

ACCESSORIES

TEMBREAK 2 LITE MCCBs AND SWITCH DISCONNECTORS

Electrical Control Using Internally Mounted Accessories

Electrical control accessories for the TemBreak 2 Lite range are designed with the installer in mind. Status and alarm contacts, remote tripping coils and undervoltage protection coils are of modular design and convenient to use.

Two Alarm Switches can be installed easily

Practical internal accessories can be installed with one touch

- *Auxiliary Switch*
- *Alarm Switch*
- *Shunt Trip*
- *Undervoltage Trip*

Unique accessory cover opens with one screw

Secure accessory cover retains MCCBS name plate

Undervoltage Trip

Shunt Trip

Alarm Switch (Left)

Auxiliary Switch

SECTION 4

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Connection Diagrams and Terminal Numbers

Accessory	Combination symbol	Connection diagram and terminal No.	Remarks
Shunt trip device (SH)		<ul style="list-style-type: none"> Without anti-burn switch 	Shunt trips are continuous rating without anti-burn switches.
Undervoltage trip device (UV)		<p>For AC/DC</p>	
Auxiliary switch (AX)			1pc Aux. SW installed.
			2pcs Aux. SW installed.
			4pcs Aux. SW installed.
Alarm switch (AL)			1pc Alarm. SW installed.
			2pcs Alarm. SW installed.

Allowed/ Maximum Accessory Combinations Moulded Case Circuit Breakers

Type	Number of poles	AX Auxiliary switch	AL Alarm switch	SH Shunt trip	UV Under voltage trip	AX AL	AX SH	AX UV	AL SH	AL UV	AX AL SH	AX AL UV
S1 0-SF	2											
1 0-SF S1 0-SF S1 0-SF 1 0-S S1 0-SC S1 0-S S1 0-SN	3-4											
2 0-SF 2 0-SF 2 0-SF 2 0-SC 2 0-S 2 0-S 2 0-N	3-4											

Notes:

①: The two-pole type breaker obtained by modifying a three-pole breaker by removing the conductive part of its central pole is regarded as the same as the three-pole type.

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Status Indication Switches

Ratings of Auxilary and Alarm AX/AL

The applicable load of the switch shall be no larger than the rating and no smaller than the minimum load.

Type of breaker	Standard						For microload ①			
	AC			DC			inimum load	DC		
	oltage	Current A		oltage	Current A			oltage	Current A Resistive load	inimum load
	Resistive load	Inductive load ②		Resistive load	Inductive load ②					
1 0-SF S1 0-SCF S1 0-SF 1 0-S S1 0-SC S1 0-S S1 0-SN 2 0-SCF 2 0-SF S2 0-SF 2 0-SC 2 0-S S2 0-S S2 0-SN	4 0	-	-	2 0	-	-	DC1 100mA	30	0.1	DC 1mA
	2 0	3	2	12	0.4	0.0				
	12	3	2	30	3	2				

Note: ① This is a custom-made product. When ordering for this product specify that it is intended for minute load use.

Note: ② The inductive load means power factor of no smaller than 0.4 and time constant of no larger than ms.

peration of AX and AL

Switch	reaker status	N	FF	TRIP
Auxiliary switch AX status		11/AXc-14/AXa Closed	11/AXc-14/AXa pen	11/AXc-14/AXa pen
		11/AXc-12/AXb pen	11/AXc-12/AXb Closed	11/AXc-12/AXb Closed
Alarm switch AL status		91/ALc-94/ALa pen	91/ALc-94/ALa pen	91/ALc-94/ALa Closed
		91/ALc-92/ALb Closed	91/ALc-92/ALb Closed	91/ALc-92/ALb pen

Remote Tripping Devices

Ratings of Shunt Trip S T

Type of breaker	Peak exciting current A							
	Rated voltage	AC			DC			
	100-120	200-240	3 0-4 0	24	4	100-120	200-240	
1 0-SF S1 0-SCF S1 0-SF 1 0-S S1 0-SC S1 0-S S1 0-SN 2 0-SCF 2 0-SF S2 0-SF 2 0-SC 2 0-S S2 0-S S2 0-SN	0.014	0.014	0.00	0.03	0.03	0.011	0.011	

Notes:

① The permissible voltage range is from to 110 of the rated voltage for AC or to 12 thereof for DC.

nsure that the voltage does not drop or exceed the permissible voltage range when S T is actuated.

② reaker contacts usually start opening within 30 ms after the rated voltage is applied to the breaker.