





IDA-EV-40-30, Residual current relay Type A

Code: P17321.

> Poles: 4

> In (A): 40 A

> Sensitivity: 30 mA + 6 mAdc

> Mounting: DIN rail

### Description

**IDA-EV** is a 6mA  $_{DC}$  type-A RCCB with monitoring for use in electric vehicle chargers. Compact RCCB that provides residual current protection, with a sensitivity of 30 mA and 6 mA  $_{DC}$  monitoring for use in electric vehicle charging stations. Available in 40 and 63 A nominal current gauges, for three-phase and single-phase connections. It guarantees adequate protection at electric vehicle charging points, in accordance with the **IEC 62955** standard.

### **Application**

Device specifically designed to provide residual current protection of electric vehicle charging stations.







Type A RCCB with 6 mAdc monitoring

Code: P17321.

## **Specifications**

Mechanical life 10000 operations Electrical lifetime 2000 cycles  Mechanical characteristics  Size (mm) width x height x depth 72 x 87.5 x 68 (mm) Envelope Self-extinguishing V0 plastic Fastening DIN rail (EN 60715, EN 50022) Weight (kg) 0,38  Environmental characteristics  Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 +85 °c Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards  Electrical safety  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)	AC power supply	
Electrical characteristics  Mechanical life 10000 operations Electrical lifetime 2000 cycles  Mechanical characteristics  Size (mm) width x height x depth 72 x 87.5 x 68 (mm) Envelope Self-extinguishing V0 plastic Fastening Din rail (EN 60715, EN 50022) Weight (kg) 0.38  Environmental characteristics  Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 485 °C Working temperature -40 485 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards IEC 61008, IEC 62955  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (10n), A 0,03	Frequency	50/60 Hz
Mechanical life 10000 operations  Electrical lifetime 2000 cycles  Mechanical characteristics  Size (mm) width x height x depth 72 x 87.5 x 68 (mm)  Envelope Self-extinguishing VD plastic  Fastening DIN rail (EN 60715, EN 50022)  Weight (kg) 0,38  Environmental characteristics  Protection class IP 20  Relative humidity (without condensation) 5 95%  Storage temperature -40 +85 °C  Working temperature -25 +65 °C  Current measurement circuit  Nominal current (in) 40 A  Standards  Electrical safety, Maximum height (m) 2000  Electrical safety, Installation category CAT III, IEC 61010  Standards  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc  Sensitivity (\(\(\) (\) (\) (\) (\) (\) (\) (\) (\)	Nominal voltage	400 V ~ / 415 V ~
Electrical lifetime   2000 cycles	Electrical characteristics	
Mechanical characteristics  Size (mm) width x height x depth 72 x 87.5 x 68 (mm) Envelope Self-extinguishing VD plastic Fastening DIN rail (EN 60715, EN 50022) Weight (kg) 0,38  Environmental characteristics  Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 +85 °c Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards IEC 61008, IEC 62955  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (Idn), A  72 x 87.5 x 58 (mm) 73 x 87.5 x 58 (mm) 74 x 87.5 x 58 (mm) 75 x 87.5 x 58 (mm) 76 x 87.5 x 58 (mm) 77 x 87.5 x 58 (mm) 78 x 87.5	Mechanical life	10000 operations
Size (mm) width x height x depth 72 x 87.5 x 68 (mm)  Envelope Self-extinguishing V0 plastic  Fastening DIN rall (EN 60715, EN 50022)  Weight (kg) 0,38  Environmental characteristics  Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 +85 °C  Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards IEC 61008, IEC 62955  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (\(\(\)\text{A}\text{O}\text{A}\text{O}\)	Electrical lifetime	2000 cycles
Envelope Self-extinguishing V0 plastic Fastening DIN rail (EN 60715, EN 50022) Weight (kg) 0,38  Environmental characteristics  Protection class Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 +85 °c Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards IEC 61008, IEC 62955  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (Lin), A 0,03	Mechanical characteristics	
Fastening DIN rail (EN 60715, EN 50022) Weight (kg) 0,38  Environmental characteristics  Protection class IP 20 Relative humidity (without condensation) 5 95% Storage temperature -40 +85 °C Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III, IEC 61010 Standards  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (IΔn), A 0,03	Size (mm) width x height x depth	72 x 87.5 x 68 (mm)
Weight (kg)     0,38       Environmental characteristics       Protection class     IP 20       Relative humidity (without condensation)     5 95%       Storage temperature     -40 +85 °c       Working temperature     -25 +65 °C       Current measurement circuit       Nominal current (In)     40 A       Standards       Electrical safety, Maximum height (m)     2000       Electrical safety, installation category     CAT III, IEC 61010       Standards     IEC 61008, IEC 62955       Electrical safety       Insulation     Double-insulated electric shock protection class II (IEC 61010-1)       Differential protection       Type     Type A+6mAdc       Sensitivity (IΔn), A     0,03	Envelope	Self-extinguishing V0 plastic
Protection class IP 20  Relative humidity (without condensation) 5 95%  Storage temperature -40 +85 °C  Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000  Electrical safety, Installation category CAT III, IEC 61010  Standards  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (IΔn), A 0,03	Fastening	DIN rail (EN 60715, EN 50022)
Protection class  Relative humidity (without condensation)  5 95%  Storage temperature  -40 +85 °C  Working temperature  -25 +65 °C   Current measurement circuit  Nominal current (In)  40 A  Standards  Electrical safety, Maximum height (m) Electrical safety, Installation category  CAT III, IEC 61010  Standards  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (I△n), A  0,03	Weight (kg)	0,38
Relative humidity (without condensation)  Storage temperature  -40 +85 °C  Working temperature  -25 +65 °C  Current measurement circuit  Nominal current (In)  40 A  Standards  Electrical safety, Maximum height (m)  Electrical safety, Installation category  CAT III, IEC 61010  Standards  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (IΔn), A  0,03	Environmental characteristics	
Storage temperature -40 +85 °C  Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000  Electrical safety, Installation category CAT III, IEC 61010  Standards IEC 61008, IEC 62955  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (IΔn), A 0,03	Protection class	IP 20
Working temperature -25 +65 °C  Current measurement circuit  Nominal current (In) 40 A  Standards  Electrical safety, Maximum height (m) 2000  Electrical safety, Installation category CAT III, IEC 61010  Standards  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (I\Dan), A 0,03	Relative humidity (without condensation)	5 95%
Current measurement circuit  Nominal current (In)  Standards  Electrical safety, Maximum height (m)  Electrical safety, Installation category  Standards  Electrical safety, Installation category  CAT III, IEC 61010  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (I\Dn), A  0,03	Storage temperature	-40 +85 °c
Nominal current (In)  Standards  Electrical safety, Maximum height (m) Electrical safety, Installation category CAT III, IEC 61010 Standards  Electrical safety Insulation Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type Type A+6mAdc Sensitivity (IΔn), A  0,03	Working temperature	-25 +65 °C
Electrical safety, Maximum height (m)  Electrical safety, Installation category  Standards  Electrical safety, Installation category  CAT III, IEC 61010  Standards  IEC 61008, IEC 62955  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (IΔn), A  0,03	Current measurement circuit	
Electrical safety, Maximum height (m)  Electrical safety, Installation category  Standards  Electrical safety  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (IΔn), A  0,03	Nominal current (In)	40 A
Electrical safety, Installation category  Standards  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (IΔn), A  0,03	Standards	
Standards IEC 61008, IEC 62955  Electrical safety  Insulation Double-insulated electric shock protection class II (IEC 61010−1)  Differential protection  Type Type A+6mAdc  Sensitivity (I∆n), A 0,03	Electrical safety, Maximum height (m)	2000
Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Differential protection  Type  Type A+6mAdc  Sensitivity (I∆n), A  0,03	Electrical safety, Installation category	CAT III, IEC 61010
Insulation     Double-insulated electric shock protection class II (IEC 61010-1)       Differential protection       Type     Type A+6mAdc       Sensitivity (IΔn), A     0,03	Standards	IEC 61008, IEC 62955
Differential protection       Type     Type A+6mAdc       Sensitivity (I∆n), A     0,03	Electrical safety	
Type Type A+6mAdc Sensitivity (I∆n), A 0,03	Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
Sensitivity (I∆n), A 0,03	Differential protection	
	Туре	Type A+6mAdc
Delay time ( $t\Delta$ ) Instantaneous or General (IEC 61008-1)	Sensitivity (I∆n), A	0,03
	Delay time ( $t\Delta$ )	Instantaneous or General (IEC 61008-1)

#### IDA-EV

RCCB with 6 mADC supervision type A



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Type A RCCB with 6 mAdc monitoring

Code: P17321.

CODE	TYPE	In (A)	Mounting	Poles	Sensitivity	
P17321.	IDA-EV-40-30	40 A	DIN rail	4	30 mA + 6 mAdc	
P17322.	IDA-EV-63-30	63 A	DIN rail	4	30 mA + 6 mAdc	









Type A RCCB with 6 mAdc monitoring

Code: P17321.

# **Dimensions**

# Connections





