

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

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

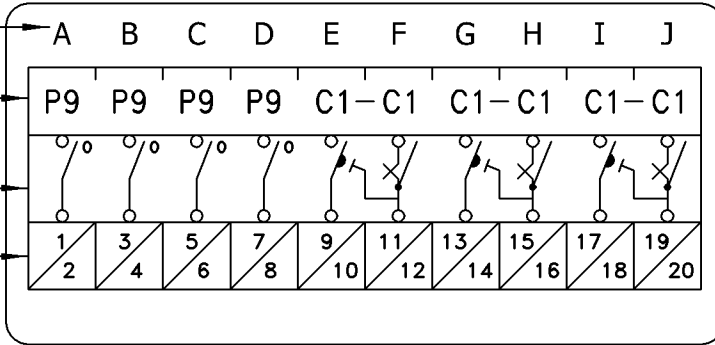


POLE  
POSITIONS

SWITCH  
ARRANGEMENT

INTERNAL  
SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



ARRANGEMENT:    O O O O C-C C-C C-C

**STYLE No:**            **9689A14G01**

**CODE No:**            **685**

**CLASS 1E:**            **NO**

No. POLES:            10

No. POTENTIALS:    4

No. CURRENTS:       6

TIE BARS:             NONE

DRILL PLAN:          129A500

INT SCHEMATIC:     991A685

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 †† 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: NONE**

ECO EM2007-1099 1

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SOFTWARE TYPE:  
**AUTOCAD 2006**

ENG. REF:  
**MFG DWG: FT1-685**  
**GEN DWG: 1616C24**

DATE: M.Uriguen 4/8/2008

CHKR: M.Uriguen 4/8/2008

APPR: Tim Masters 4/8/2008



TITLE:  
**FT-1 SWITCH**  
**POLE ARRANGEMENT & INT SCH**

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SIZE: **A**    DWG. NO: **991A685**    REV: **1**

ABB Protective Relays and Switches, Coral Springs Fl, U.S.A.

SCALE: **NONE**    SHEET 1 OF 1