

## **Excellent Integrated System Limited**

Stocking Distributor

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[Crouzet USA](#)  
[84892299](#)

For any questions, you can email us directly:

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## EWS / EWS2 phase sequence and loss of phase EWS Part number 84892299



- Space savings, accurate measurement and optimized functions all improve the efficiency of your electrical installation.
- Control : You simply install your EWS phase control relay and without any adjustment you can monitor the loss or inversion of one of the phases.
- Safety : The EWS 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, EWS control relays use the controlled mains supply for their own power supply voltage.

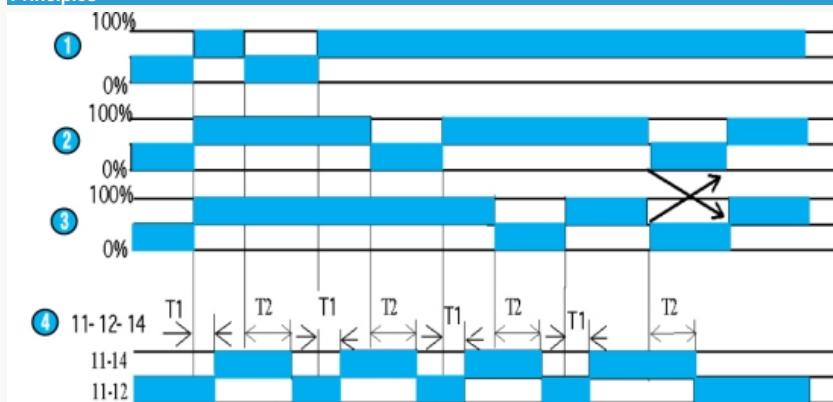
### Part numbers

Type	Output relay
84 892 299 EWS	1 changeover
84 873 004 EWS2	2 changeovers

### Specifications

Operating range	3 AC 230...440 V
Operating range	50 / 60 Hz +/- 1 Hz
Frequency	25 VA
Maximum consumption	
Output relay	No cadmium
Type of contacts	8 A
Nominal rating	250 V AC
Maximum breaking voltage	440 V AC
Max. voltage	2000 VA
Nominal breaking capacity	10 mA / 5 V
Min. breaking current	AC 12 : $10^5$ at 8A/250 VAC
Electrical life (number of operations)	360 operations / hour
Maximum rate (at full load)	
Mechanical life (operations)	
Pick-up delay T1	2 x $10^7$
Turn-off delay T2	200 ms
Connection capacity - without ferrule	300 ms in the event of phase failure
Connection capacity - with ferrule	2 x 2,5 mm <sup>2</sup>
Max. tightening torque	1 x 4 mm <sup>2</sup>
Operating temperature range (°C)	2 x 1,5 mm <sup>2</sup>
Storage temperature (°C)	1 Nm (screw M3 / IEC 947-1)
Housing material	-30 → +70
Protection (IEC 60529) - Casing	Self-extinguishing
Protection (IEC 60529) - Term. block	IP40
Dielectric strength (IEC 60255-5)	IP20
Insulation coordination (IEC/EN 60664-1)	2,5 KV / 1 min / 1 mA / 50 Hz
Weight (g)	Overvoltage category III, degree of pollution 3
	110

### Principles



**Operating principle**

EWS/EWS2 relays monitor the correct sequencing of phases L1, L2 and L3 as well as the loss of one of these phases.

When the phase sequence is correct, the output relay is energised, indicated by a yellow LED.

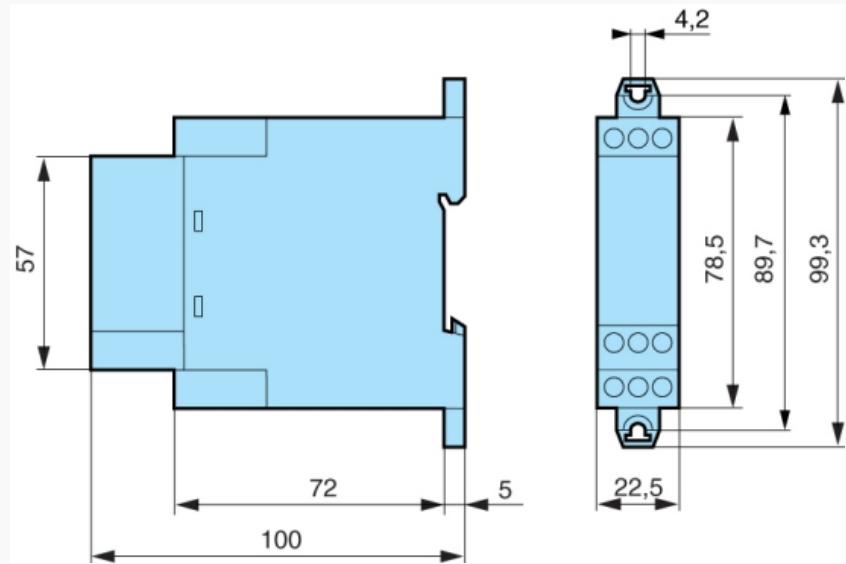
The relay de-energises (LED off) if one of the following faults occurs : Incorrect sequence of phases at terminals L1, L2 and L3

Total loss of one phase or all three phases (loss of phase detection threshold < 50 VAC)

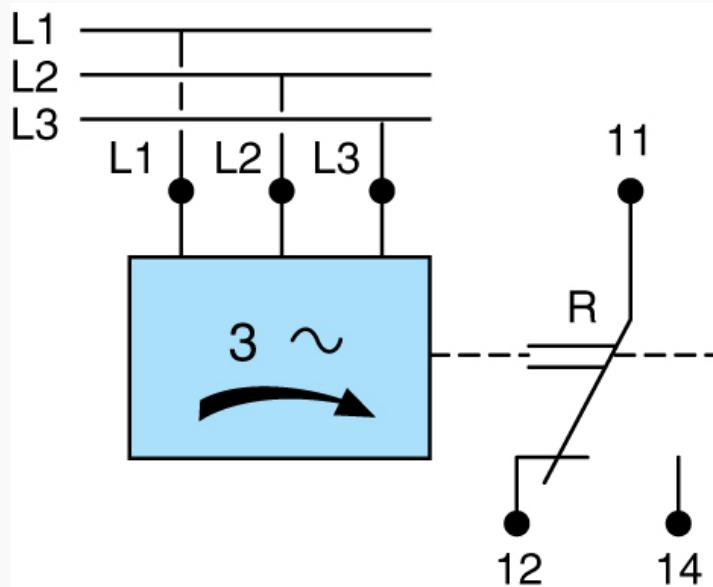
N°	Legend
1	Phase L1
2	Phase L2
3	Phase L3
4	Relay

**Dimensions (mm)**

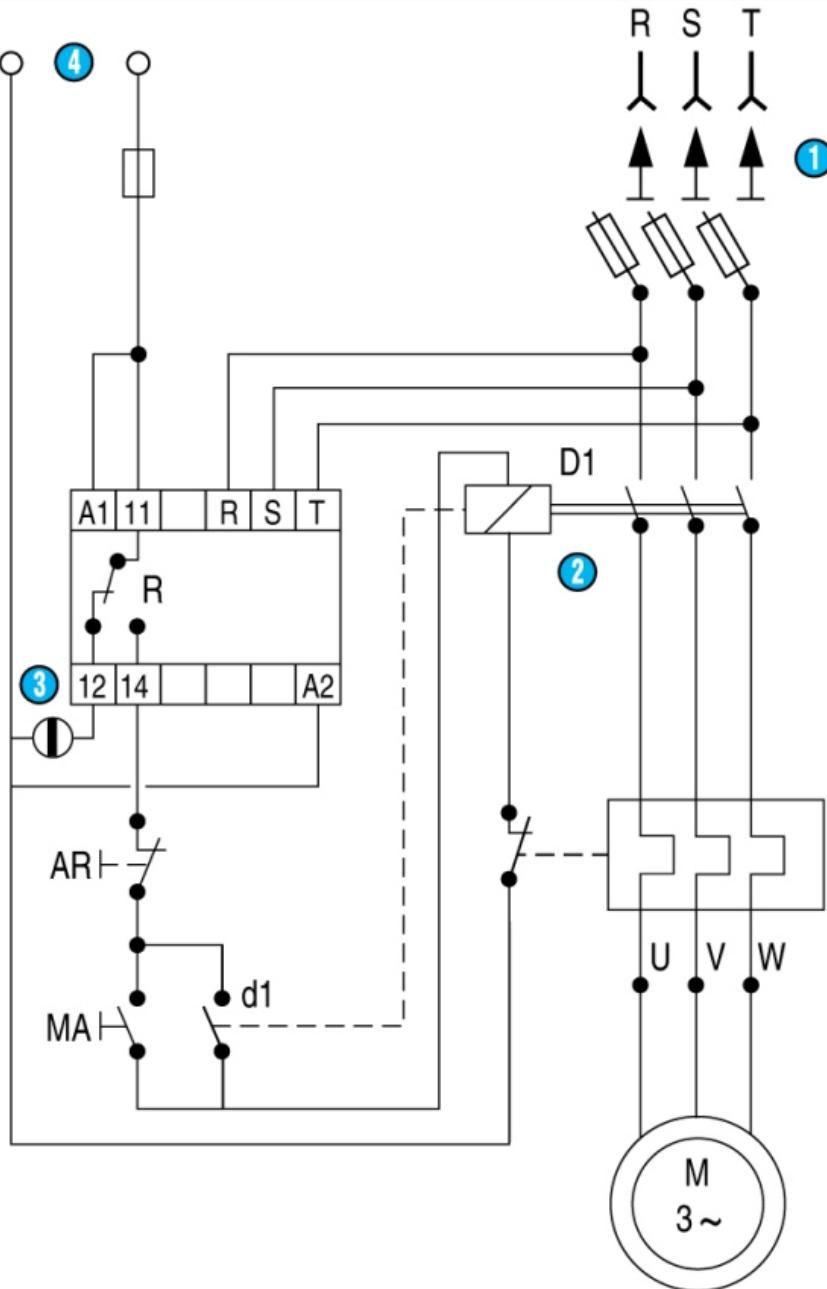
EWS / EWS2


**Connections**

EWS


**Connections**

EWS

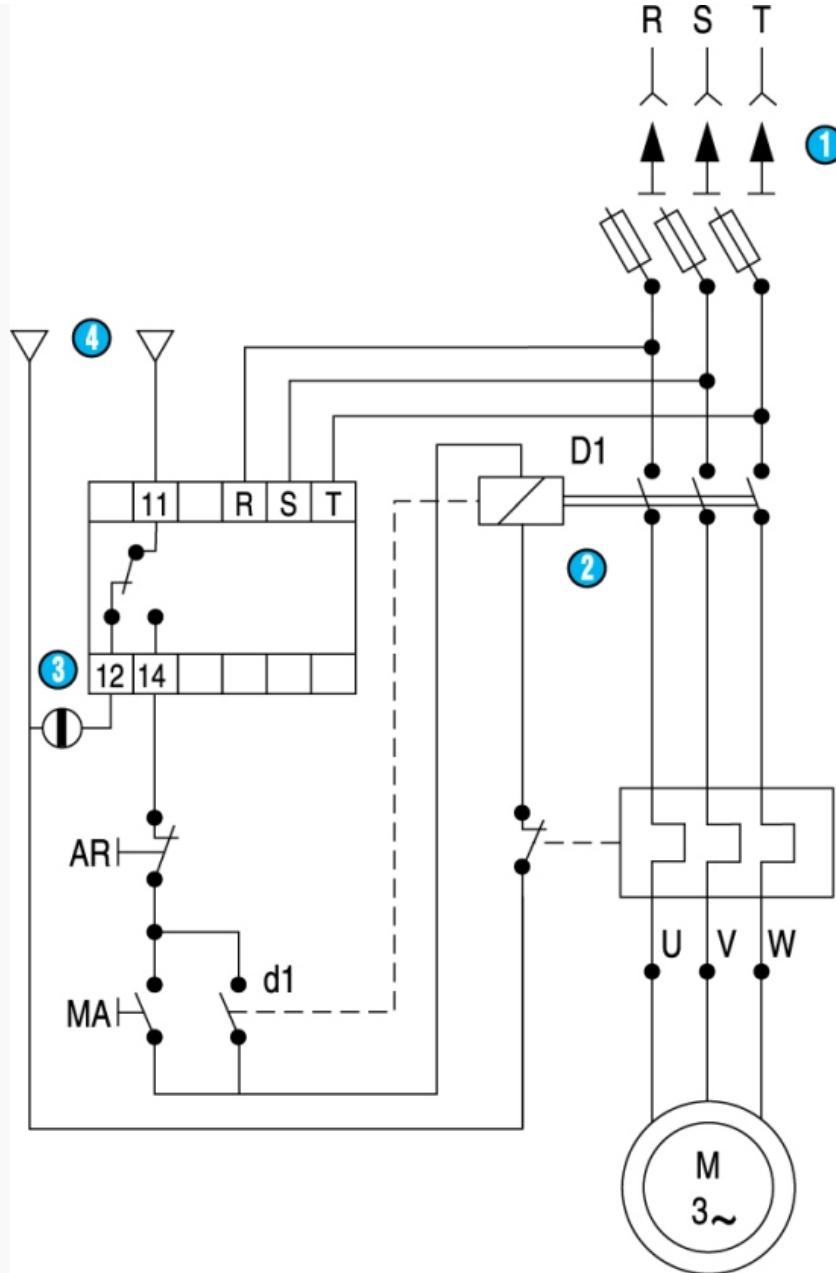


Nº	Legend
1	Isolating switch
2	Contactor
3	Alarm
4	Auxiliary power supply for contactor coil and signalling

#### Connections

EWS : Monitoring of three-phase motor.

Manual re-engage after disappearance of the fault.



Surveillance moteur triphasé Réenclenchement manuel après disparition du défaut. defecto

Nº	Legend
1	Isolating switch
2	Contactor
3	Alarm
4	Auxiliary power supply for contactor coil and signalling