



June, 1988
New Information
Mailed to: E, D, C/41-400B

KD-3 in FT-31 Case●
KD-5 in FT-42 Case●

Type KD-3 and KD-5 Compensator Distance Relay

KD-3 Relay, 70 Volts

Complete Relay Style Number	Frequency (Hz)	Range (Ohm)	Indicator Rating (Amp)	Style Number of Part Cylinder Unit
290B658A09	60	1.13-30	0.2-2.0	184A847G17
290B658A10	60	1.13-30	1.0	184A847G17
290B658A11	50	1.13-30	0.2-2.0	184A847G17

KD-5 Relay

Complete Relay Style Number	Frequency (Hz)	Range (Ohm)	Indicator Rating (Amp)	Style Number of Part Cylinder Unit ø-ø①	Cylinder Unit 3ø●
292B335A26	60	1.1-30	0.2-2.0	290B750G34	290B750G28
292B335A27	60	1.1-30	0.2-2.0	290B750G34	290B750G28
6699D39A01	50	0.2-4.5	0.2-2.0	6299D98G07	6299D98G03
6699D39A02	60	0.2-4.5	0.2-2.0	6299D98G07	6299D98G03

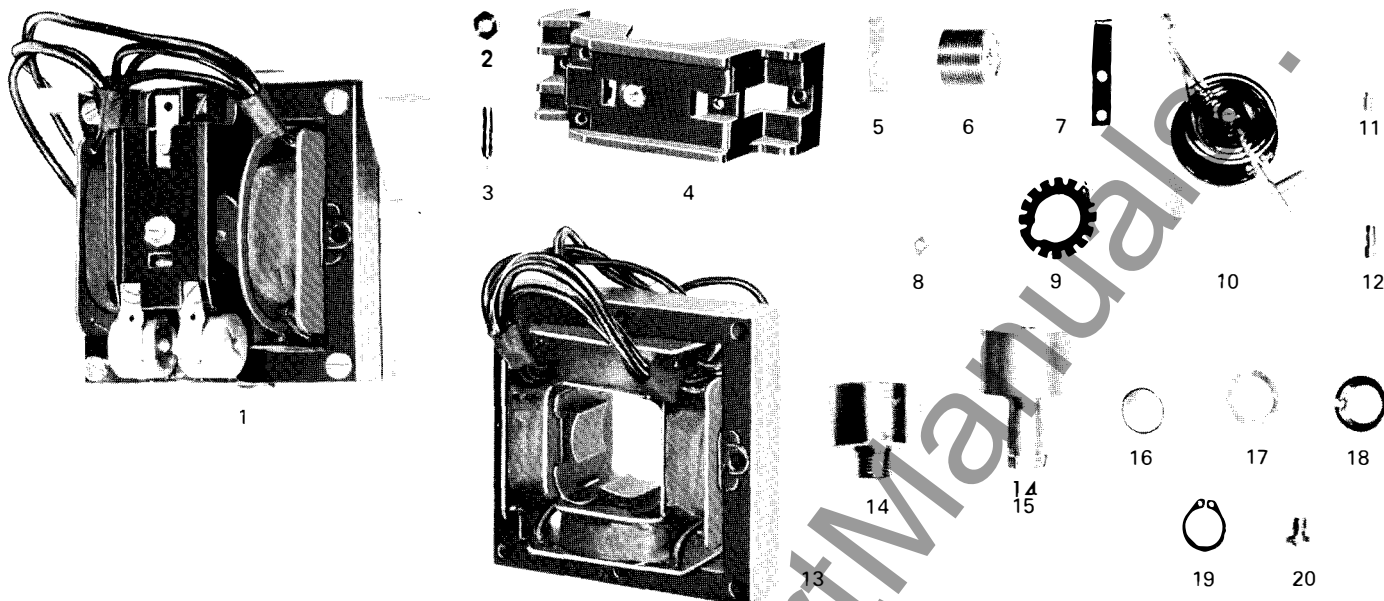
① This is the Lower Cylinder Unit.

② This is the Upper Cylinder Unit.

③ For Flexitest case parts refer to RPD 41-076A1.

Ordering Information

- Give style number and name of part.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.



Cylinder Unit Parts

Ref. No.	Description of Part	Style Number
1	Cylinder Unit Complete.....	See Table ^⑤
2	Nut for Upper Bearing Screw.....	203 056
3	Upper Bearing Screw.....	3499A37G11*
4	Bridge, Insert and Pin.....	183A660G01
5	Pressure Spring to Lock Stationary Contact.....	1730 953
6	Stationary Contact Assembly (L.H.).....	See Table*
7	Clamp for Spring Adjuster.....	1730 954
8	Nut for Spring Adjuster Clamp Screw.....	1008 149
9	Spring Adjuster.....	1730 950
10	Moving Element with Contact and Torque Spring (Less Adjuster).....	See Table [●] *
11	Upper Bearing.....	289B392G01
12	Lower Bearing.....	289B393G02
13	Electromagnet.....	See Table*
14	Core.....	629A652H01 ^④
15	Core (Long).....	292B405H01 ^⑤
15	Core (Long).....	289B502H01 ^⑥
16	Spacer.....	186A069H09 ^{⑤ ⑥}
17	Core Washer.....	837 754 ^{⑤ ⑥}
18	Core Nut.....	1730 945 ^④
19	Core Retainer Clip.....	31D5056H03 ^{⑤ ⑥}
20	Lower Bearing Screw.....	3499A37G10*

NOTE: Parts indented are included in the part under which they are indented.

● Used in cylinder unit style 290B750G28 only.

● Used in cylinder unit styles 290B750G34 and 6299D98G07.

⑥ Used in cylinder unit styles 184A847G17 and 6299D98G03.

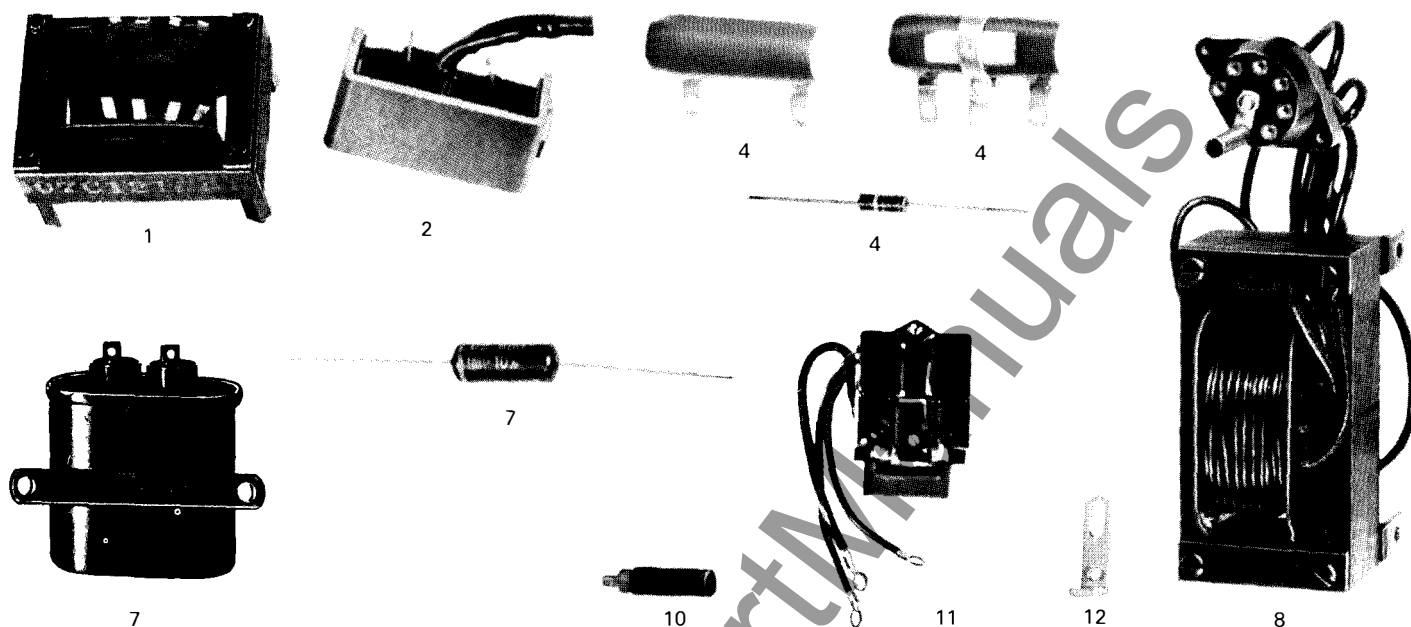
⑤ This assembly is factory adjusted, do not tamper with cemented sealed screw and nut on contact support arm.

● The style numbers of the cylinder unit, reactor and autotransformer are stamped on their frames.

* Recommended for stock.

Cylinder Unit^⑤

Complete Unit Style Number	Style Number of Part		
	Electromagnet	Moving Element	Stationary Contact (L.H.)
184A847G17	289B172G31	184A930G09	3491A82G09
290B750G28	289B172G19	184A930G16	3491A82G09
290B750G34	289B172G22	184A930G15	3491A82G09
6299D98G03	606B984G03	184A930G15	3491A82G13
6299D98G07	606B984G08	184A930G12	3491A82G13



Common Parts

Ref. No.	Description of Part	Style Number
1	Autotransformer (SA and SC)	407C121G01 ^③ ●● ^⑤ *
1	Autotransformer (SA and SC)	407C121G10 ^③ ●● ^⑤ *
1	Autotransformer (S)	407C121G13 ^③ ● ^⑤ *
1	Autotransformer (SA)	407C121G19 ^③ ● ^⑤ *
1	Autotransformer (SC)	407C121G37 ^③ ● ^⑤ *
1	Autotransformer (S)	407C121G38 ^③ ● ^⑤ *
2	Inductor Assembly	289B112G01 ^⑦ *
2	Inductor Assembly	289B112G06 ^⑨ *
3Δ	Potentiometer 250 Ohm	836A635H13 ^⑩ ⑪*
3Δ	Potentiometer 350 Ohm	836A635H01● ^⑫ *
4	Resistor	See Tables*
5Δ	Reactor (XL)	292B366G04 ^⑨ ● ^⑤ *
5Δ	Reactor (XL)	293B385G03 ^⑬ ● ^⑤ *
5Δ	Reactor (XL)	293B385G02 ^⑭ ● ^⑤ *
5Δ	Reactor (XS)	292B367G01● ^⑤ *
7	Capacitor	See Tables*
8	Compensator and Socket Assembly (L.H.)	289B174G02 ^⑭ *
8	Compensator and Socket Assembly (R.H.)	289B174G03 ^⑭ *
8	Compensator and Socket Assembly (L.H.)	289B174G06 ^⑮ *
8	Compensator and Socket Assembly (R.H.)	289B174G05 ^⑮ *
8	Compensator and Socket Assembly (3ø)	292B368G04 ^⑨ *
8	Compensator and Socket Assembly (3ø)	205C892G04 ^⑬ *
8	Compensator and Socket Assembly (3ø)	205C892G05 ^⑭ *
9Δ	Compensator and Socket Assembly (ø-ø)	411C091G02 ^⑥ *
9Δ	Compensator and Socket Assembly (ø-ø)	411C091G01 ^⑥ *
9Δ	Compensator and Socket Assembly (ø-ø)	205C887G07 ^⑬ *
9Δ	Compensator and Socket Assembly (ø-ø)	205C887G08 ^⑬ *
9Δ	Compensator and Socket Assembly (ø-ø)	205C887G09 ^⑭ *
9Δ	Compensator and Socket Assembly (ø-ø)	205C887G10 ^⑭ *
10	Tap Screw	1956 275●
11	ICS Unit, .2-2.0 Amp, Single Trip, Blank (R.H.)	3491A37G17 ^② ⑦*
11	ICS Unit, 1.0 Amp, Single Trip, Blank (R.H.)	3491A36G15●●*
11	ICS Unit, .2-2.0 Amp, Single Trip, Blank (L.H.)	3491A37G38 ^② ⑨*
12	Stationary Contact for ICS Unit	1732 868 ^③ *

NOTE: Parts indented are included in the part under which they are indented.

② For ICS unit parts refer to RPD 41-852A1.

③ Two (2) used.

⑦ Used in KD-3 relays only.

⑨ Used in KD-5 relay styles 292B335A26 and A27 only.

⑩ Used in KD-5 relay styles 6299D39A01 and A02 only.

● Two (2) used in KD-5 relay style 6299D39A01.

⑪ Three (3) used in KD-5 relay style 6299D39A02.

⑫ Used in KD-5 relay style 6299D39A02.

⑬ Used in KD-5 relay style 6299D39A01.

⑭ Used in KD-3 relay styles 290B658A09 and A10 only.

⑮ Used in KD-3 relay style 290B658A11 only.

● Use six (6) for all KD-3 relays and nine (9) for all KD-5 relays.

⑦ Used in KD-3 relay styles 290B658A09 and A11 only.

⑨ Used in KD-3 relay style 290B658A10 only.

⑩ Used in KD-5 relays only.

⑤ The style numbers of the cylinder unit, reactor and autotransformer are stamped on their frames.

Δ Not illustrated.

* Recommended for stock.



Resistor Table

Complete Relay Style Number	Style Number of Part							
	Position R	RA	RAC	R2A	R2C	R3	R3A	R3F
290B658A09	1724 641	1267 276	.....	187A294H01	187A294H01	.....	.....	.....
290B658A10	1724 641	1267 276	.....	187A294H01	187A294H01	.....	.....	.....
290B658A11	1724 641	1267 276	.....	187A294H01	187A294H01	.....	.....	.....
292B335A26	1724 641	.....	1730 869	05D1328H74	05D1328H74	187A294H02	1730 880	1336 041
292B335A27	1724 641	.....	1730 869	05D1328H74	05D1328H74	187A294H02	1730 880	1336 041
6299D39A01	1724 641	.....	.....	1202 586	1202 586	1340 388	.....	05D1328H40
6299D39A02	1724 641	.....	.....	1202 586	1202 586	1202 586	.....	05D1328H40

Capacitor Table

Complete Relay Style Number	Style Number of Part							
	Position C	CAP	CCS	C2A	C2C	C3A	C3C	C4A
290B658A09	1544 921	1723 407	14C9400H12	.....	.....	.....	.....	.....
290B658A10	1544 921	1723 407	14C9400H12	.....	.....	.....	.....	.....
290B658A11	1544 921	1723 407	14C9400H12	.....	.....	.....	.....	.....
292B335A26	1544 921	.....	.....	14C9400H13	14C9400H13	14C9400H13	1481B83H01	.....
292B335A27	1544 921	.....	.....	14C9400H13	14C9400H13	14C9400H13	1481B83H01	18C6553H04
6699D39A01	1544 921	.....	.....	1723 405	1723 405	14C9400H13	1481B83H01	.....
6699D39A02	1544 921	.....	.....	606B340H04	606B340H04	14C9400H13	1481B83H01	.....

Resistor Table

Description of Part	Style Number
50 Ohm, 2 Inch, Fixed.....	1340 388
150 Ohm Composite.....	1724 641
200 Ohm, 2 Inch, Fixed.....	1202 586
300 Ohm, 2 Inch, Adjustable.....	187A294H02
355 Ohm, 2 Inch, Fixed.....	1267 276
600 Ohm, 2 Inch, Adjustable.....	187A294H01
1000 Ohm, 3.5 Inch, Adjustable.....	1730 869
1260 Ohm, 3.5 Inch, Fixed.....	1336 041
1800 Ohm, 3.5 Inch, Adjustable.....	1730 880
2500 Ohm, 2 Inch, Adjustable.....	05D1328H40
3500 Ohm, 2 Inch, Adjustable.....	05D1328H74

Capacitor Table

Description of Part	Style Number
.022 MFD.....	1544 921
.3 MFD.....	1481B83H01
.45 MFD.....	18C6553H04
1.8 MFD.....	14C9400H12
1.8 MFD.....	1723 405
2.0 MFD.....	14C9400H13
2.0 MFD.....	606B340H04
4.0 MFD.....	1723 407