

# TYPE FT-1 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

REF.  
10 POS SW.  
UPPER SECTION  
FRONT VIEW  
(CVR REMOVED)



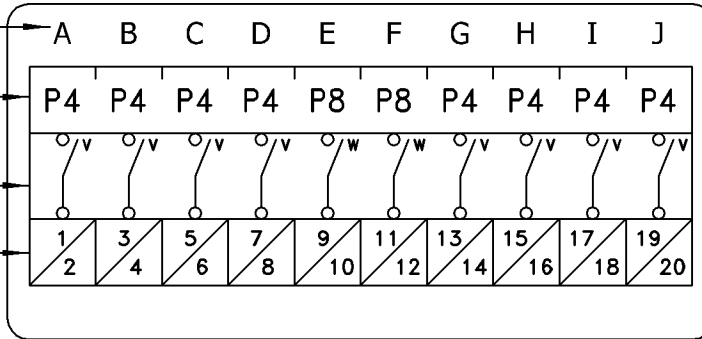
**STYLE No:** 991AB40G01  
**CODE No:** B40  
**CLASS 1E:** NO

POLE  
POSITIONS

SWITCH  
ARRANGEMENT

INTERNAL  
SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



**ARRANGEMENT:** V V V V W W V V V V

No. POLES: 10  
No. POTENTIALS: 10  
No. CURRENTS: 0  
TIE BARS: NONE  
DRILL PLAN: 129A500  
INT SCHEMATIC: 991AB40

Table 1 - Description of Poles for FT Flexitest Switches

| Pole Type              | Pole Designation |            | Handle Color       | Description & Schematic Symbol                                   |
|------------------------|------------------|------------|--------------------|--|
| Potential              | P1               | <b>P</b>   | Black <sup>†</sup> | Potential, non-shorting blade.                                   |
| Current                | C1               | <b>C</b>   | Black <sup>†</sup> | Current, non-shorting, with test jack and blade.                 |
| Current ††<br>Shorting | C1-C1            | <b>C-C</b> | Black <sup>†</sup> | Current shorting (make-before-break), with test jack and blade.  |
|                        | C1-A1            | <b>C-A</b> |                    | Current shorting (make-before-break), with blade only.           |
|                        | C1-B0            | <b>C-B</b> |                    | Current shorting (make-before-break), with stud only.            |
|                        | C1-D0            | <b>C-D</b> |                    | Current shorting (make-before-break), with test jack only.       |
|                        | C1-E1            | <b>C-E</b> |                    | Current shorting (make-before-break), with shorting blade only.  |
|                        | C1-S0            | <b>C-S</b> |                    | Current shorting (make-before-break), with fixed shorting strap. |
| Other                  | D0               | <b>D</b>   | None               | Current test jack, no blade.                                     |
|                        | S0               | <b>S</b>   | None               | Fixed shorting strap.  |
|                        | X0               | <b>X</b>   | None               | Empty pole position.   |

† = See Table 2 for complete list of color handles.

†† = Current shorting poles can span up to 5 positions, and can have any combination of color handles (ex: C1-C7-C5-C2-A4).

Table 2 – Handle Colors

| Pole Type | Pole Designation |          | Handle Color |
|-----------|------------------|----------|--------------|
| Potential | P1               | <b>P</b> | Black        |
|           | P2               | <b>T</b> | Red          |
|           | P3               | <b>H</b> | Brown        |
|           | P4               | <b>V</b> | Purple       |
|           | P5               | <b>G</b> | Green        |
|           | P6               | <b>Y</b> | Yellow       |
|           | P7               | <b>Z</b> | Blue         |
|           | P8               | <b>W</b> | White        |
|           | P9               | <b>O</b> | Orange       |
| Current   | C1               | <b>C</b> | Black        |
|           | C2               | <b>R</b> | Red          |
|           | C3               | <b>3</b> | Brown        |
|           | C4               | <b>4</b> | Purple       |
|           | C5               | <b>5</b> | Green        |
|           | C6               | <b>6</b> | Yellow       |
|           | C7               | <b>7</b> | Blue         |
|           | C8               | <b>8</b> | White        |
|           | C9               | <b>9</b> | Orange       |

**TEST PLUGS:**

**INDIVIDUAL CURRENT CIRCUIT TEST PLUG.**  
STYLE No: 7B4618G04

**SEPARATE SOURCE TEST PLUG (10 POS).**  
STYLE No: 1164046

**IN-SERVICE SERIES TEST PLUG.**  
STYLE No: 129A062G10

|  |  |   |   |                   |                            |                  |
|--|--|---|---|-------------------|----------------------------|------------------|
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|  |  | CHKR/DATE: M.Uriguen 1/28/2009                    |   |                   |                            |                  |
|  |  | APPR/DATE: Tim Masters 1/28/2009                  |   |                   |                            |                  |
|  |  | SOFTWARE TYPE:<br>AUTOCAD 2006                    | <b>FT-1 SWITCH<br/>POLE ARRANGEMENT &amp; INT SCH</b> |                   |                            |                  |
|  |  | ENG. REF:<br>MFG DWG: FT1-B40<br>GEN DWG: 1616C24 | © Copyright 2008 ABB<br>All rights reserved           | SIZE:<br><b>A</b> | DWG. NO:<br><b>991AB40</b> | REV:<br><b>1</b> |
| ABB Protective Relays and Switches, Coral Springs Fl, U.S.A. |  |   | SCALE:<br>NONE  | SHEET 1 OF 1      |                            |                  |