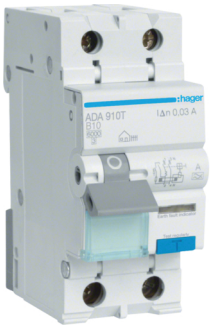

ADA906T

RCBO 1P+N 6 kA C-6A 30mA A Class

Technical properties

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	C

Configuration

Number of modules	2

Connectivity

Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal

Main electrical features

Rated operational voltage Ue	230 - 240 V~
Type of supply voltage	AC

Voltage

Dielectric strength value of power frequency	2 kV
Rated insulation voltage	500 V
Max operating voltage	240 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	30 mA
Rated current	6 A
Withstand not tripping on 8-20 µs wave	250 A
Breaking and opening capacity	4500 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	5 / 10 In

Electric current / temperature

Rating current -25°C	7.2 A
Rating current -20°C	7.1 A
Rating current -15°C	7 A
Rating current -10°C	6.9 A
Rating current -5°C	6.8 A

Rating current 0°C	6.7 A
Rating current 5°C	6.6 A
Rating current 10°C	6.5 A
Rating current 15°C	6.4 A
Rating current 20°C	6.2 A
Rating current 25°C	6.1 A
Rating current 30°C	6 A
Rating current 35°C	5.9 A
Rating current 40°C	5.8 A
Rating current 45°C	5.7 A
Rating current 50°C	5.6 A
Rating current 55°C	5.5 A
Rating current 60°C	5.4 A
Rating current 70°C	4.08 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85

Dimensions

Depth of installed product	68 mm
Height of installed product	83 mm
Width of installed product	35 mm

Frequency

Frequency	50 Hz

Power

Total power loss under IN	1.9 W
Power loss per pole at In	1.8 W

Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	2000

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,1Nm
Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	BIconnect + bypass
Top removability for modular devices	No
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm²
Cage clamp position	in line
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm²

Cable

Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm²) according to product standard	1 mm²

Equipment

Can be accessorized	Yes
With transparent product label holder	Yes

Standards

Standard text	IEC 61009-1 ; AS/NZS 61009-1

Safety

Residual current type	A
REACH conform	No
RoHS conform	Yes
Halogen free	No

Use conditions

Operating temperature	-25…40 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25…70 °C

temperatur

Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	23.6 °C
Max. admissible temperature on accessible parts (intended to be touched)	51.5 °C
Max. admissible temperature on accessible parts (manual operating means)	44.7 °C

Max. admissible temperature on access. parts (not touched for normal operation)	61.6 °C
Max. admissible temperature on terminals	54.2 °C
Temp.-rise limits for access. parts (toggle) according to product standard	25 K
Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temp.rise limits for access. parts (to be touched) according to product standard	40 K
Temperature-rise limits for terminals according to the product standard	65 K
Temperature-rise measured on accessible parts at In (manual operating means)	4.7 K
Temperature-rise measured on access. parts at In (not touched normal operation)	21.6 K
Temperature-rise measured on accessible parts at In (intended to be touched)	11.5 K
Temperature-rise measured on terminals at In	14.2 K