phase	2	3	KD-4 + 2-Element CO	
		2	3	KD-4 + SD-2	
		3	3⑤	2 KD-4 + 1 KD-41 + 1 TD-2⑥	
		1	3	KD-5	IL 41-498.12
		1	3	SP (Solid State)	IL 41-495
		1	3	SKD (Solid State)	IL 41-495.1
	Directional – Impedance, Offset	2 & 3	3	KD-3	IL 41-498
	Directional – Impedance, Ground	3	1	SKDU-3 (Solid State Rack Mtd.)	IL 41-495.2
				KDXG	IL 41-496
				+ KRT	IL 41-497
		2	3	KDTG	IL 41-497.2
		1	3	SDG-1, 2, 3, 4 (Solid State)	IL 41-496.1
		1	3	SDGU-1, 2, 3, 4 (Solid State Rack Mtd.)	IL 41-496.2
Frequency	Out-of-Step Blocking: for KD Scheme			KS②	IL 41-492
				SKSU (Solid State Rack Mtd.)	
Frequency	Over or Under – Induction Disc			CF-1	DB 41-500
	Under – Instantaneous			KF (Solid State Timing)	DB 41-503
	Difference			TFD	IL 41-873
Temperature	Thermal – Ac and Dc			BL-1	DB 41-550
	Overcurrent and Exploring Coil – Induction Disc			CT	DB 41-550
	Contact Making Milliammeter – Exploring Coil			DT-3	DB 41-550
Timing	Ac	Synchronous Motor: Current Operated		TD-1	IL 41-572.2
				TD-2	DB 41-570
		Voltage Operated		TD	DB 41-570
				TK	DB 41-570
		Capacitor Switching Auxiliary		TJ	IL 41-876
	Dc	Solid State Circuitry		TD-4 (Solid State)	PB 41-570B
				TD-5 (Solid State)	PB 41-570A
				TD-51 (Solid State)	IL 41-579.1
				TD-52 (Solid State)	DB 41-570A
				TD-53 (Solid State)	IL 41-579.1
	Slug Type (Delay or Dropout)			TG-1	DB 41-570
				SG	DB 41-750A
Reclosing	Single Shot:	Manual Reset		SGR-1	DB 41-660
		Automatic Reset		SGR-12	DB 41-660
		Automatic Reset		SGR-51 (Solid State)	DB 41-668
		Automatic Reset		SGRU-51 (Solid State Rack Mtg.)	DB 41-668
		Automatic Reset (Adjustable on Reclosing)		SGR-52 (Solid State)	DB 41-668
		Automatic Reset (Adjustable on Reclosing)		SGRU-52 (Solid State Rack Mtd.)	DB 41-668
	Multi-Shot:	Automatic Reset		RC	DB 41-660
		Automatic Reset		DRC (Solid State Timing)	DB 41-667
		Automatic Reset (Adjustable on Reclosing)		SGRU-54 (Solid State Rack Mtg.)	DB 41-668
	Synchro-Verifier:	Without Auxiliary Line and Bus Relays		CVE	DB 41-680
		With Auxiliary Line and Bus Relays		CVE-1	DB 41-680
	Reclosing Lockout for 3-Phase Faults			SRX (Solid State)	IL 41-844A

② This apparatus not listed in 41-000 Price Lists, and must be negotiated.

⑤ 4-zone terminal, use 3 KD-4, 1 KD-41, and 1 TD-2.

⑥ TD-4 or TD-5 timers can be substituted.

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Protective Relays and Relaying Systems

Application Index

Refer to Price Lists 41-020 and 41-021 for prices and ordering information.

Refer to Selling Policy 41-000 for standard terms and conditions of sale.

Literature Reference Nomenclature

AD=Application Data

IL =Instruction Leaflet

DB =Descriptive Bulletin

L = Leaflet

PB =Product Bulletin

Where no literature reference is shown, consult nearest Westinghouse sales office for information.

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Overcurrent and/or Undercurrent	2
Overcurrent – Negative Sequence	2
Over-Under-Reverse Current, Dc	2
Overvoltage and/or Undervoltage	3
Power	3
Product	3
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Generator	3
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Distance	4
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For Relay-Instrument Switchboards, Supervisory Control, and Telemetry see Section 40-000.

For Analog Instruments, see Section 43-000.

Protective Relays and Relaying Systems

Application Index

Function			Type of Protection	Relay Type	Literature Reference
Overcurrent and/or Undercurrent	Non-directional	Inverse Timing.....	Phase.....	CO-2, 4, 5, 6, 7, 8, 9, 11.....	DB 41-100A
				COD.....	DB 41-100B
				COM-5, 6, 7, 8, 9, 11.....	DB 41-100C
				COV-6, 7, 8, 9, 11.....	DB 41-115
		Instantaneous.....	Phase.....	SC, SC-1.....	DB 41-765
				SM-1②.....	IL 41-774
	Directional	Inverse Timing.....	Phase.....	ITH.....	IL 41-771
				KO-1.....	IL 41-931
				KO-3.....	IL 41-932
		Inverse Timing.....	Phase.....	CR-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A
				CRC-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A
				CRD-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A
				CRP-2, 5, 6, 7, 8, 9, 11.....	DB 41-130A
		Inverse Timing..... With Instantaneous Overcurrent Unit	Phase.....	IRV-2, 5, 6, 7, 8, 9, 11.....	DB 41-130B
				IRC-2, 5, 6, 7, 8, 9, 11.....	DB 41-130B
		Instantaneous.....	Phase.....	IRD-2, 5, 6, 7, 8, 9, 11.....	DB 41-130B
				IRP-2, 5, 6, 7, 8, 9, 11.....	DB 41-130B
		Instantaneous.....	Ground.....	KRV.....	DB 41-130C
				KRC, KRD, KRP.....	DB 41-130C
Overcurrent-Negative Sequence	Non-directional	Inverse Timing.....	Generator.....	COQ.....	DB 41-160
			Phase.....	POQ.....	DB 41-160
		Instantaneous.....	3-Phase.....	SI (Solid State).....	IL 41-777
			1-Phase.....	SI-1 (Solid State).....	IL 41-777
			Phase and/or Ground.....	SIU (Solid State) (Rack Mtd.).....	IL 41-777.1
	Directional	Inverse Timing.....	Ground.....	CRQ-6, 7, 8, 9, 11.....	IL 41-163.2
		Inverse Timing..... With Instantaneous Overcurrent Unit	Ground.....	IRQ-2, 5, 6, 7, 8, 9, 11.....	DB 41-130B
		Instantaneous.....	Ground.....		
				KRQ.....	IL 41-164
Over-Under-Reverse Current: Dc	Directional	Instantaneous.....	Dc.....	D-3.....	DB 41-150

② This apparatus not listed in 41-000 Price Lists, and must be negotiated.



Protective Relays and Relaying Systems

Application Index

Type of Protection or Function	Relay Type	Literature Reference
Specific Purpose		
Generator: Loss-of-Field	KLF	DB 41-745B
Field Ground	KLF-1	DB 41-745A
Circuit Breaker: Overcurrent-Breaker Failure	DGF	DB 41-745C
Overcurrent-Static Breaker Failure	KC-3	IL 41-776
Overcurrent-Static Breaker Failure	KC-4	IL 41-776.1
Overcurrent-Static Breaker Failure	SBF (Solid State)	IL 41-776.3
Overcurrent-Static Breaker Failure	SBFU (Solid State Rack Mtd.)	IL 41-776.4
Inverse Time Overcurrent – Multi-Shot Reclosing	SB R	IL 41-881
Ac Current: Ground Detector	PG-3	IL 41-732
Peak Current Indicator:	JM	DB 41-740
Current Comparer: To Supervise Tripping of SDG Relays	SCC (Solid State)	IL 41-777
Operation Indicator: 6-Unit	JM	DB 41-740
4-Unit with Lockout	JL	DB 41-740
Trip Unit, Static	TRB, TRB-1 (Std. State)	DB 41-750C
Output Package for Static Relay Systems	SRU (Solid State Rack Mtd.)	DB 41-846
Overcurrent Fault Detector	KC-2	IL 41-776.2
General Purpose and Auxiliary		
Ac or Dc Current		
Non-Adjustable	1 Pole	SX
Non-Adjustable	2 Pole	SG
Non-Adjustable	4 Pole	TR-1
Non-Adjustable	6 Pole	MG-6
Non-Adjustable, Static Circuitry	2 Pole	TR-3
Non-Adjustable, Static Circuitry	6 Pole	TR-6
Non-Adjustable, Static Circuitry	2 Pole	SAR-2 (Solid State)
Adjustable	1 Pole	SAR-1, 2 (Solid State)
Adjustable	2 Pole	MN
Adjustable	2 Pole	SC, SC-1
Ac or Dc Voltage		
Non-Adjustable	1 Pole	SX
Non-Adjustable	2 Pole	SG
Non-Adjustable	4 Pole	AR
Non-Adjustable	4 Pole	TR-1
Non-Adjustable	6 Pole	MG-6
Non-Adjustable, Static Circuitry	2 Pole	SAR-2 (Solid State)
Adjustable	1 Pole	MN
Adjustable	2 Pole	SV, SV-1
Adjustable, With Time Delay	1 Pole	SVP
Adjustable, Frequency Compensated	2 Pole	SVF, SVF-1
Pilot Wire Relaying Systems		
Phase and Ground		
Phase and Ground Relays	HCB-1	DB 41-658
Pilot Wire Monitor		
Shorted, Open, Reversed, Grounded: Ac Input	PMA	IL 41-973.4
Shorted, Open, Reversed, Grounded: Dc Input	PMD	IL 41-973.5
Shorted, Open, Reversed: Ac Input	PMA-1	IL 41-973.4
Shorted, Open, Reversed: Dc Input	PMD-1	IL 41-973.5
Shorted, Open, Reversed, and Remote Trip: Ac Input, Dc Remote Trip	PM-13	IL 41-973.5
Shorted, Open, Reversed, and Remote Trip: Dc Input, Ac Remote Trip	PM-13	IL 41-973.5
Shorted, Open, Reversed, and Remote Trip: Ac Input, Dc Remote Trip	PM-43	L-639950
Shorted, Open, Reversed, and Remote Trip: Dc Input, Ac Remote Trip	PMG-13	IL 41-973.5
Shorted, Open, Reversed, and Remote Trip: Ac Input, Ac Remote Trip	PMG-13	IL 41-973.5
Grounded Only	PM-5	IL 41-973.5
Shorted, Open, Reversed	PM-2	IL 41-973.5
Remote Trip Only	PM-3	IL 41-973.5
Shorted, Open, Reversed, and Remote Trip	PM-23	IL 41-973.5
Current Limit Adjuster	PM-4	IL 41-973.5

② This apparatus is not listed in 41-000 Price Lists, and must be negotiated.

Protective Relays and Relaying Systems

Application Index

Type of Protection and/or Function		Relay or Equipment Type	Literature Reference
Audio Tone Relaying Systems ^⑦	Over-reaching Transfer-Trip	Phase Relays..... KD-4..... KD-41..... SKD (Solid State)..... SKDU (Solid State)..... SKDU-1 (Solid State)..... SP (Solid State)..... SP-1 (Solid State)..... TT-21..... Tripping Unit..... Timer..... TD-2..... TD-4 (Solid State)..... KC-2..... Fault Detector for KD-4..... Carrier Ground..... Carrier Auxiliary..... TT-12..... STU-12 (Solid State Rack Mtd.)..... Carrier Auxiliary for Use With Single Channel..... Carrier Auxiliary for Use With Dual Channel..... STU-91 (Solid State Rack Mtd.)..... STU-92 (Solid State Rack Mtd.)..... Back-Up Ground..... IRD..... Out-of-Step Blocking..... KS..... SKSU (Solid State Rack Mtd.)..... Tone Channel Equipment..... TA-1 (Solid State Rack Mtd.)..... TA-3 (Solid State Rack Mtd.).....	PB 41-490A IL 41-491.4 DB 41-490D DB 41-490D DB 41-490D DB 41-490D DB 41-490D IL 41-958.6 DB 41-570 PB 41-570B IL 41-776.2 IL 41-137.3 IL 41-958.3 IL 41-958.7 DB 41-955 DB 41-955 DB 41-130B IL 41-492 IL 41-492.2 AD 41-960 DB 41-963
	Under-reaching Transfer-Trip	Phase Relays..... KD-4..... KD-41..... SKD (Solid State)..... SKDU-1 (Solid State Rack Mtd.)..... SP (Solid State)..... SP-1 (Solid State)..... TD-2..... TD-4 (Solid State)..... KC-2..... Fault Detector for KD-4..... Carrier Ground..... IRD..... Carrier Auxiliary..... TT-17..... Carrier Auxiliary for Use With Single Channel..... Carrier Auxiliary for Use With Dual Channel..... TT-9..... STU-91 (Solid State Rack Mtd.)..... STU-92 (Solid State Rack Mtd.)..... Out-of-Step Blocking..... KS..... SKSU (Solid State Rack Mtd.)..... Tone Channel Equipment..... TA-1 ② (Solid State Rack Mtd.)..... TA-3 ② (Solid State Rack Mtd.)..... Wind Band for Phase Comparison..... TA-2 ② (Solid State Rack Mtd.)..... Directional Comparison Unblocking..... STU (Solid State Rack Mtd.).....	PB 41-490A IL 41-491.4 DB 41-490D DB 41-490D DB 41-490D DB 41-490D DB 41-570 PB 41-570B IL 41-776.2 DB 41-130B IL 41-958.5 DB 41-955 IL 41-959.1 DB 41-955 IL 41-492.2 IL 41-492.2 AD 41-960 DB 41-963 AD 41-960 L-779861

② This apparatus is not listed in 41-000 Price Lists and must be negotiated.

⑦ Also see AD 41-960. Other tone relaying systems must be negotiated.

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Protective Relays and Relaying Systems

Application Index

Type of Protection and/or Function			Relay or Equipment Type	Literature Reference
Power Line Carrier Relaying Systems®	Directional Comparison	Phase Relays.....	KD-4 (.2-4.35 ohms)..... KD-4 (.75-20 ohms)..... SKD (Solid State)..... SKDU (Solid State Rack Mtd.)... SKDU-1 (Solid State Rack Mtd.)... SP (Solid State)..... SP-1 (Solid State)..... TT-16..... TD-2..... TD-4 (Solid State Timing)..... KC-2..... KRD-4..... KA-1..... KA-4..... SKA-1 (Solid State)..... SKAU (Solid State Rack Mtd.)... KS..... SKSU (Solid State Rack Mtd.)... KR (Solid State)..... TC (Solid State Rack Mtd.)... JZ.....	IL 41-498.11F IL 41-491.4 DB 41-490D DB 41-490D DB 41-490D DB 41-490D DB 41-490D IL 41-958.8 DB 41-570 PB 41-570B IL 41-776.2 IL 41-137.3 IL 41-923.1 IL 41-923.4 IL 41-923.5 L-779754 IL 41-942 IL 41-492.2 IL 41-941.1 IL 41-940.31 IL 41-947.1
	Phase Comparison	Phase and Ground Relay..... Carrier Alarm..... Carrier Auxiliary Control Unit..... Carrier Channel Equipment..... Line Tuner.....	HKB..... SKB (Solid State)..... SKBU (Solid State Rack Mtd.)... TT-1..... TT-4..... TCU (Rack Mtd.)..... TC (Solid State Rack Mtd.)... JZ.....	IL 41-951.2 IL 41-954 IL 41-954.1 IL 41-953 IL 41-651.3 IL 41-944.5 PB 41-940 IL 41-949 Series
	Over-reaching or Under-reaching Transfer Trip	These systems use all relay types as listed for audio tone systems. The carrier channel equipment is type TCF in place of TA-1 tone equipment. Tripping Unit.....	TCF (Solid State Rack Mtd.)..... TT-21.....	DB 41-945 IL 41-958.6
	Transformer Remote Trip	Uses standard differential relays as listed on page 3 in conjunction with either TCF carrier or TA-1 tone equipment.	TT-9..... STU-9(Solid State Rack Mtd.)... STU-91(Solid State Rack Mtd.)... STU-92(Solid State Rack Mtd.)...	IL 41-959.1 IL 41-959.2 DB 41-955 DB 41-955

② This equipment is not listed in 41-000 Price Lists and must be negotiated.

③ Also see AD 41-940. Other power line carrier relaying schemes are available. Consult nearest Westinghouse sales office.

November, 1968

Supersedes SG 41-000A, pages 7-8, dated March, 1968

E, D, C/2011/PL

**Protective Relays
and Relaying Systems**

Application Index

Auxiliary Devices

Description	Literature Reference
Dc to Ac Inverter, 60 Hertz.....	DB 41-075D
K-Dar Test Unit.....	IL 41-493 Series
K-Dar Test Switch.....	IL 41-494
Flexitest Switches and Test Plugs.....	DB 41-075C
Flexitest Cases.....	DB 41-075
Miscellaneous Cases and Mountings.....	DB 41-075A
Tool Kit.....	DB 41-075E
TC Test Unit.....	IL 41-944.7