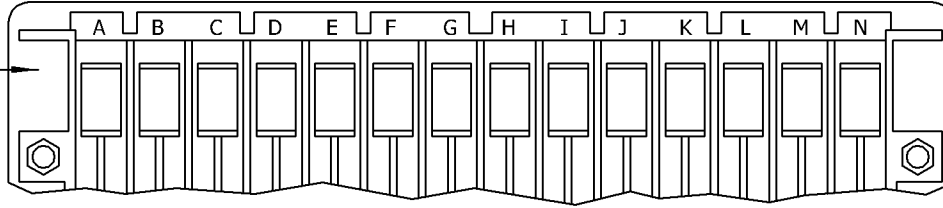


# TYPE FT-14 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

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

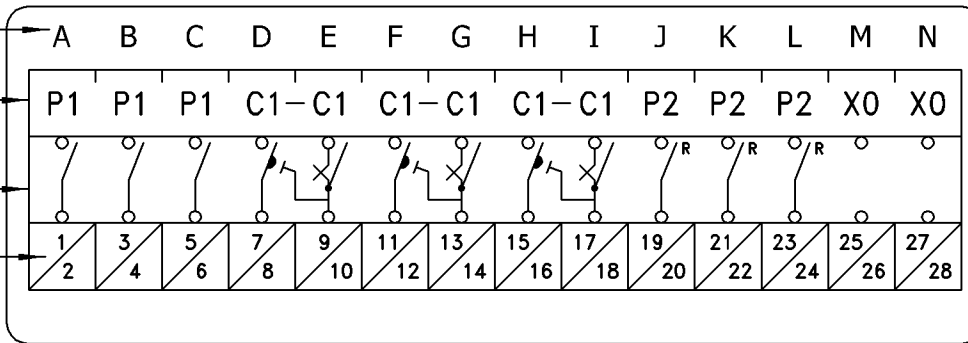


**STYLE No:**  
**FT4A12T06CN4174**

**CODE No:** 4174

**CLASS 1E:** NO

POLE  
POSITIONS  
SWITCH  
ARRANGEMENT  
INTERNAL  
SCHEMATIC  
TERMINAL NO.s  
(REAR OF SW)



No. POLES: 12

No. POTEN's: 6

No. CURR's: 6

TIE BARS: NONE

DRILL PLAN: 9666A30

INT SCH: 94A4174

**ARRANGEMENT: P P P C-C C-C C-C T T T X X**

Table 1 - Description of Poles for FT Flexitest Switches

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

Table 2 - Handle Colors

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

**TEST PLUGS:**

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

**SEPARATE SOURCE TEST PLUG (14 POS).**  
STYLE No: 1355D32G04

**IN-SERVICE SERIES TEST PLUG.**  
STYLE No: NONE

† = 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).

|  |  |                                    |   |                |                            |
|--|--|------------------------------------|---|----------------|----------------------------|
| 1<br>ECO EM2008-1224   | The information contained in this document has to be kept strictly confidential. Any unauthorized use, reproduction, distribution or disclosure to third parties is strictly forbidden.<br>ABB reserves all rights regarding Intellectual Property Rights. | DFT/DATE: R.Novoseletsky 3/12/2009 |   |                |                            |
|  | SOFTWARE TYPE:<br>AUTOCAD 2006   | CHKR/DATE: M.Uriguen 3/12/2009     |   |                |                            |
|  | ENG. REF: MFG DWG: FT14-4174<br>GEN DWG: 1619C94   | APPR/DATE: Tim Masters 3/12/2009   |   |                |                            |
|  | TITLE:<br><b>FT-14 SWITCH<br/>POLE ARRANGEMENT &amp; INT SCH</b>   |                                    | © Copyright 2008 ABB<br>All rights reserved | SIZE: <b>A</b> | DWG. NO:<br><b>94A4174</b> |
| ABB Protective Relays and Switches, Coral Springs Fl, U.S.A. |  | SCALE: NONE                        |   | SHEET 1 OF 1   |                            |