

# Phase control

## → EWS2

- Space savings, accurate measurement and optimized functions all improve the efficiency of your electrical installation
- Control : You simply install your EWS2 phase control relay and without any adjustment you can monitor the loss or inversion of one of the phases
- Safety : The EWS2 range enables you to choose the level of safety for your installation by using versions with 1, 2 or 3 output changeovers
- Self-powered : Simple to install, EWS2 control relays use the controlled mains supply for their own power supply voltage



### Part numbers

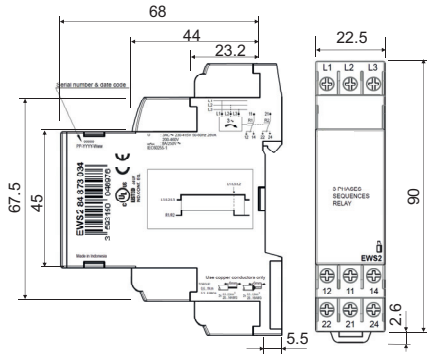
Type	Output relay	Code
EWS2	2 changeovers	84 873 034

### General characteristics

Input	
Operating range	3 x 230 → 3 x 400 V ~
Operating range	3 x 200 → 3 x 484 V ~
Frequency	50 / 60 Hz
Maximum consumption	28 VA
Output	
Output relay	2 changeovers
Type of contacts	No cadmium
Nominal rating	8 A
Maximum breaking voltage	250 V ~
Nominal breaking capacity	2 000 VA
Min. breaking current	10 mA / 5 V ---
Electrical life (number of operations)	10 <sup>5</sup> at 8A/250 V ~
Maximum rate (at full load)	360 operations / hour
Mechanical life (operations)	10 x 10 <sup>6</sup>
Pick-up delay T1	≤ 650 ms
Turn-off delay T2	< 300 ms
Connection capacity - without ferrule	1 x 0.5 → 4 mm <sup>2</sup> (AWG 20 → AWG 11) 2 x 0.5 → 2.5 mm <sup>2</sup> (AWG 20 → AWG 14)
Connection capacity - with ferrule	1 x 0.5 → 2.5 mm <sup>2</sup> (AWG 20 → AWG 14) 2 x 0.5 → 1.5 mm <sup>2</sup> (AWG 20 → AWG 16)
Max. tightening torque (IEC/EN 60947-1)	0.6 → 1 Nm / 5.3 → 8.8 lbf.in
Environment	
Operating temperature range (°C)	-20 → +50
Storage temperature (°C)	-40 → +70
Housing material	Self-extinguishing
Protection (IEC/EN 60529) - Casing	IP40
Protection (IEC/EN 60529) - Term. block	IP20
Dielectric strength (IEC/EN 60255-5)	2.5 KV / 1 mn / 1 mA / 50 Hz
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III, degree of pollution 3 : 4 KV / 3
Weight (g)	86

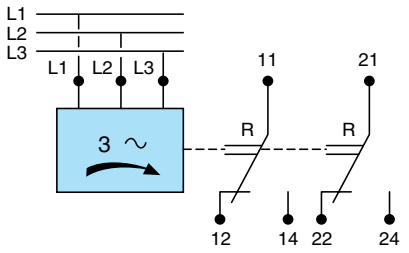
## Dimensions (mm)

### EWS / EWS2



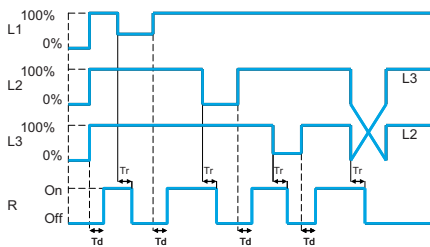
## Connections

### EWS2



## Principles

### Timing diagrams EWS2



Td : Power on delay  
 Tr : Responsible time after a fault has occurred  
 R : Output relay

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