

Data sheet

Single phase electronic contactor, type ECI 10-1

Introduction



ECI 10-1 electronic contactors are designed for application demanding fast and precise switching capability.

The contactors are burst fired for reduced EMC emission, have LED status indicators.

The units are DIN rail mountable, complete with heat sink and require no additional components.

Typical applications

ECI 10-1 electronic contactors are designed for fast and demanding switching of heater loads.

Design standard IEC/EN 60947-4-3

Approvals CE

Features

- Compact modular design complete with heat sink
- Zero side clearance
- · DIN rail mountable
- Built-in varistor protection

- Operational current up to 10 A (AC-1)
- Line voltage up to 230 V a.c.
- Burst firing (zero cross)
- LED status indicator

Ambient temperature

40°C

50°C

60°C

IP 20 protection

Technical data

Operating at high temperatures

If the contactor is placed inside small cabinets, care must be taken to avoid exceeding the max. ambient temperature, otherwise the current must be derated according to table

Output specifications

Operational current				
AC-1, AC-51	10A			
Operational voltage	24 - 230 V a.c.			
Leakage current max.	1 mA			
Minimum operational current	10 mA			
Semiconductor protection fusing				
type 1 co-ordination	16 A gL/gG			
type 2 co-operation	180 A ² S			

Thermal specifications and environment

Thermal opeomoutions and entri onment			
Power dissipation, continuously duty	1.3 W/A		
Power dissipation, intermittent duty	1.3 W/A x duty cycle		
Ambient temperature range	–5 to 40°C		
Cooling method	Natural convection		
Mounting	Vertical (see also general mounting		
	instructions)		
Max. ambient temperature with limited	60°C, see derating for high		
current	temperatures in chart below)		
Storage temperature range	–20 to 80°C		
Protection degree / pollution degree	IP 20 / 3		

ECI 10

10 A

10A

8A



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Technical data (continued)

Insulation specifications

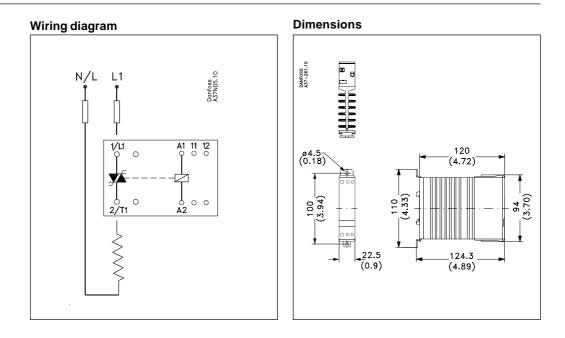
Rated insulation voltage, Ui	660 V
Rated impulse withstand voltage, Uimp	4 kV
Installation category	

Control specifications

Control voltage (± 10%)	5 to 40°C
Pick-up voltage	4.25 V d.c.
Drop out voltage	1.5 V d.c.
Control current	10 mA at 24 V d.c.
Response time max.	½ cycle

Sele

ection guide	Operational current max.	Control voltage	Dimensions	Туре	Code no.
	10 A	5 to 24 V d.c.	22.5 mm module	ECI 10-1	037N0072



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