

RATINGS AND SPECIFICATIONS

TEMBREAK 2 CIRCUIT BREAKERS FOR 1000V AC

MCCB Electrical Characteristics to IEC 60947-2, EN60947-2, JIS C 8201-2-1 ANN.1

Frame Reference	Quantity	Unit	Condition	TB2 S 125		TB2 S250
Maximum In (A)				125		250
Model				VS125		VS250
Number of Poles				3		3
Type				NJ		NJ
Nominal current ratings						
	I_n	(A)	50°C	20,32	50,63,100 125	160,250
Electrical characteristics:						
Rated operational voltage	U_c	(V)	AC 50/60 Hz	1100	1100	1100
Rated insulation voltage	U_i	(V)		1100	1100	1100
Rated impulse voltage	U_{imp}	(kV)		8	8	8
Ultimate breaking capacity (IEC, JIS,AS/NZS)	I_{cu}	(kA)	1100V AC	4	6	6
Service breaking capacity (IEC, JIS,AS/NZS)	I_{cs}	(kA)	1100V AC	4	4	4
Protection						
Adjustable thermal, adjustable magnetic Utilisation Category				■ A	■ A	■ A
Installation						
Front Connection (FC)				■	■	■
Extension Bar (FB)				•	•	•
Cable Clamp (FW)				•	•	•
Rear Connection (RC)				•	•	•
Plug-in (PM)				•	•	•
Din Rail Mounting (DA)				-	-	-
Dimensions:						
height		(mm)		155	155	165
width		(mm)	3 pole	90	90	105
depth		(mm)		68	68	68
Weight	weight	(kg)	3 pole	1.1	1.1	1.5
Operation:						
Direct Opening Action				■	■	■
Toggle operation				■	■	■
Door mounted (HS)/ Breaker mounted handle (HB)				•	•	•
Motor operation				•	•	•
Endurance	Electrical Mechanical	cycles cycles	1100V AC	1,000 7,000	1,000 7,000	1,000 7,000

SECTION 1

CIRCUIT BREAKERS FOR 1000V AC ARE AVAILABLE UP TO 1250A. ASK FOR DETAILS.

2

Ratings and Specifications

TemBreak

Mining Series (1100V)

Ampere Frame	400	630	800	1250					
Type	XV400NE	XV630PE	XV800PE	XV1250NE					
Number of poles	3	3	3	3					
RATED CURRENT (A). In	NRC ASR	NRC ASR	NRC ASR	NRC ASR					
Calibrated at 45°C as standard, 50°C on request.	min.max. 250 125 250 400 200 400	min.max. 630 315 630	min.max. 800 400 800	min.max. 1000 500 1000 1250 630 1250					
AC RATED INSULATION VOLTAGE [Ui]	1100	1100	1100	1100					
AC RATED BREAKING CAPACITY sym. r.m.s. [kA]									
Cos φ = 0.3	1100V 900V	12.5	12.5	12.5	20				
OUTLINE DIMENSIONS (mm)									
Weight (kg) Ⓞ marked standard type									
CONNECTIONS AND MOUNTINGS									
Front connected (FC)	Terminal screw (FCS) Attached flat bar (BAR) Solderless terminal (PWC)	Ⓞ Ⓞ (BAR) -	- Ⓞ -	- Ⓞ -	- Ⓞ -				
Rear connected (RC)	Bolt stud (REB) Flat bar stud (REF)	- Ⓞ	- Ⓞ	- Ⓞ	- Ⓞ				
Plug-in (PM)	For switchboard (PRC/PMB) For distribution board	Ⓞ -	Ⓞ -	Ⓞ -	Ⓞ -				
Draw-out (DO)		-	-	-	-				
STANDARD FEATURES									
ON-OFF colour indication		•	•	•	•				
Trip button		•	•	•	•				
PROTECTIVE FUNCTIONS									
Electronic type									
Adjustable LTD, STD & INST.		•	•	•	•				
Adjustable GFT or Adjustable PTA (option)		• (PTA only)	•	•	•				
Trip Indicators (option)		• ⑩	• ⑩	• ⑩	• ⑩				
Thermal-magnetic type									
Thermal and fixed magnetic trips		-	-	-	-				
Thermal and adjustable magnetic trips		-	-	-	-				
Adjustable thermal and fixed magnetic trips		-	-	-	-				
Adjustable thermal and magnetic trips		-	-	-	-				
ACCESSORIES (option)									
CODE									
Internally mounted	Auxiliary switch AX, AXE Alarm switch AL, ALE Shunt trip SHT Undervoltage trip UVT	•(AX) •(AL) • • ⑨	•(AX) •(AL) • • ⑨	•(AX) •(AL) • • ⑨	•(AX) •(AL) • • ⑨				
Externally mounted	Motor operator MOT Handle operating mechanism Variable depth type OHE, OHJ, OHH Handle extension EHA Mechanical interlock Front type MIF, Rear type MIB Handle holder HH Handle lock HL Terminal cover Front conn. type TCF, Rear conn. / plug-in type TCR Interpole barrier TBA Accessory lead terminal ⑫ LTF, ⑬ LTS Door flange D.F. IP20 Protection (Plug-in type) IP20	• •	• •	• •	• •				

Notes:

- NRC : Nominal Rated Current
- ASR : Adjustable Setting Range
- Ⓞ : Standard. This configuration is used unless otherwise specified.
- Ⓢ : Optional. Specify when ordering.
- : Yes or available.
- : No or not available.
- ⑨ : For AC UVT, a UVT Controller is mounted externally.

- ⑩ : One is supplied with every five breakers. Please specify if more are required.
- ⑫ : Line side interpole barriers are supplied as standard.
- ⑬ : Available on request, contact Terasaki for details.
- ⑭ : Draw-out leads, horizontally.
- ⑮ : Draw-out leads, vertically.