



**ABB Power T&D Company Inc.**  
 Relay Division  
 Coral Springs, FL  
 Allentown, PA

Descriptive Bulletin  
**41-802E**

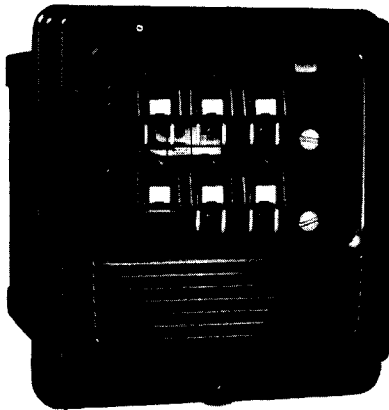
Page 1

September, 1990  
 Supersedes DB 41-740, pages 1-2,  
 dated December, 1987  
 Mailed to: E, D, C/41-900A

Parallel or Series Current Indicator  
**Device Number: 30**

## Type JM Circuit Indicators

**Type JM**



### Group Indicators

The JM unit provides visual indication of control or trip circuit completion. Units having either one or groups of six ac or dc indicators are available.

### Ac Series Indicators

This design has six ac current operated target assemblies wired in series within a Flexitest<sup>®</sup> case. The target flags are marked with the minimum ac pickup current of each unit. The six units are connected in series with the secondary of a current transformer, and indicate the approximate maximum value of ac fault current in the circuit.

The indicated current value is used to approximate the fault location, since the

current to the fault will increase as the fault approaches the source-of-power station.

### Accuracy

Accuracy of JM indicators is  $\pm 5\%$  of nominal rating.

### Burden Data

JM Ac Current Indicator

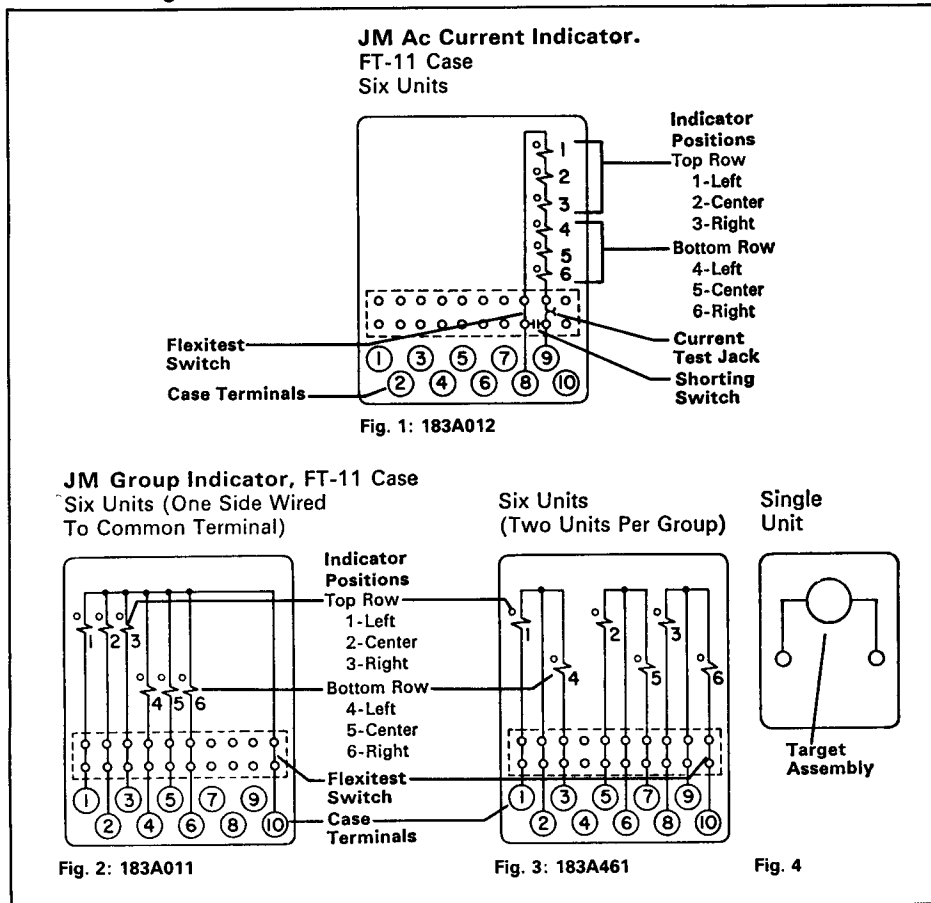
Rating: Amperes Ac	Burden: 5 Amps, 60 Cycles
3-30	2.0 va, 53° lag
5-25	1.04 va, 51° lag
5-50	0.73 va, 51° lag

### Weights and Carton Dimensions

Relay Type	Case Type	Weight, Lbs.:		Domestic Shipping Carton Dimensions: Inches
		Net	Shipping	
JM	Small Glass Projection	3	7	8½ x 9½ x 10
	FT-11	7	10	9 x 9 x 12

## Circuit Indicators

### Internal Wiring (Front View)



### Group Indicator

Consists of six indicators usually wired as shown in figures 2 and 3. When energized at or above rating, a spring restraint armature releases a white target flag which drops to indicate completion of the electrical circuit. The indicator assembly is manually reset by a push rod external to the case.

### Series Current Indicator

Similar in construction to the group indicator except that it has six series wired ac indicator coils of varied current ratings. Typical ratings are 3, 5, 10, 15, 20, 30 amps, or 5, 7½, 10, 15, 20, 25 amps, or 5, 10, 20, 30, 40, 50 amps.

**Indicator Coils:** Can be supplied for .03, 0.1, 0.2, 1.0, 2.0 amperes dc or 50/60 cycles for both JM types.

### Further Information

List Prices: PL 41-020  
Technical Data: TD 41-025  
Instructions: IL 41-741  
Renewal Parts: RPD 41-948  
Flexitest Case Dimensions: DB 41-076  
Contactor Switches: DB 41-081  
Other Protective Relays:  
Application Selector Guide, TD 41-016



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 Mailed to: E, D, C/41-100A

Parallel or Series Current Indicator

# Type JM Circuit Indicators

**Indicators (Device Number: 30)**

Type	Application	Operation Indicators			Relay Data		
		Units Per Case	Wiring Arrangement	Rating, Amps	Internal Schematic	Style Number	Case Size
<b>JM</b> ①	Circuit operation indicator	1	.....	0.2 dc	183A042	1727 521	<b>Small glass proj. (rear conn.)</b>
		1	.....	1.0 dc		1727 522	
		6	6 per group, one side common, 7 terminals	0.2 dc 1.0 dc 2.0 dc	183A011	1876 026 1878 872 1878 873	
		3 groups of 2 units each, 9 terminals	0.2 dc 1.0 dc 2.0 dc	183A461		1955 593 1956 069 1956 070	
	Peak current indicator	6	Series wired, 2 terminals	3-30 ac 5-25 ac 5-50 ac	183A012	1876 028 1876 029 1876 030	<b>FT-11</b>

① 50-Hertz relays and auxiliaries can be supplied at same price. Order "Similar to Style Number ....., except 50 Hertz".