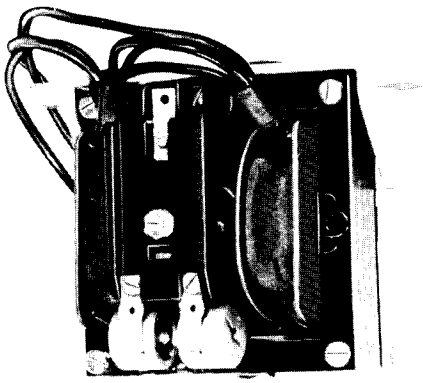
September, 1987
New Information
Mailed to: E, D, C/41-400B

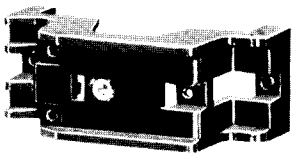
In FT-21 Flexitest Case①

Type KF Underfrequency Relay


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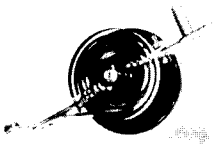
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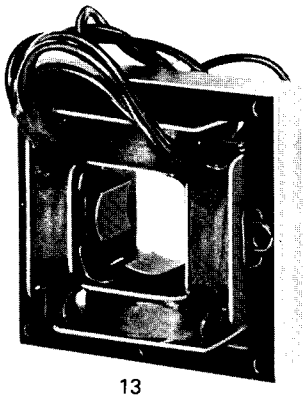

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KF Relay, 120 Volts AC

Complete Relay Style Number	Adjustable Frequency Range (HZ)	Timing Circuit		Indicator Rating (Amps)
		Rating	Time Delay (Cycles)	
671B287A09	55.0-59.5	48/125 VDC	6-30	0.2-2.0
671B287A10	55.0-59.5	48/125 VDC	6-30	0.2-2.0
671B287A11	55.0-59.5	48/125 VDC	6-30	0.2-2.0
671B287A13Ⓢ	55.0-59.5	120 VAC	6	0.2-2.0
671B287A15	55.0-59.5	VAC	6-30	0.2-2.0
671B287A16	55.0-59.5	125/250 VDC	6-30	0.2-2.0
671B287A17	55.0-59.5	None	None	0.2-2.0
671B287A18	55.0-59.5	48/125 VDC	6-30	0.2-2.0
671B287A19	55.0-59.5	VAC	6-30	120 VAC
671B287A20	45.0-49.5	48-125 VDC	6-30	0.2-2.0
671B287A21	55.0-59.5	VAC	6-30	0.2-2.0
671B287A22	55.0-59.5	VAC	6-30	4 Volts
671B287A23	45.0-49.5	VAC	6-30	0.2-2.0
671B287A24	45.0-49.5	None	None	0.2-2.0
671B287A29Ⓢ	55.0-59.5	120 VAC	6	1.0
671B287A30Ⓢ	55.0-59.5	120 VAC	6	0.5
671B287A31	55.0-59.5	VAC	6-30	1.0
671B287A32	45.0-49.5	125/250 VDC	6-30	0.2-2.0

① For Flexitest case parts refer to RPD 41-076A1.
Ⓢ This KF relay has a non-adjustable time relay.

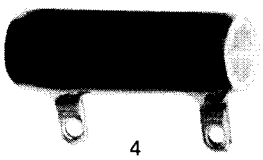
Ordering Information

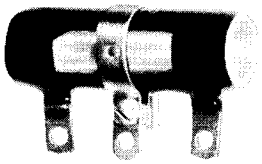
- Give style number and name of part.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.

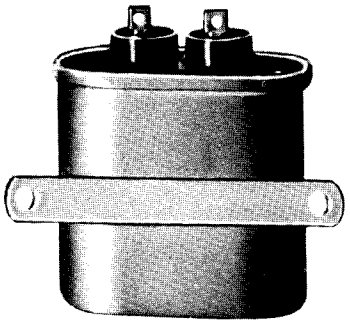
Cylinder Unit

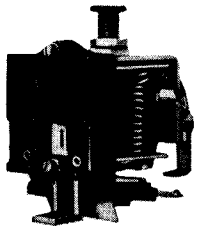
Ref. No.	Description of Part	Style Number
1	Cylinder Unit Complete	**290B750G22**Ⓔ
2	Nut for Upper Bearing Screw	**203 056**
3	Upper Bearing Screw	**3499A37G11***
4	Bridge and Insert	**60A1533G03**
5	Pressure Spring to Lock Stationary Contact	**1730 953**③
6	Stationary Contact Assembly (L.H.)	**3491A82G10***
6	Stationary Contact Assembly (R.H.)	**3491A82G09***
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)	**184A930G09**Ⓓ*
11	Upper Bearing	**289B392G01**
12	Lower Bearing	**289B393G02**
13	Electromagnet	**289B172G20***
14	Core	**1730 942**
15	Core Nut	**1730 945**
16	Lower Bearing Screw	**3499A37G10***

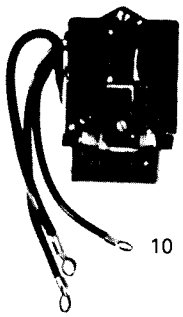
Note: Parts indented are included in the part under which they are indented.
③ Two (2) used.
Ⓓ This assembly is factory adjusted, do not tamper with the cemented sealed screw and nut on contact support arm.
Ⓔ The cylinder unit and reactor style numbers are stamped on their frames.
* Recommended for stock.


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Common Parts

Ref. No.	Description of Part	Style Number
1Δ	Telephone Relay, D-A-129104	**541D231H14⑥***
1Δ	Telephone Relay, A-458081	**541D514H10⑤***
1Δ	Telephone Relay, A-8871	**541D514H32④***
2Δ	Reactor, 50 HZ	**290B179G03***
2Δ	Reactor, 60 HZ	**290B179G04***
3Δ	Timer Circuit Board	**691B182G02⑤***
3Δ	Timer Circuit Board	**837A772G01⑥***
3Δ	Timer Circuit Board	**878A418G01④***
4	Resistor	**See Table***
5	Capacitor, 2 MFD, 50 and 60 HZ	**606B340H04***
5	Capacitor, .225 MFD, 60 HZ	**606B340H07***
5	Capacitor, .3 MFD, 50 HZ	**606B340H13***
6Δ	Potentiometer, 10K Ohms	**185A067H02④***
6Δ	Potentiometer, 50K Ohms	**185A067H11⑤***
7Δ	IVS Unit, 4 Volts, Single Trip, Blank	**3491A35G12②***
8Δ	AVS Unit, 120 VAC, Single Trip, Blank	**3491A34G33②***
9	ACS Unit, 0.5 Amps, Single Trip, Blank	**3491A39G12②***
9	ACS Unit, 1.0 Amps, Single Trip, Blank	**3491A39G13②***
10	ICS Unit, 0.2-2.0 Amps, Single Trip, Blank	**3491A37G38②***
11	Stationary Contact for IVS, AVS, ACS, and ICS Units	**1732 868③***

Resistor Table

Description	Style Number
750 Ohms, 2 Inch, Fixed	**1267 285⑦⑧**
1250 Ohms, 2 Inch, Fixed	**1202 589⑥**
1320 Ohms, 2 Inch, Fixed	**1267 291⑨**
1500 Ohms, 2 Inch, Tapped	**11D9511H06⑩**
1900 Ohms, 3.5 Inch, Fixed	**1955 649⑪**
2500 Ohms, 2 Inch, Adjustable	**05D1328H40⑫**

② For IVS, AVS, ACS and ICS unit parts refer to RPD 41-852A1.
③ Two (2) used.
④ Used in KF relays with DC timer (6-30 cycles adjustable).
⑤ Used in KF relays with AC timer (6-30 cycles adjustable).
⑥ Used in KF relays with AC timer (6 cycles non-adjustable).
⑦ Used in all KF relays.
⑧ Two (2) used in KF relays with AC timer (6-30 cycles adjustable).
⑨ Used in KF relay styles 671B287A16, A22 and A32.
⑩ Used in KF relays with 48/125 VDC timer (6-30 cycles adjustable).
⑪ Used as external resistor for KF relays with a 125/250 VDC (6-30 cycles adjustable).
⑫ Used in KF relay style 671B287A21 only.
Δ Not illustrated.
* Recommended for stock.

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September, 1987