

## **Trip Unit for ACB**

Cat. No.	Ref. No.	Description	
FTCPWS17PLUSF1&2	F101346	FTCPWS - 17 Plus for overcurrent and short circuit protection only	
FTCPWS18PLUSF1&3	F101347	FTCPWS - 18 Plus (Digital display) for overcurrent and short circuit protection only	
FTCPWS17PLUSF3	F101348	FTCPWS - 17 Plus for overcurrent and short circuit protection only (non-resettable)	
FTCPWS17PLUSF3-ENG	F101349	FTMCM - 18 Plus for overcurrent and short circuit protection only (non-resettable)	
FTCPWSPLUSUEF	F101350	Unrestricted Earth Fault option for FTCPWS - 17 and 18 Plus protection relay's	
FTCPWSLUSNTL100	F101351	100% rated neutral protection for FTCPWS - 17 and 18 plus protection unit	
FTCPWSPLUSNTL50	F101352	50% rated neutral protection for FTCPWS - 17 and 18 plus protection unit	
FTCPWSLUSUEF3P3W	F101353	3 phase 3 wire unrestricted Earth Fault option for FTCPWS - 17 plus and 18 plus	
FTCPWS30L-ENG	F101354	FTCPWS - 30L protection unit	
FTCPWS30LR	F101355	FTCPWS - 30L protection unit with restricted earth fault only (English)	
FTCPWS30L-ENGNR	F101356	FTCPWS - 30L protection unit (English version) without auto/manual reset button	
FTCPWS30H-ENG	F101357	FTCPWS - 30H protection unit	
FTCPWS30HR	F101358	FTCPWS - 30H protection unit with restricted earth fault only (English)	
FTCPWS30H-ENGNR	F101359	FTCPWS - 30H protection unit (English version) without auto/manual reset button	
FTCPWS40L-ENG	F101360	FTCPWS - 40L protection unit English version with MODBUS protocol	
FTCPWS40L-ENGNR	F101361	FTCPWS - 40L protection unit (English version) without auto/manual reset button	
FTCPWS40H-ENG	F101362	FTCPWS - 40H protection unit English version with MODBUS protocol	
FTCPWS40H-ENGNR	F101363	FTCPWS - 40H protection unit (English version) without auto/manual reset button	
FTCPWSREF	F101364	Restricted Earth Fault Protection (FTCPWS - 30 Only)	
FTCPWSSEF	F101365	Standby Earth Fault Protection (FTCPWS - 30 Only)	
FTCPWSNTSW	F101366	FTCPWS - 30/40 no-trip on fatal error (warn only) software facility	
FTCPWSCOM	F101367	Communications facility (FTCPWS ODBUS protocol)	
FTCPWSPU	F101368	FTCPWS-PRO Auxiliary power unit	
FTCPWSTU17	F101369	Portable Test unit (for FTCPWS - 17 or 18 plus) UK power lead	
FTCPWSPLUSTU-EURO	F101370	Portable Test unit (for FTCPWS - or 18 plus) Euro power lead	
FTCPWSROTU-EURO	F101371	Portable Test Unit ( for FTCPWS - 30/40) Euro power lead	
FTCPWSPYU	F101372	Portable Test Unit ( for FTCPWS - 30/40) UK power lead	
FTCPWSPPB	F101373	Portable power box (for FTCPWS - 30/40)	
FTCPWSMAC	F101374	Add-on Mechanical Alarm Contact (1x N/O)	
FTCPWSACNC	F101375	Add-on Mechanical Alarm Contact (1x N/C)	
FTCPWSAMM20	F101376	Spare PAMM for Use with FTCPWS - 20	
FTCPWSAMM30/40	F101377	Spare PAMM for use with FTCPWS - 30 or FTCPWS - 40	



## Trip Unit for ACB FTCTU

Versions	FTCTU27	FTCTU50
Breakers Supported & Protection features	Power-WAVE frame 1+2	Power-WAVE frame 1+2
Long Time (overcurrent) 0.4-1, increments 0.05 22 bands. Multiple classes to IEC 947-4.	×	
Long Time (overcurrent) 0.4-1, increments 0.05 44 bands.		
Multiple classes IEC 947-4 and Fuse banas		X
Short Time	×	×
Instantaneous	×	х
Reduced Inst Setpoint		×
Ground Fault Alarm	×	×
Ground Fault LIEE / REE / SEE		X
EURIN FUUR - UEF / KEF / SEF	 12 min	X 12 min
MCR	12 mm.	12 mmi. X
High Set Inst (HSIOC)	×	x
I/O (Physical I/O)		
IN/OUTPUTS		
Assignable outputs (4 avail) Assignable		X
Health indication relay		×
INPUTs		
General Inputs (4 avail)		×
Spring Charged Indication		
Breaker Closed and Connected		
Contact Position Switch	x	×
Status and Diagnostics:		
Trip Target	х	х
Trip Info (Magnitude / Phase)	×	Х
Trip Counter	×	х
Event Logger (trips, alarms, I/O)	×	Х
Current Alarm Relay based on current level (load shedding)		Х
Bad Health indication alarms		Х
Good Health Indication relay		×
Main contact maintenance indication		
Hardware Test Int erfaces		
24V DC	×	х
110-130V DC or 110-240V AC	×	×
Miscellaneous		
Settings lock / unlock	×	×
Metering		
Current (PH-L1, PH-L2, PH-L3, N)	×	×
Communications		
Modbus 4 wire		×
Leaend: $x = available function$		
= not available		



## **Electrical Requirements**

None: Plug in installation. Done on de-energized units.

## **Equipment Interfaces**

Power-WAVE Plus frame 1 & frame 2 Circuit Breakers. Trip units, for the most part, do not require direct connections to the equipment. All wiring is intended to connect to the circuit breaker or cassette.

Connections that are required for other equipment are the optional input, and relay output, the neutral sensor and the 'Earth leg' CT which uses specifically dedicated connection points on the breaker secondary connection terminals.



