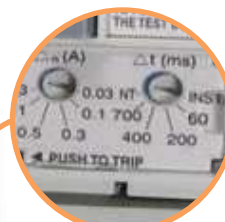


Low voltage moulded case circuit breakers with residual current protection

Main features and advantages

Breaking capacities as on MCCBs



Adjustable residual current tripping thresholds between 30mA and 3A. Adjustable time delay for residual current protection between 60ms and 700ms including INST (instantaneous) and NT (No Trip).



Type A: Tripping is ensured for residual sinusoidal AC in the presence of residual pulsating DC.



Voltage Presence LED Indicator and Trip Indicator (the yellow button pops up to indicate tripping due to residual current)



Test Button (to test the residual current detection and tripping system)



Dielectric test device plug (to allow dielectric testing with the EB2R closed – ON)



Adjustable overload protection I_R can be set between 63% and 100% of I_n

Low voltage moulded case circuit breaker with residual current protection EB2R

Main advantages:

- Combined protection against overloads, short circuits and earth leakage integrated in one device
- The new EB2R save the space
- The EB2R has the same dimensions and fixing as the EB2 MCCBs
- The EB2R eliminates the need for either an external relay with current transformers or add-on block
- Residual current is adjustable
- Earth leakage protection time delay is adjustable
- Wide range of accessories (as MCCB – only shunt/undervoltage trip units can not be fitted to EB2R)



ETIBREAK EB2R 125

Type	I_n [A]	Code No.	Poles	I_{cu}/I_{cs} [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2R 125/3L 20A 3P	20	004671501	3	25/19	0.63-1/12	1,1	1
EB2R 125/3L 32A 3P	32	004671502	3	25/19	0.63-1/12	1,1	1
EB2R 125/3L 50A 3P	50	004671503	3	25/19	0.63-1/12	1,1	1
EB2R 125/3L 63A 3P	63	004671504	3	25/19	0.63-1/12	1,1	1
EB2R 125/3L 100A 3P	100	004671505	3	25/19	0.63-1/12	1,1	1
EB2R 125/3L 125A 3P	125	004671506	3	25/19	0.63-1/10	1,1	1
EB2R 125/4L 20A 4P	20	004671507	4	25/19	0.63-1/12	1,4	1
EB2R 125/4L 32A 4P	32	004671508	4	25/19	0.63-1/12	1,4	1
EB2R 125/4L 50A 4P	50	004671509	4	25/19	0.63-1/12	1,4	1
EB2R 125/4L 63A 4P	63	004671510	4	25/19	0.63-1/12	1,4	1
EB2R 125/4L 100A 4P	100	004671511	4	25/19	0.63-1/12	1,4	1
EB2R 125/4L 125A 4P	125	004671512	4	25/19	0.63-1/10	1,4	1

Note: all internal and external accessories can be used with EB2R – only exceptions are DA shunt trip unit and NA under-voltage trip unit (cannot be fitted to EB2R)

Residual current monitor and pre trip module - ETIBREAK EB2R 125

Residual current monitor and pre trip module				EHBK-M EBN 125			
Type	I _n [A]	Code No.	Poles	I _{cu} /I _{cs} [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2R-M 125/3L 20A 3P	20	004671513	3	25/19	0,63-1/12	1,1	1
EB2R-M 125/3L 32A 3P	32	004671514			0,63-1/12	1,1	
EB2R-M 125/3L 50A 3P	50	004671515			0,63-1/12	1,1	
EB2R-M 125/3L 63A 3P	63	004671516			0,63-1/12	1,1	
EB2R-M 125/3L 100A 3P	100	004671517			0,63-1/12	1,1	
EB2R-M 125/3L 125A 3P	125	004671518			0,63-1/10	1,1	
EB2R-M 125/4L 20A 4P	20	004671519	4		0,63-1/12	1,4	
EB2R-M 125/4L 32A 4P	32	004671520			0,63-1/12	1,4	
EB2R-M 125/4L 50A 4P	50	004671521			0,63-1/12	1,4	
EB2R-M 125/4L 63A 4P	63	004671522			0,63-1/12	1,4	
EB2R-M 125/4L 100A 4P	100	004671523			0,63-1/12	1,4	
EB2R-M 125/4L 125A 4P	125	004671524				1,4	

ETIBREAK EB2R 250

Type	I_n [A]	Code No.	Poles	I_{cu}/I_{cs} [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2R 250/3L 160A 3P	160	004671581	3	25/19	0.63-1/13	1,5	1
EB2R 250/3L 250A 3P	250	004671582	3	25/19	0.63-1/10	1,5	1
EB2R 250/4L 160A 4P	160	004671583	4	25/19	0.63-1/13	1,9	1
EB2R 250/4L 250A 4P	250	004671584	4	25/19	0.63-1/10	1,9	1

Note: all internal and external accessories can be used with EB2R – only exceptions are DA shunt trip unit and NA under-voltage trip unit (cannot be fitted to EB2R)

Residual current monitor and pre trip module - ETIBREAK EB2R 250

Residual current monitor and pre-trip module – EB2R-M EB2R-M 250							
Type	I _n	Code No.	Poles	I _{cu} /I _{cs}	Adjustment thermal/magnetic	Weight	Packaging
	[A]			[kA]		[kg]	[pcs]
EB2R-M 250/3L 160A 3P	160	004671585	3	25/19	0,63-1/13	1,5	1
EB2R-M 250/3L 250A 3P	250	004671586			0,63-1/10	1,5	
EB2R-M 250/4L 160A 4P	160	004671587	4		0,63-1/13	1,9	
EB2R-M 250/4L 250A 4P	250	004671588			0,63-1/10	1,9	

Residual current monitor and pre trip module (optional)

- normally open alarm contact (2A, 250V AC) closes on detection of residual current. Alarm threshold is adjustable.
- Green LED indicates voltage is present
- Red LED provides visual indications of residual current.
- Can be configured to provide trip + alarm or alarm only.
- Remote trip terminals allow tripping by push-button
- Can be configured to provide voltage drop protection.



Technical data

Product series	description	unit	condition	EB2R	EB2R
Model-type				125L	250L
Number of Poles				3, 4	3, 4
Nominal current ratings					
	I_n	(A)	50°C	20, 32, 50	160, 250
				63, 100, 125	
Electrical characteristics					
Rated operational voltage	U_e	(V)	AC 50/60 Hz	525	525
Rated impulse withstand voltage	U_{imp}	(kV)		8	8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I_{cu}	(kA)	525V AC	8	10
			440V AC	15	15
			400/415V AC	25	25
			220/240V AC	35	35
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	525V AC	6	7.5
			440V AC	12	12
			400/415V AC	19	19
			220/240V AC	27	27
Protection					
Adjustable thermal, adjustable magnetic				■	■
Residual current protection, Type A				■	■
Utilization category				A	A
Installation					
Front connection				■	■
Attached flat bar				•	•
Solderless terminal (cable clamp)				•	•
Rear connection				•	•
Plug-in				-	-
DIN rail mounting				•	-
Dimensions	h	(mm)		155	165
	w	(mm)	3 pole	90	105
			4 pole	120	140
	d	(mm)		68	68
Weight	W	(kg)	3 pole	1.1	1.5
			4 pole	1.4	1.9
Operation					
Direct Opening Action				■	■
Toggle operation				■	■
Variable depth / direct mount operating handle				•	•
Mechanical interlocks				-	-
Motor operator				•	•
Endurance	Electrical	cycles	440V AC	30000	30000
	Mechanical	cycles		30000	30000
Standards	IEC 60947-2, EN 60947-2				

■ Standard • Optional - Not Available