Safety Breaker and Earth Leakage Breaker, HB and BJS Type

Complete range of products with a compact design.

Safety Breaker HB a	nd S-HB T	уре	_										
Dimensions, mm	010		70							۲o			
Appearance	ON	32 36 (max)			Safety I	Breaker,	НВ Туре		32	37.2 55	S-НВ Туре		
Mounting Pitch, mm	1963 y									62 M4			
Туре	BS11106TV	BS1110TV	BS1111TV	BS1112TV	BS1113TV	BS2022T\	/BS2023TV	BS220TV	BS230TV	BS22021	V BS2302TV		
Poles & Elements			2P1E			2F	P2E	2P	1E	2P2E			
Rated Current, In	6A	10A	15A	20A	30A	20A	30A	20A	30A	20A	30A		
Rated Voltage, Ue	AC240V	, 1.0kA (6A), 1.5kA (10, 15, 2	0, 30A)	AC120/24	40V, 1.5kA	/, 1.5kA AC240/415V, 2.5kA					
Tripping Mechanism				T	erminal N	lethod O	peration						
Arc Quenching Method	Natural Quenching												
Interrupting Time	10ms (100%) 5ms (50%)												
Passage of Short	23x10 ³ A ² Sec (100%) 5.7x10 ³ A ² Sec (25%)							5%)					
Weight	0.07kg 0.08kg 0.09kg 0.11k								.11kg				
Application	Air Conditioner, Water Pump, Water Heater												

1. Use 20A for normal current branch circuits, and 30A for high capacity dedicated circuits;

2. Use 15A or less for machine protection, after consideration of its characteristic: inrush current and usual currents;

3 The data in capacity mentioned above are just for your reference, which are Panasonic's experimental ones;

Earth Leakage Breaker BJS Type

	1													
Dimensions, mm		1												
Appearance		32 36 (max)	32 <u>36</u> 49 (max)											
Mounting Pitch, mm														
Туре	BJS30208A2	BJS30308A2	BJS15125	BJS15225	BJS15325	BJS20125	BJS20225	BJS20325	BJS30125	BJS30225	BJS30325			
Poles & Elements	2P	0E	2P2E											
Rated Current, In	30)A		15A			20A		30A					
Rated Voltage, Ue	AC120)-240V		AC100-240V										
Rated Operating Current	15mA	30mA	10mA	15mA	30mA	10mA	15mA	30mA	10mA	15mA	30mA			
Rated Non- operating Current	7.5mA	15mA	6mA	7.5mA	15mA	6mA	7.5mA	15mA	6mA	7.5mA	15mA			
Rated Short-time Current		1.5kA												
Phase & Wiring Configuration	1Ø	1Ø2W 1Ø2W, 1Ø3W												
Operating Time	 	Within 0.1 Second												
Handle Type	Stan	Standard -												
Connecting Method		For direct installation of electrical wiring												
Weight	0.1	lkg	0.09kg											
Overload Current Tripping Mechanism	Nc	one	Thermal Operation											
Application	Application Water Heater, Refrigerator, Fleezer													
1 Deterlate entitions a		واللا منا مالله					ملك مالعاته		Latina, dia .					

1. Rated short-time current means that although short-circuit protection is not possible, the internal circuitry and conductors can withstand 1.5kA for 0.02 seconds;

2. Ambient temperature range for usage: -10°C to +50°C;

3. Disconnect electrical wiring before measuring insulation resistance between wires;

Safety Breakers BSB1

Safety breakers BSB1 are the ideal solution for protection of your appliances, they provide high reliabitity with aesthetic look, protect all kinds of home appliances against thermal overload with ratings from 10A to 30A. Available flush mounted safety breakers in Matix coverplates and Magic advance coverplates, and surface mounted safety breaker in plastic backbox.

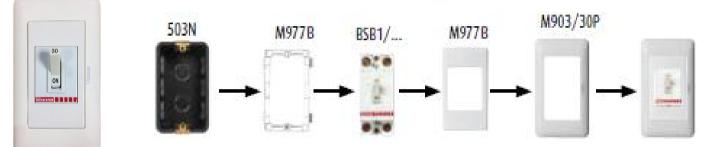
Selection Table of BSB1 Safety Breakers



Safety Breakers	BSB1/10	BSB1/15	BSB1/20	BSB1/30
Poles and Elements	2P1E	2P1E	2P1E	2P1E
Rated Current, In	10A	15A	20A	30A
Rated Voltage, Ue	220VAC	220VAC	220VAC	220VAC
Rated Short Circuit Current, Icu	1.5kA	1.5kA	1.5kA	1.5kA
Weight	0.10kg	0.10kg	0.10kg	0.10kg

BSB1/10 BSB1/15 BSB1/30

A flush-mouned safety breaker with plastic cover plate, M903/30P

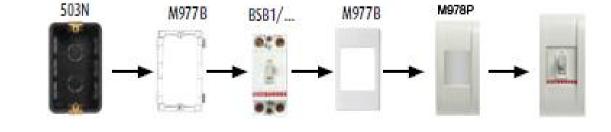


A surface-mouned safety breaker with plastic cover plate



A plastic mini-box, surface-mounted safety breaker with new design, M978P





Disjoncteur Dismatic

New circuit breaker and switch combination for protection of air-conditioning systems.

Design engineers today are trying to systematically reduce individual components, this is a key factor of cost-efficient design.

Normally less components also means more space which is enabled by the design of compact products, in order to support Design Engineers in their search for parts reduction. E-T-A offers a combination of circuit breakers and switches, these are thermal circuit breakers providing overcurrent protection and serve as an On/Off switch for devices, machinery and equipment at the same time, E-T-A is the world market leader in circuit protection and offers a wide range of circuit breaker and switch combinations, it does not only include various designs and actuating methods, but also a wealth of color, marking and illumination options.

New: type 3130 with push button operation

The latest model in the circuit breaker/ switch combination range of E-T-A is the single pole thermal circuit breaker type 3130 with push button operation, the design was initiated by our French customer Legrand who uses E-T-A's circuit breakers in installation frames of On/Off switches for air-conditioning systems, the 3130 provides overcurrent protection for the installtion cables leading from the swtich frame to the air-conditioning system, in the event of an overcurrent the E-T-A circuit breaker trips, goes into Off position and reliably disconnects the air-conditioning system and its cables from the supply network. Another feature of type 3130 with push button operation is a new option for electrical connection: it can be ordered with 45° angled screw terminals with M4 screws and clamping piece, this makes the 3130 a valuable and highly suitable component for installtion technology.



The new installation frame "Dismatic" made by Legrand

A Choice of applications

E-T-A circuit breaker and switch combinations are suited for a wide range of applications due to their robust and reliable design, including medical equipments, professional tools, household appliances and gardening tools, for example in France, E-T-A products are used by manufacturers of floor sanding machines and concrete vibrators. another application field is sailing yachts where the E-T-A circuit breakers are installed in central dashboards, they serve for switching on and off of all loads on board such as bilge pump the anchor light of interior lights, at the same time they protect cables and loads against possible damages caused by overheating in the event of overcurrents.



New E-T-A circuit breaker version type 3130 with two push buttons

Diruptor Range 7000

-Technical Data

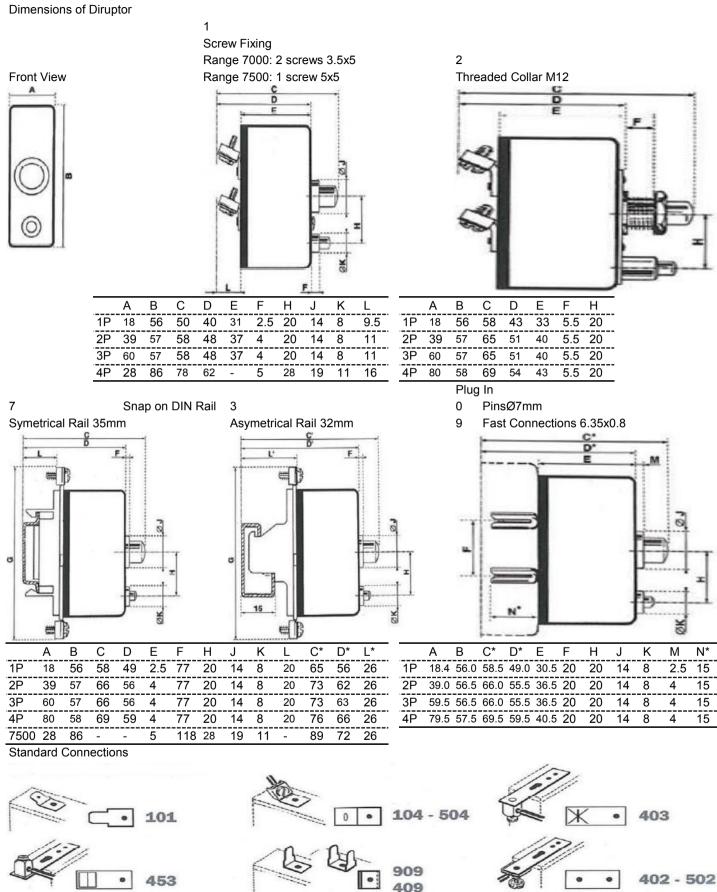
Range									70	000						
	0	Plug			1			2				Sna	p on [ail	5 Push-push
Mounting	9	-			Flus	h Mo	unting 2	Flush	Mounti	ng Thr	eaded	3	Asyr	netric	al	
-	Plug i	n base	for Prir	nt Circu	Scre	ws on	Front Face	Coll	ar on	Front	Face	7	Sym	etrica	al	
		and the second second			1			1	1				-			
						-							l.,			
						17			61							
							1		No.	1						
									Nº-	1						
						1			10							P.
		6							11/2	1						
		7														
			7							/		*				
		/												r -		
												1	CA			
								. <u>.</u>					0			i
Number of Poles	1	2	3	4	1	2	3	1	2	3	4	1	2	3	4	1
Standard Connections	0	707	9	409	101-	-104-2	204-409	101	-104-2	204		402-	413			101-104-409
				909	463-	-514(2	2)-909	409	463-5	514(2)	l				<u>.</u>
Rated Votlages	230/	400V	'AC,7	2VDC)											
Release Characteristics																
Thermal	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Rated Current, A	20	20	20	20	40	32	32	40	32	32	32	40	32	32	32	40
Thermal-magnetic	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Rated Current, A	20	20	20	20	40	32	32	40	32	32	32	40	32	32	32	40
Magnetic Only (1)							14A eff. 20	ם אר	C May	<i>r</i> i						_
Rated Current, A (1)	.											.				i
Mixed Poles	-				ļ -			-				- 				_
Special Characteristics				•				•								
Number of Electrical Cycles		80	000			80	000		80	00			80	000		8000
Breaking Capacity					Up) to 1	500A, AC/	1500/	A, DC	48V(56V)/	800A	, DC7	72V(9	0V)	
Tropicalization																
Compensation																
Adjustment at 60℃																
Special Contacts, thermal onl							•								•	
Special Adjustment for Magnetic Relea							•									
Outside Control of Release	[On Re	eque	st					
Auxiliary Contacts																
Normally Open							•									•
Normally Closed									•						•	•
Changeover																•••••••••••••••••••••••••••••••••••••••
Marking																•••••••••••••••••••••••••••••••••••••••
Raised Base							-	- 1						-		
Base for Print Circuit							-									•••••••
Base for Rail DIN		•					-		•	•	•					
Waterproof Cap					} !∎			4				* ! •				!

Diruptor Range Option HP and 7500

Technical Data

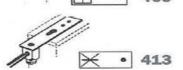
Range							Opti	on HF)							7500
	0	Plug	-in		1			2				Snap	o on [DIN R	ail	1
Mounting	9				Flus	h Mo	unting 2	Flush	Mounti	ng Thr	eaded	3	Asyr	netric	al	Flush Mounting 1
	Plug i	n base	for Pri	nt Circu	Scre	ws on	Front Face	Colla	ar on	Front	Face	d7	Sym	etrica	1	Screw on Front Face 3 Asymetrical 7 Symetrical
												4		•		
Number of Poles	1	2	3	4	1	2	3	1	2	3	4	1	2	3	4	1
Standard Connections	0	707	9	409 909	101-	104-4	463-514	101-	104-4	109-5	14	402-	413			502-504
Rated Votlages	+ -							230/4	400V	AC,30)VDC	. .)				
Release Characteristics	i				Τ			1				T				 !
Thermal					+ -			·4				+				2
Rated Current, A	+ 				<u>†</u>			1				<u>+</u>				100
Thermal-magnetic	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Rated Current, A	20	20	20	20	40	32	32	40	32	32	32	40	32	32	32	70
Magnetic Only (1)	+ ¦				+							+				+
Rated Current, A (1)	-				-			-				-				-
Mixed Poles					∦ ¦ -			·				+ -				+ - -
Special Characteristics	╂╼╼╼╼ ╏ ■				 !∎							•				•
Number of Electrical Cycles	<u>+</u>	80	00		†	80	000	1	80	00		1	80	000		8000
Breaking Capacity	<u>+</u>							6kA, AC								
Tropicalization	<u>}</u>															 ! B
Compensation	• -				╆ ¦ -			· 				+ -				+ -
Adjustment at 60°C	; ∎		 I		 !∎	 I						•				•••••••••••••••••••••••••••••••••••••••
Special Contacts, thermal onl	t (-				+ _							÷				÷
Special Adjustment for Magnetic Relea	+				} ¦ ∎			·4								•••••••
Outside Control of Release	<u>+</u> -				i			i	On Re	aues	_ st	.i <u>-</u>				±
Auxiliary Contacts	i															
Normally Open					 _							T -	 -	 -		
Normally Closed					<u>∔</u>			·				· <u>+</u>	 -	 -		-
Changeover					+ _							+ _		 -		÷
Marking			 P									÷	 •			+
Raised Base	<u> </u>				<u>∔-</u>	i		·{				<u></u> <u> </u> + - <u>−</u>	-			+
Base for Print Circuit					<u>+</u> -			·				+				-
Base for Rail DIN					+			·				+				+
					<u> </u>			·			<u>-</u>	+	<u>-</u>			+
Waterproof Cap								į 🔳								-

Diruptor Range 7000, Option HP and 7500



204

.



www.teatonelec.com

463

•

Diruptor Range 7000, Option HP and 7500

How to find your reference

	Range Poles	Control Mounting Connection	Rated Current Curve Option Option						
		System							
Code	Poles	Code Control System	Model Mounting						
1	1 Pole	0 Without Button/Shunt for Neutr							
2	2 Pole	1 Without Trip Button	1 Flush mounting, 2 screws on front face						
3	3 Pole	2 With Trip Button	2 Flush Mounting, threaded collar on front face						
4	4 Pole	p	3 Snap on DIN						
5	Range 7500, 1 Pole		5 Push-push, threaded collar on front face						
9	Accessories		6 Without fixation						
-			7 Snap on DIN symetrical rail						
Code	Standard Connection		9 Plu-in base for print circuit						
	1, 2, 5: Flush mounting	models							
101), 6.35x0.8 at 45 ⁰ , In≤15A	 Rated Current						
104		with clamps for cable up to 1x6mm ² , In≤2							
204		screws for cable up to 1x6mm ² , In>20A	Range 7000						
409	Fast connection (male)		Thermal, A 0.04-40 0.04-32						
453		als, transversal hole, In≤40A	Thermal-magnetic, A 0.10-40 0.10-32						
463		nals, longitudinal hole, In≤40A	Magnetic only, A 14-20 14-20						
504		ws with clamps, range 7500							
514		1000000000000000000000000000000000000	m ² Range 7500						
	3, 7: Snap on DIN rail r		Thermal, A 2-100						
402	Flat terminals, screws		Thermal-magnetic, A 2-70						
413		s, longitudinal hole, In≤40A							
502		with clamps, range 7500	 Range HP						
		dels, terminals design on request	Thermal-magnetic, A 2-40 2-32						
	9: Plug-in base for circ								
409	Fast connections (male		 Curve						
909		ns (male), 6.35x0.8, at 90 ⁰ , In>20A	Thermal T						
	0: Plug-in		Magnetic only M						
707	Pins Ø7.2mm between	axies range 7000	Thermal-magnetic, EN 60898 C						
Code	Option		Code Option						
0040	7000 Range		7500 Range						
	Auxiliary contacts		52 Special adjustment for magnetic release						
01	NC: Normally closed, s	soldered connections	53 Changeover auxiliary contact						
02	NO: Normally open, so		55 Power contacts delivered with shunt						
81	NC: Normally closed, 2		7000/7500 Range						
82	NO: Normally open, 2.	8x0 5 connections	10 Reinforced tropicalization						
84	Changeover, 2.8x0.5,		40 Wihtou lock						
	Others		41 Individual checking for shocks						
05		gh peak of current, thermal release or							
20		ion, thermal: 2-30A, thermal-magnetic: 3-							
42	Special adjustment for		Diruptor Range 7						
44	Red pushbutton "On"		■ 2 Poles						
47		ounting from threaded collar	 With trip button off 						
48	Winded binetallic strip		 Snap on symetrical DIN rail 						
40 69		er nut for drilling 14.5mm	 Shap on synetrical Division Flat terminals with clamps 						
70	Power contacts deliver								
70 71									
<u>71</u> 72	Nuts for threaded colla	104, delivered without screw and clamp							
73		or, top screws delivered separately	 Auxiliary contact NO Reinforced tropicalization 						
			Reinforced tropicalization						

www.teatonelec.com