## **SIEMENS**



# **Protection Systems**

SIPROTEC 7PJ81 Fast Tripping Module

Catalog E1.2

Answers for energy management.

#### 7PJ81 Fast Tripping Module

#### Description

The fast tripping module 7PJ81 series are designed for direct action to HV and MV switchgear in power station and substation due to its making/ breaking capacity. The kinds of variant meet for various applications and multi tripping objects. Control voltages of 110V DC, 125V DC and 220V DC are supported.

Some special concerning to 7PJ81 is taken into account. The picking-up voltage is restrained to range of 0.55-0.70Un. The picking-up power is increased to 5W or higher. These help to secure the stabilization against transient disturbance.

The lock-out variants 7PJ812 and 7PJ813 are respectively equipped with 10 and 4 normal open (NO) contacts, the lock-out variants 7PJ814 and 7PJ815 are respectively equipped with 8 normal open (NO)/2 normal close (NC) and 3 normal open (NO)/1 normal close (NC) contacts. The outputting contacts will remain on opposite position and tripping indicating light will be on after operation. The module can be electrically reset by locally pushing RESET button on the front panel or externally resetting input. No permanent power consumption is required due to itself cut-off of excitation circuit after operation. Only construction of flushing mounting is available.

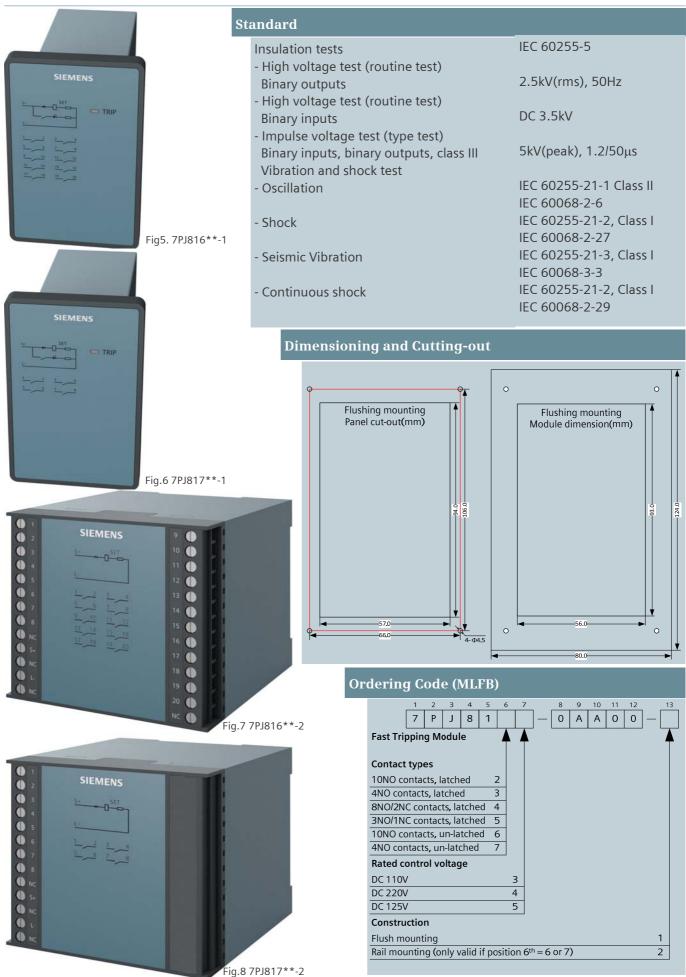
The non lock-out variants 7PJ816 and 7PJ817 are respectively equipped with 10 normal open (NO) and 4 normal open (NO) contacts. The outputting contacts and tripping indicating light will dropout after the excitation is removed. The power consumption after operation drops down to a low level. Both constructions of flushing and rail mounting are available.

The connection diagrams can be referred to Fig.1- Fig.8.

Technical Data			
	Electric	Rated control voltage Picking-up voltage Picking-up power Power consumption after op- eration, Un Operating time at 20°C/68°F Contact continuous current Contact breaking capacity	DC 110V, 125V or 220V (0.55-0.70)Un 5.0-6.5W, MLFB dependent 7PJ81 2/3/4/5: approx. 0.0W 7PJ81 6/7: 1.0-2.4W, MLFB de- pendent Typical value at approx. 8ms (excl. contact bounce time) 8A Resistive 3,040VA@380V AC 100W@250V DC Inductive 1,600VA@380V AC ( $\cos\varphi = 0.4$ ) 50W@250V DC (L/R = 40ms)
	Unit	Degree of protection Housing Terminals	IEC 60529 IP51 IP21
	Climatic	Recommended permanent operating temperature	-10°C to +55°C



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