

The **easy** choice for reliable performance!

The **Easy**9 range provides electrical protection in residential buildings, and gives you peace of mind, ease of installation and reliability.



COMPLETE RANGE

To address wide range of applications in the residential segment



EASY TO SELECT

With a limited number of references and clear marking charter



EASY TO INSTALL

Ergonomic system of installation



RELIABLE

High level of quality from a proven manufacturer



SUSTAINABLE

Green Premium compliant

The **Easy**9 range includes:

- MCBs for short-circuit and overload protection,
- RCCBs to protect people against electric shocks,
- RCBOs combining the functions of MCBs and RCCBs in a compact size,
- MSUs for over-voltage protection,
- Comb busbars and enclosures to simplify the installation of all devices,
- And SPDs for lightning protection.

Made in EU by the leading expert in electrical protection technologies!



A wide range to address applications in the residential segment



Miniature Circuit Breaker

- Prevent damage to the installation in the event of a short-circuit
- Increased safety for the end user in the event of rearming after a short-circuit



Residual Current Circuit Breaker

 Offers protection against earth leakage current



Residual Current Breaker with overcurrent protection

- Can be supplied from the bottom for a direct association with an Easy9 Comb Busbar
- Compatible with MSU
- Saves time during connection



MSU

- Can be associated directly with MCBs* and RCBOs
- Protects electronic equipment in the installation in the event of a network voltage fluctuation







Surge Protection Device

- Available in 1P+N and 3P+N
- Maximum discharge capacity of 20 kA



Comb Busbar

- Compatible with all configurations; horizontal and vertical
- Can be sawn and cut
- Unused teeth can be insulated with tooth covers
- Less connections and cabling errors
- Saves time and space



Enclosures

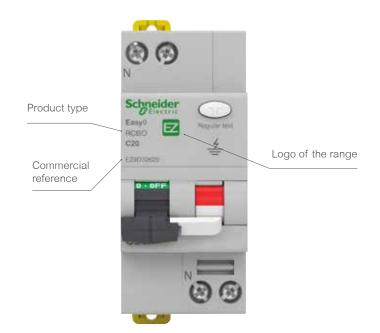
- Wide range including 1, 2 and 3 rows enclosures
- Fitted with a smoked or a plain reversible door opening to 180°
- Ergonomic design and easy installation
- Devices in a harsh environment protected by IP65 enclosures



A clear marking charter

With this new marking charter and user-friendly references it's now **easy** to identify the product functions in your local store or even when performing maintenance and other interventions.

All the important information, from product type to reference number, is now visible at a glance, and remains visible even after the device has been installed in the cabinet.





And an **ergonomic** system of installation

This installation system saves cabling time and offers an impeccable look of your switchboard thanks to both horizontal and vertical **Easy**9 comb busbar.

Our new ergonomic system offers both top and bottom feeding for the main incomer and improves installation. Especially for multi-row application, connection time between rows can be significantly reduced, thanks to our vertical comb busbar.





High level of quality from a proven manufacturer

Schneider Electric has a history of innovation stretching back for more than 180 years. We are the worldwide leader in electrical distribution, with more than 30 R&D centers and 200 plants worldwide.

Our whole **Easy**9 range is IEC compliant (60670-1 and 24) and has been designed to ensure maximum reliability. From design to components, our range has been through exhaustive testing: breaking, endurance, fire, robustness, environment tests... Every single **Easy**9 device is manufactured in our own facilities in Europe, with standardized quality and control.







An environmentally friendly range

We are proud of the fact that our Easy9 products are compliant with the RoHS and Reach requirements, and carry our Green Premium ecolabe providing complete environmental information on product life cycle and end of life, and use minimal quantities of hazardous substances.





Miniature circuit breaker

6000 A - B &C Curves

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1P

Circuit breakers		
Rating (In)	B Curve	C Curve
6 A	EZ9F15106	EZ9F35106
10 A	EZ9F15110	EZ9F35110
16 A	EZ9F15116	EZ9F35116
20 A	EZ9F15120	EZ9F35120
25 A	EZ9F15125	EZ9F35125
32 A	EZ9F15132	EZ9F35132
40 A	EZ9F15140	EZ9F35140
50 A	EZ9F15150	EZ9F35150
63 A	EZ9F15163	EZ9F35163
Width in 9-mm modules	2	

3P



Circuit breakers		
Rating (In)	B Curve	C Curve
6 A	-	EZ9F35306
10 A	-	EZ9F35310
16 A	EZ9F15316	EZ9F35316
20 A	EZ9F15320	EZ9F35320
25 A	EZ9F15325	EZ9F35325
32 A	EZ9F15332	EZ9F35332
40 A	-	EZ9F35340
50 A	-	EZ9F35350
63 A	-	EZ9F35363
Width in 9-mm modules	6	

4P

Circuit breakers	
Rating (In)	C Curve
10 A	EZ9F35410
Width in 9-mm modules	8



Connection

Certified compliant IEC/EN 60898-1

Additional feature

Operating temperature

Storage temperature

Rigid copper cables		
6 to 32 A	1 to 25 mm ²	Tightening torque: 2 N.m
40 to 63 A	1 to 35 mm ²	Tightening torque: 3.5 N.m

Flexible copper cables		
6 to 32 A	1 to 16 mm ²	Tightening torque: 2 N.m
40 to 63 A	1 to 25 mm ²	Tightening torque: 3.5 N.m

According to IEC/EN 60898-1		
Breaking capacity (Icn)		
Ph/N	230 V AC	

Ph/N	230 V AC	4500 A
Ph/Ph	400 V AC	4500 A
A al aliti a m al ala ama atam	1-41	
Additional character		
	Electrical	4,000 cycles
Endurance (O-C)		4,000 cycles 10,000 cycles

-25°C to +60°C -40°C to +85°C



Miniature circuit breaker

6000 A - C Curve

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1P+N

Circuit breakers	
Rating (In)	C Curve
10 A	EZ9P35610
16 A	EZ9P35616
Width in 9-mm modules	2

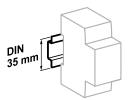
Connection

Rigid copper cables

6 to 40A 1 to 16 mm² Tightening torque: 2 N.m

Flexible copper cables

6 to 40 A 1 to 16 mm² Tightening torque: 2 N.m



Clip on DIN rail 35 mm.



Indifferent position of installation.

Certified compliant IEC/EN 60898-1

Additional feature

According to IEC/EN 60898-1

Breaking capacity (lo	cn)		
Ph/N	230 V A C	6000 A	
Ph/Ph	400 V A C	6000 A	

Additional characteristics

Endurance (O-C)	Electrical	4,000 cycles	
	Mechanical	10,000 cycles	
Operating temperature		-25°C to +60°C	
Storage temperature		-40°C to +85°C	

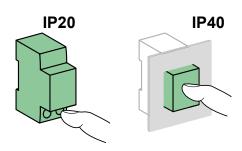
Characteristics

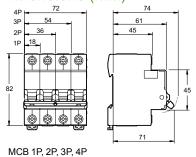
Main characteristics

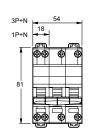
Voltage rating (Ue)	230/400 V AC
Operating frequency	50 Hz
Electrical feeding	By top or bottom
Rated impulse withstand voltage (Uimp)	4 kV

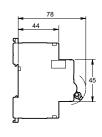
Additional characteristics

Degree of protection	Device only	IP20
(IEC 60529)	Device in modular enclosure	IP40
Hazardous substances		EU RoHS compliant
Tropicalisation (IEC 60068-2-30)		Treatment 2 (relative
	•	humidity 95 % to 55°C)









MCB 1P+N, 3P+N



RCCB residual current circuit breaker

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2P

Residual current circuit breakers AC ~			
Rating (In)	30 mA	300 mA	
25 A	EZ9R32225	EZ9R62225	
40 A	EZ9R32240	EZ9R62240	
63 A	EZ9R32263	EZ9R62263	
Voltage rating (Ue)	230 V, 50 Hz		
Width in 9-mm modules	4		

4P

- a a a	ircuit breakers AC	
Rating (In)	30 mA	300 mA
25 A	EZ9R32425	EZ9R62425
40 A	EZ9R32440	EZ9R62440
63 A	EZ9R32463	EZ9R62463
Voltage rating (Ue)	400 V, 50 Hz	•
Width in 9-mm modules	8	

Rigid	copper	cables
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Tightening torque: 3.5 N.m 1 to 35 mm²

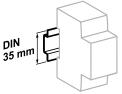
Flexible copper cables

1 to 25 mm² Tightening torque: 3.5 N.m

Certified compliant IEC/EN 61008-1

Additional feature

Electrical	2000 cycles
Mechanical	5000 cycles
With fuse	6000 A
With Easy9 MCB	6000 A
	-5°C to +60°C
	-40°C to +85°C
	By top or bottom
	Mechanical With fuse



Clip on DIN rail 35 mm.

0...360°

Indifferent position of installation.

IP20

IP40

Characteristics

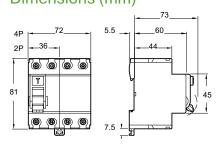
Main characteristics

Rated impulse withstand voltage (Uimp) According to IEC 61008-1 Making and breaking capacity (Im/I∆m) 25 A , 40 A 500 A 10 In

4 kV

Additional characteristics

Degree of protection	Device only	IP20
(IEC 60529)	Device in modula enclosure	ar IP40
Hazardous substances		EU RoHS compliant
Tropicalisation (IEC 60068-	2-30)	Treatment 2 (relative humidity 95 % to 55°C)





RCBO residual current device

6000 A - AC type - C curve

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IEC 61009-1

As per the above standard:

Functions

- Protection against short-circuits;
- Protection of cable against overloads;
- Protection of persons against electric shocks;
- Protection against fire hazards due to persistent earth fault current;
- Can be fitted instead of a MCB for complete protection of one circuit.



1P+N

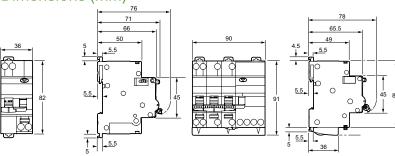
RCBO AC type 🔼 - C curve		
Rating (In)	30 mA	
6A	EZ9D35606	
10 A	EZ9D35610	
16 A	EZ9D35616	
20 A	EZ9D35620	
25 A	EZ9D35625	
32 A	EZ9D35632	
40 A	EZ9D35640	
Voltage rating (Ue)	230 V AC, 50 Hz	
Width in 9-mm modules	4	

Certified compliant IEC/EN 61009-1

Additional feature

Rated impulse withstand voltage (Uimp)	4 kV
Rated breaking capacity (Icn)		6000 A
Rated residual breaking and making ca	3000 A	
Endurance (O-C)	Electrical 4000 cycles	
	Mechanical	10000 cycles
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Operating temperature		-5°C to +60°C
Storage temperature		-40°C to +85°C
Hazardous substances		EU RoHS compliant
Tropicalisation (IEC 60068-2-30)		Treatment 2 (relative humidity 95 % to 55°C)
Electrical feeding		By top or bottom

Rigid copper cables L and N 1 to 16 mm² Tightening torque: 2 N.m Flexible copper cables L and N 1 to 16 mm² Tightening torque: 2 N.m





Surge protection devices

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IEC 61 643-11 type 2

As per the above standard:

Functions

Each surge arrester in the range has a specific application:

- Incoming protection (type 2):
- ☐ the 20 kA is recommended for a medium risk level.



1P+N

Easy9 surge arrester				
Maximum discharge current (Imax)	Nominal discharge current (In)	Voltage protection level (Up)		
20 kA	10 kA	1.3 kV	EZ9L33620	
Width in 9-mm modules	4			



3P+N

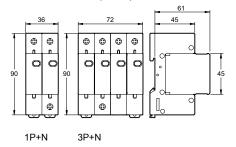
Easy9 surge arrester			
Maximum discharge current (Imax)	Nominal discharge current (In)	Voltage protection level (Up)	
20 kA	10 kA	1.3 kV	EZ9L33720
Width in 9-mm modules	8		

Certified compliant with IEC 61 643-11 type 2 Characteristics

Network maximum voltage	Ph/Ph	400 V, 50/60 Hz	
	Ph/N	230 V, 50/60 Hz	
Degree of protection (IEC 60529)	Device only	IP20	
	Device in modu enclosure	lar IP40	
Hazardous substances		EU RoHS compliant	
Storage temperature		-5°C to +70°C	
Operating temperature		-5°C to +60°C	
			-

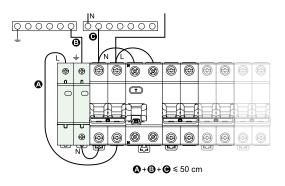
Connection	
Rigid copper cables	
5 to 35 mm ²	Tightening torque: 2.5 N.m
Flexible copper cables	
5 to 25 mm ²	Tightening torque: 2.5 N.m

Dimensions (mm)

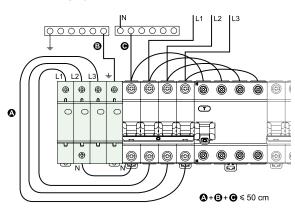


Connection

Network: single phase Earthing system: TT or TN-S



Network: three phases Earthing system: TT or TN-S



Impulse relay



Manual controls on front face: direct and priority manual control by O-I toggle Position indication on front face: by O-I toggle

EAC

IEC 60669-2-2

As per the above standard:

Functions

Easy9 TL impulse relay allow remote control of single-phase circuits.

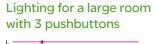
The impulse relays are used to control, by means of pushbuttons, lighting circuits consisting of:

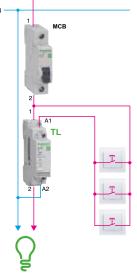
- Incandescent lamps, low-voltage halogen lamps, etc. (resistive loads).
- Fluorescent lamps, discharge lamps, etc. (inductive loads).
- LED luminaires.

1P

Impulse rela	у		
Rating (In)	Contact	Control voltage (Uc)	
16 A	1NO	230 V AC, 50 Hz	EZ9C33116
Width in 9-mm mo	odules		2

How to connect and how to use an impulse relay?

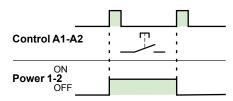




Impulse relay

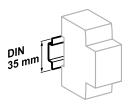


Impulse signal





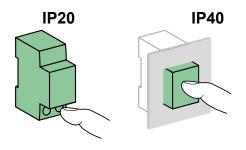
Impulse relay



Clip on DIN rail 35 mm.



Indifferent position of installation.



Characteristics

Main characteristics

Number of switching operations	Per day	100
	Total	200,000
Maximum switching frequency		5 switching operations per minute
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-20°C to +60°C
Storage temperature		-40°C to +70°C
Hazardous substances		EU RoHS Compliant

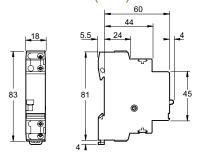
Control circuit (coil) characteristics

Coil rated voltage	230 V AC ± 10 %
Rated frequency	50 Hz
Coil inrush consumption (at 20°C)	19 VA
Impulse duration	50 to 200 ms
Manual control	By O-I toggle on front face

Power circuit (contact) characteristics

Number	1 NO
Rating	16 A
Voltage rating	250 V AC

Dimensions (mm)



3.5 mm	Control		
PZ1	Rigid copper cables	1 to 6 mm ² 2 x 1.5 mm ²	Tightening torque: 1 N.m
00	Flexible copper cables	1 to 4 mm ² 2 x 1.5 mm ²	
	Power		
	Rigid copper cables	1 to 6 mm ² 2 x 1.5 to 2.5 mm ²	Tightening torque: 1 N.m
<u> </u>	Flexible copper cables	1 to 4 mm ² 2 x 1.5 mm ²	-

Weight (g)

Туре	
Easy9 TL	105

Contactor



contacts are closed

EAC

IEC 61095

As per the above standard:

Functions

Easy9 CT contactor combined with single-phase circuit breakers or residual current devices, allow remote control of single-phase or three-phase circuits.

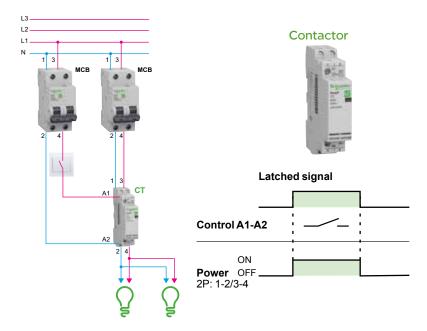
The contactor can be used to remote control applications in alternative networks:

- Lighting, heating, ventilation, roller blinds, sanitary hot water.
- Mechanical ventilation systems, etc.
- Load-shedding of non-priority circuits.

2P

Contactor					
Rating (ln)	Contact	Control voltage (Uc)		
AC7a	AC7b				
20 A	7 A	2NO	230 V AC, 50 Hz	EZ9C32220	
40 A	15 A	2NO	230 V AC, 50 Hz	EZ9C32240	
Width in 9	9-mm mod	ules	•	2 (20 A)	
				4 (40 A)	

How to connect and how to use a contactor?

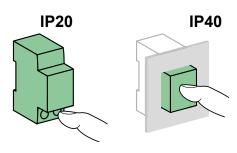




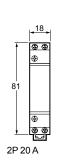
Contactor

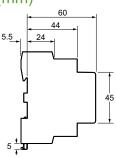
Clip on DIN rail 35 mm.

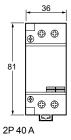


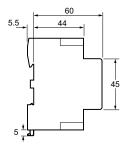


Dimensions (mm)









Characteristics

Main characteristics

Number of switching operations	Per day	100
	Total	200,000
Degree of protection	Device only	IP20
(IEC 60529)	Device in modular enclosure	IP40
Operating temperature		-5°C to +60°C
Storage temperature		-40°C to +70°C
Hazardous substances		RoHS Compliant

Control circuit (coil) characteristics

Coil rated voltage			230 V AC ± 10 %
Rated frequency			50 Hz
Coil consumption (at 20°C)	Inrush	2P - 20 A	9.2 VA
		2P - 40 A	34 VA
	Holding	2P - 20 A	2.7 VA
	_	2P - 40 A	4.6 VA

Power circuit (contacts) characteristics

Voltage rating		250 V AC

3.5 mm PZ1 Control 20A, 40A Power 20 A	Control				
	Rigid copper cables Flexible copper cables		1 to 6 mm ² 2 x 1.5 mm ²	Tightening torque:	
			1 to 4 mm ² 0.8 N.r 2 x 1.5 mm ²	_0.8 N.m	
	Pow	/er			
	20A	Rigid copper cables	1 to 6 mm ² 2 x 1.5 to 2.5 mm ²	Tightening torque:	
		Flexible copper cables	1 to 4 mm ² 2 x 1.5 mm ²	_1 N.m	
Fowel 40A	40 A	Rigid copper cables	6 to 25 mm ² 2 x 6 to 10 mm ²	Tightening torque:	
		Flexible copper cables	6 to 16 mm ² 2 x 6 to 10 mm ²	_2 N.m	

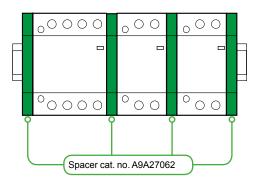
Weight (g)

Туре	2P 20 A	2P 40 A	
Easy9 CT	117	225	

Derating conditions for contactorsDerating of contactors mounted in modular enclosure if inside temperature is > 40°C.

Easy9 CT	Ambient	Ambient temperature (°C)			
Rating (A)	40	60			
40	40	38	32		
20	20	17.6	16		

If multiple iCTs side by side: install spacer and apply 0.8 coefficient on upper current values.





Bell

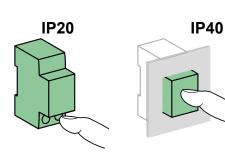




Clip on DIN rail 35 mm.



Indifferent position of installation.



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Functions

■ Audible indication in housing and tertiary sector.

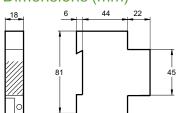
Bell	
	EZ9A34223
Voltage rating (Ue)	230 V AC, 50/60 Hz
Width in 9-mm modules	2

Characteristics

Main characteristics

Consumption		3.6 VA	
Additional characterist	ics		
Degree of protection	Device only	IP20	
(IEC 60529)	Device in modu enclosure	ılar IP40	
Hazardous substances		RoHS compliant	
Operating temperature		-10°C to +40°C	
Storage temperature		-25°C to +60°C	
Sound level (at a distance of	60 cm)	80 dBA	

Connection		
Rigid copper cables		
1 to 2.5 mm ²	Tightening torque: 1 N.m	
Flexible copper cables or with ferrule		
1 to 2.5 mm ²	Tightening torque: 1 N.m	





Impulse relay and contactor

General comments

Modular contactors and impulse relays do not use the same technologies.
Their rating is determined according to different standards and does not correspond to the rated current of the circuit.

Dimensioning rules for control devices

The accumulation of lamps on a single circuit increases the inrush current. For this reason, the number of luminaires is limited.

- These values are given for a 230 V circuit with two active conductors (single-phase phase/neutral or two-phase phase/phase). For 110 V circuits, divide the values in the table by 2.
- To obtain the equivalent values for the entire 230 V three-phase circuit, multiply the number of lamps and the maximum power output:
- \Box by $\sqrt{3}$ (1.73) for circuits with 230 V between phases without neutral,
- \Box by $\sqrt{3}$ for circuits with 230 V between phase and neutral or 400 V between phases.

Note: the lamp power ratings most commonly used are shown in bold. For power ratings not mentioned, use a proportional rule with the nearest values.

Selection table

Products		Easy9 C	Easy9 CT contactors				_ impulse relays	
Type of lamp			Maximum number of lamps for a single-phase circuit and maximum power output per circuit					
		20 A	20 A		40 A		16 A	
Standard incand	descent lan	nps, LV hale	ogen lamps, re	placement mercury	vapor lamps (wit	hout ballast)		
	40 W		46	1850 W	115	4600 W	40	1600 W
	60 W		36	2160 W	85	5100 W	25	1500 W
	75 W		30	2250 W	70	5250 W	20	1500 W
	100 W		22	2200 W	50	5000 W	16	1600 W
ELV 12 or 24 V h	alogen lam	ps						
Ferromagnetic	20 W		18	360 W	42	840 W	70	1400 W
ransformer	50 W		12	600 W	27	1350 W	28	1400 W
	75 W		10	750 W	23	1725 W	19	1425 W
	100 W		6	600 W	18	1800 W	14	1400 W
Electronic	20 W		72	1440 W	182	3640 W	60	1200 W
ransformer	50 W		31	1550 W	76	3800 W	25	1250 W
	75 W		22	1650 W	53	3975 W	18	1350 W
	100 W		18	1800 W	42	4200 W	14	1800 W
Fluorescent tub	es with sta	rter and fer	romagnetic ba	llast				
1 tube without	15 W		24	360 W	70	1050 W	83	1245 W
compensation (1)	18 W		24	432 W	70	1260 W	70	1260 W
	20 W		24	480 W	70	1400 W	62	1240 W
	36 W		22	792 W	60	2160 W	35	1260 W
	40 W		22	880 W	60	2400 W	31	1240 W
	58 W		14	812 W	35	2030 W	21	1218 W
	65 W		14	910 W	35	2275 W	20	1300 W
	80 W		12	960 W	30	2400 W	16	1280 W
	115 W		8	920 W	20	2300 W	11	1265 W
1 tube	15 W	5 µF	16	240 W	40	600 W	60	900 W
with parallel	18 W	5 µF	16	288 W	40	720 W	50	900 W
compensation (2)	20 W	5 µF	16	320 W	40	800 W	45	900 W
	36 W	5 μF	16	576 W	40	1440 W	25	900 W
	40 W	5 μF	16	640 W	40	1600 W	22	880 W
	58 W	7 μF	12	696 W	30	1740 W	16	928 W
	65 W	7 μF	12	780 W	30	1950 W	13	845 W
	80 W	7 μF	12	960 W	30	2400 W	11	880 W
	115 W	16 µF	6	690 W	14	1610 W	7	805 W
2 or 4 tubes	2 x 18 W		37	1332 W	80	2880 W	56	2016 W
with series compensation	4 x 18 W		19	1368 W	44	3168 W	28	2016 W
ompensation	2 x 36 W		19	1368 W	44	3168 W	28	2016 W
	2 x 58 W		13	1508 W	27	3132 W	17	1972 W
	2 x 65 W		13	1690 W	27	3510 W	15	1950 W
	2 x 80 W		10	1600 W	22	3520 W	12	1920 W
	2 x 115 W		8	1840 W	16	3680 W	8	1840 W



Impulse relay and contactor

Selection table (cont.)

Products		Easy9 CT	contactors			Easy9 TL	impulse relays	
Type of lamp			Maximum number of lamps for a single-phase circuit and maximum power output per ci					output per circuit
			20 A		40 A		16 A	
Fluorescent tube	os with alac	tronic balls			4074		IOA	
or 2 tubes	18 W	tionic band	89	1602 W	222	3996 W	180	1440 W
or 2 tubes	36 W		46	1656 W	117	4212 W	40	1440 W
	58 W		30	1740 W	74	4292 W	26	1508 W
	2 x 18 W		44	1584 W	111	3996 W	40	1440 W
	2 x 36 W		24	1728 W	60	4320 W	20	1440 W
	2 x 58 W		15	1740 W	38	4408 W	13	1508 W
Compact fluores	scent lamps							
xternal	5 W		264	1320 W	670	3350 W	240	1200 W
lectronic	-		178	1246 W	478	3346 W	171	1197 W
allast	9 W		155	1395 W	383	3447 W	138	1242 W
	11 W		130	1430 W	327	3597 W	118	1298 W
	18 W		84	1512 W	216	3888 W	77	1386 W
	26 W		61	1586 W	153	3978 W	55	1430 W
ntegral	5 W		184	920 W	470	2350 W	170	850 W
lectronic ballast	7 W		131	917 W	335	2345 W	121	847 W
replacing	9 W		106	954 W	266	2394 W	100	900 W
ncandescent amps)	descent 44 W		87	957 W	222	2442 W	86	946 W
iiips)	18 W		55	990 W	138	2484 W	55	990 W
	26 W		40	1040 W	100	2600 W	40	1040 W
Low-pressure so	odium vapo	r lamps with	n ferromagnetic	ballast and external	ianitor			
Vithout	35 W		7	245 W	14	490 W	Not tested,	
ompensation (1)	55 W		7	385 W	14	770 W	infrequently	used
•	90 W 135 W		5	450 W	9	810 W	 	
			3	405 W	6	810 W		
	180 W		3	540 W	6	1080 W		
Vith parallel	35 W	20 µF	4	140 W	10	350 W	38	1330 W
ompensation (2)	55 W	20 μF	4	220 W	10	550 W	24	1320 W
	90 W	26 µF	3	270 W	8	720 W	15	1350 W
	135 W	40 µF	2	270 W	5	675 W	10	1350 W
	180 W	45 µF	2	360 W	4	720 W	7	1260 W
High-pressure s	odium vapo	or lamps		,		,		
Metal-iodide lam	ıps							
erromagnetic	35 W		19	665 W	42	1470 W	Not tested,	
allast with external ignitor,	70 W		10	700 W	20	1400 W	infrequently	used
Alcınarıyınılı,	150 W		6	900 W	13	1950 W		
ithout			3	750 W	8	2000 W		
vithout compensation (1)	250 W							
vithout ompensation (1)	400 W		2	800 W	5	2000 W		
ompensation (1)	400 W 1000 W	I	2	800 W 1000 W	2	2000 W 2000 W		1
ompensation (1) erromagnetic	400 W 1000 W 35 W	6 μF	2 1 14	800 W 1000 W 490 W	2 31	2000 W 2000 W 1085 W	34	1190 W
ompensation (1) erromagnetic allast and	400 W 1000 W 35 W 70 W	12 µF	2 1 14 7	800 W 1000 W 490 W 490 W	2 31 16	2000 W 2000 W 1085 W 1120 W	17	1190 W
erromagnetic allast and xternal ignitor,	400 W 1000 W 35 W 70 W 150 W	12 μF 20 μF	2 1 14 7 5	800 W 1000 W 490 W 490 W 750 W	2 31 16 10	2000 W 2000 W 1085 W 1120 W 1500 W	17 8	1190 W 1200 W
erromagnetic allast and xternal ignitor,	400 W 1000 W 35 W 70 W 150 W 250 W	12 μF 20 μF 32 μF	2 1 14 7 5 3	800 W 1000 W 490 W 490 W 750 W 750 W	2 31 16 10 7	2000 W 2000 W 1085 W 1120 W 1500 W	17 8 5	1190 W 1200 W 1250 W
erromagnetic allast and xternal ignitor, vith parallel	400 W 1000 W 35 W 70 W 150 W 250 W 400 W	12 μF 20 μF 32 μF 45 μF	2 1 14 7 5 3 2	800 W 1000 W 490 W 490 W 750 W 750 W 800 W	2 31 16 10 7 5	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W	17 8 5 3	1190 W 1200 W 1250 W 1200 W
erromagnetic allast and xternal ignitor,	400 W 1000 W 35 W 70 W 150 W 250 W 400 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W	2 31 16 10 7 5 3	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W	17 8 5 3	1190 W 1200 W 1250 W 1200 W 1000 W
erromagnetic allast and xternal ignitor, rith parallel compensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W	12 μF 20 μF 32 μF 45 μF	2 1 14 7 5 3 2 2 1	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W	2 31 16 10 7 5 3 2	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W	17 8 5 3 1	1190 W 1200 W 1250 W 1250 W 1200 W 1000 W 805 W
erromagnetic allast and xternal ignitor, ith parallel compensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 1 14 7 5 3 2 2 2 1 1 30	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W	2 31 16 10 7 5 3 2 68	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W	17 8 5 3 1 0 38	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W
erromagnetic allast and xternal ignitor, iith parallel compensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W	2 31 16 10 7 5 3 2 68 51	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W	17 8 5 3 1 0 38 29	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W
erromagnetic allast and xternal ignitor, ith parallel ompensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 1 14 7 5 3 2 2 2 1 1 30	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W	2 31 16 10 7 5 3 2 68	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W	17 8 5 3 1 0 38	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W
erromagnetic allast and xternal ignitor, ith parallel ompensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W 70 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W 1610 W	2 31 16 10 7 5 3 2 68 51 26	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W 3900 W	17 8 5 3 1 0 38 29 14	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W 2100 W
erromagnetic allast and xternal ignitor, ith parallel compensation (2) lectronic allast	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W	2 31 16 10 7 5 3 2 68 51	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W	17 8 5 3 1 0 38 29	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W
rerromagnetic allast and xternal ignitor, vith parallel ompensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W 70 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W 1610 W	2 31 16 10 7 5 3 2 68 51 26	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W 3900 W	17 8 5 3 1 0 38 29 14	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W 2100 W
erromagnetic allast and xternal ignitor, ith parallel ompensation (2)	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W 70 W 150 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23 11	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W 1610 W 690 W	2 31 16 10 7 5 3 2 68 51 26	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W 3900 W	17 8 5 3 1 0 38 29 14	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W 2100 W
ompensation (1) Ferromagnetic allast and external ignitor, with parallel ompensation (2) Electronic allast	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 2000 W 35 W 70 W 150 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23 11	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 2000 W 1050 W 1610 W 690 W	2 31 16 10 7 5 3 2 68 51 26	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W 3900 W	17 8 5 3 1 0 38 29 14	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W 2100 W
vithout compensation (1) Ferromagnetic compensation (2) Electronic compensation (2) Electronic compensation (2) Electronic compensation (2) LED lamps Vith driver	400 W 1000 W 35 W 70 W 150 W 250 W 400 W 1000 W 2000 W 35 W 70 W 150 W	12 μF 20 μF 32 μF 45 μF 60 μF	2 1 14 7 5 3 2 2 2 1 30 23 11	800 W 1000 W 490 W 490 W 750 W 750 W 800 W 2000 W 1050 W 1610 W 1650 W	2 31 16 10 7 5 3 2 68 51 26	2000 W 2000 W 1085 W 1120 W 1500 W 1750 W 2000 W 3000 W 4000 W 2380 W 3570 W 3900 W	17 8 5 3 1 0 38 29 14	1190 W 1200 W 1250 W 1200 W 1000 W 805 W 1330 W 2030 W 2100 W 690 W 1320 W

⁽¹⁾ Circuits with non-compensated ferromagnetic ballasts consume twice as much current for a given power output. This explains the small number of lamps in this

⁽²⁾ The total capacitance of the power factor capacitors in parallel on a circuit limits the number of lamps that can be controlled by a contactor. The total downstream capacitance of a modular contactor of rating 16, 25, 40 or 63 A should not exceed 75, 100, 200 or 300 µF respectively.

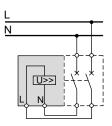
Allow for these limits to calculate the maximum acceptable number of lamps if the capacitance values are different from those in the table.



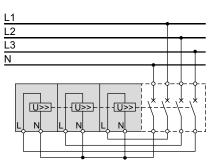
MSU overvoltage release unit

ϵ

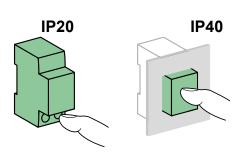




Single-phase power supply monitoring



Three-phase power supply monitoring



Not compatible with:







RCCB: see CE902006E for catalog numbers

Functions

- Tripping of the associated protective device when the voltage across its terminals exceeds its nominal value.
- This auxiliary can protect sensitive loads from mains voltage fluctuations, in particular those due to breakage of the neutral conductor.
- Resetting of the protective device is possible only when the voltage across the terminals of the auxiliary has returned to its nominal value. Resetting will be done manually.

Auxiliary trip units

MSU	
Catalog number	EZ9A32223
Voltage rating (Ue)	230 V AC, 50/60 Hz
Width in 9-mm modules	2

Characteristics

Main characteristics

Power consumption (at Un))	0.002 A	
Power consumption	Holding	0.046 VA	
	Inrush	128 VÂ	
Insulation voltage (Ui)		400 V	
Degree of pollution		3	
Rated impulse withstand voltage (Uimp)		4 kV (6 kV relative to the associated protective device)	

Additional characteristics

Endurance	20,000 operations
Hazardous substances	EU RoHS compliant
Operating temperature	-35°C to +70°C
Storage temperature	-40°C to +85°C

Standardised operat	ina and ı	nan raananaa t	to voltage	/I la) timas
Stational disea oberni	ilio alto i	HOHERESDOUSE L	io voltade	tuai iiiies

	255 V AC	275 V AC	300 V AC	350 V AC	400 V AC
Maximum operating time	No tripping	15 s	5 s	0.75 s	0.20 s
Minimum non-response time		3 s	1 s	0.25 s	0.07 s

(Ua)

Voltages measured between the phase and the neutral conductor, at which the MSU device must control the associated protective device.

Connection

Rigid copper cables

≤ 2.5 mm² Tightening torque: 1 N.m

Flexible copper cables or with ferrule

≤ 1.5 mm² Tightening torque: 1 N.m

Compatible with:



MCB 1P, 2P, 3P: see CE901006E for catalog numbers



MCB 3P+N: see CE901007E for catalog numbers



RCBO: see CE902005E for catalog numbers

Enclosures 8 to 12 modules

IEC 60670-1-24

Description

Easy9 enclosures are designed for installing modular "DIN" devices in residential environments.

They are used indoors and are available in 8 and 12 modules of 18 mm.

- Ergonomic design and easy installation.
- Fitted with a smoked or a plain reversible door opening to 180°.
- Precut cable passthroughs on 4 sides.
- 1 to 3 DIN rails, chassis allows the cabling outside the back box.
- Two earth and neutral terminal blocks. 1 to 3 DIN rails, chassis allows the cabling outside the back box.
- Rated current In = 63 A



The flush mounting enclosure consists of:

- a symmetrical back box:
- □ robust,
- □ depth adapted to the walls of reduced thickness,
- □ with pre-holes for entry tubes on the 4 sides.

Flush mounting enclosures							
Number of rows	Number of 18 mm modules per row	Panel + Smoked door	Panel + Plain door				
1	8	EZ9E108S2F	EZ9E108P2F				
1	12	EZ9E112S2F	EZ9E112P2F				
1	18	EZ9E118S2F	EZ9E118P2F				
2	12	EZ9E212S2F	EZ9E212P2F				
3	12	EZ9E312S2F	EZ9E312P2F				









Surface mounting enclosure

The surface mounting enclosure consists of:

- a back with:
- □ a centered slot to facilitate installation,
- ☐ fixing holes for vertical adjustment,
- the necessitate for entry cables:
- □ punch-outs,
- □ a large area for drilling (crown saw, punches).

Surface mounting enclosures							
Number of rows	Number of 18 mm modules per row	Panel + Smoked door	Panel + Plain door				
1	8	EZ9E108S2S	EZ9E108P2S				
1	12	EZ9E112S2S	EZ9E112P2S				
1	18	EZ9E118S2S	EZ9E118P2S				
2	12	EZ9E212S2S	EZ9E212P2S				
3	12	EZ9E312S2S	EZ9E312P2S				

Comb busbars

C€ EH[

IEC 60439-1

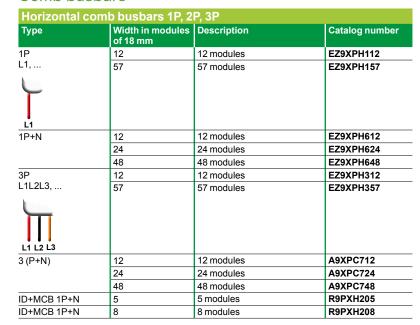
As per the above standards:

Functions

The comb busbars:

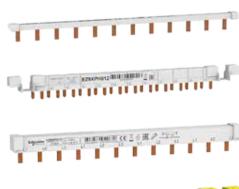
- Ensure easy and reliable connection of devices together without cables.
- Can be sawn and cut.
- Supplied with two IP20 lateral end-pieces, the end-pieces are mandatory.
- Unused teeth can be insulated with tooth covers available as accessories.
- Rating current In = 63 A
- Rating voltage Un = 230 V AC P/N and 400 V AC P/P
- Ui = 440 V AC

Comb busbars

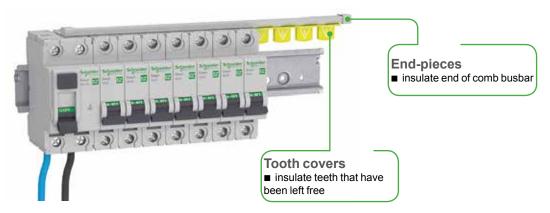












Accessories							
Number of poles	1P	3P	1P+N	3P+N			
	À	99) 33
	End-pieces		End-pieces		Tooth covers	Tooth covers, 1P+N & 3P+N, set of 12	35 mm ² connectors
Set of	10	10	40	40	20	12	4
Catalog numbers	EZ9XPE110	EZ9XPE310	EZ9XPE640	A9X21095	A9XPT920	A9X21096	EZ9XPC04



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