

EN 61095, IEC 1095

iCT contactors are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated.

The breadth of the iCT contactor range satisfies most application cases.
iCT contactors can be combined with auxiliary control, protection and indication functions.

Contactors

iCT 2P
PB106115-35




manual control

iCT 4P
PB106105-35



- iCT contactors can be used to remote control applications in alternative networks:
 - lighting, heating, ventilation, roller blinds, sanitary hot water
 - mechanical ventilation systems, etc
 - load-shedding of non-priority circuits


PB106120-34



Indication iACTs

- This auxiliary allows indication or control of the "open" or "closed" position of the contactor power contacts


PB106124-34



Interference filtering iACTp

- This auxiliary is an interference suppressor which limits overvoltages on the control circuit


PB106123-34



Dual control iACTc

- Used to control a contactor in impulse-type mode or to combine latched or impulse-type control orders

PB106125-34



Time delay iATEt

- This auxiliary is used to time delay for iCT and iTL. According to cabling, there are 5 possible time delay types:
 - 1 for iTL
 - 4 for iCT

Function type A: late closing
Delay energizing of contactor

Function type B: time delay

- Energize the contactor by closing a push button
- The time delay starts as soon as the control contacts are closed

Function type C: late opening

- Energize the contactor by closing a push button
- The time delay starts when the control contacts are opened

Function type H: fixed time operation

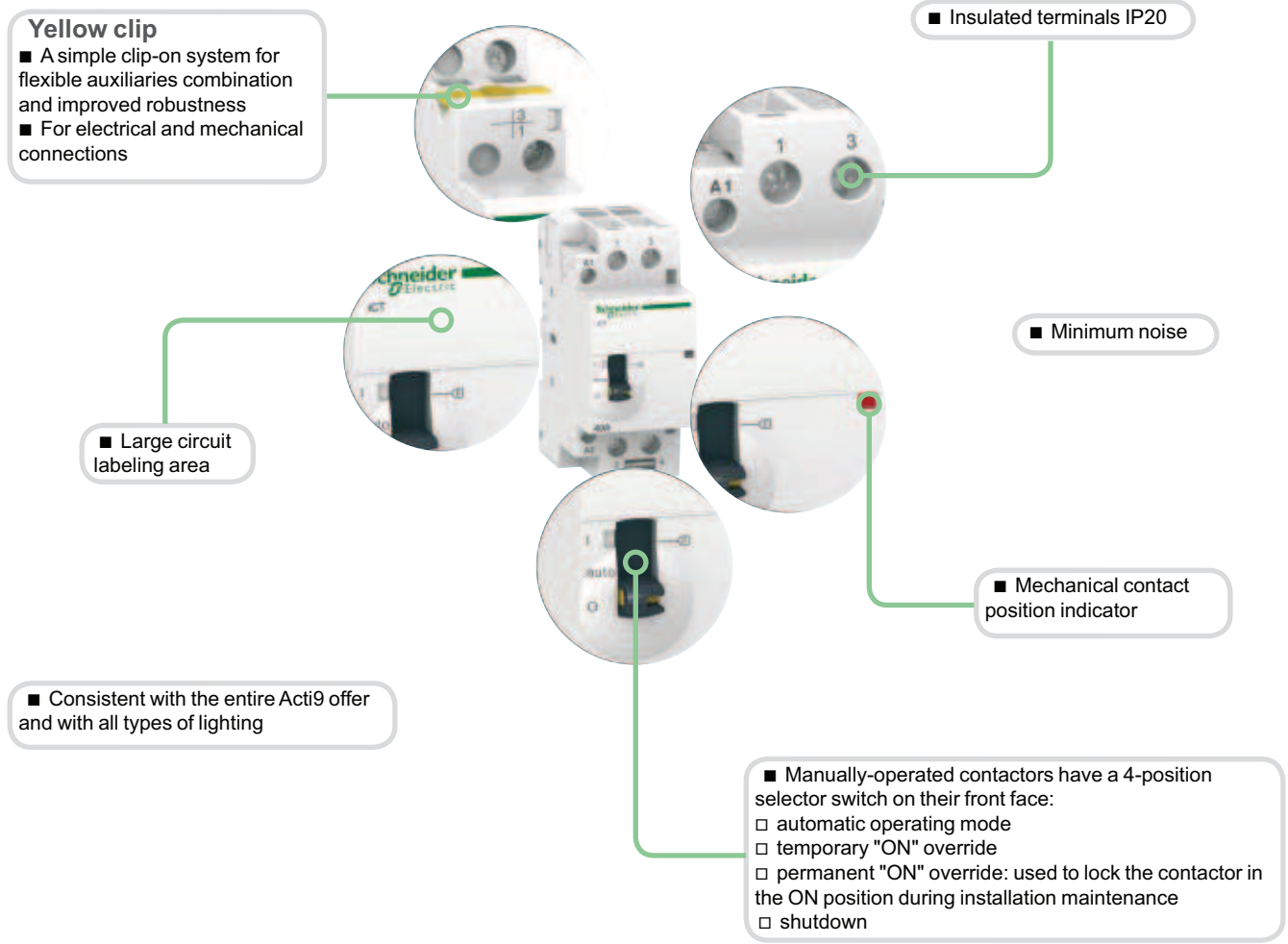
- Operate the contactor for a pre-determined time from the moment of energizing

Contactors

Contactors auxiliaries

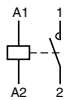
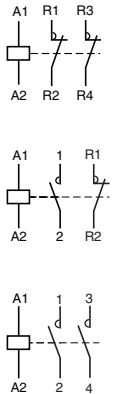
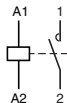
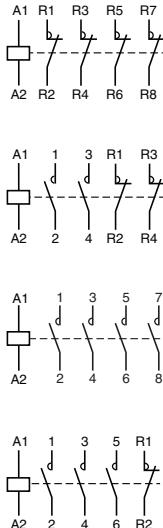
		Choice of 50 Hz contactors					
Type		Contactor					
Rating	A	16	20	25	40	63	100
Auxiliaries							
iACTs indication auxiliary		Yes	Yes	Yes			
iACTp protection auxiliary	By yellow clips	No	No	Yes			
iACTc, iATEt control auxiliary	By yellow clips	No	No	Yes			

PB10611E-39

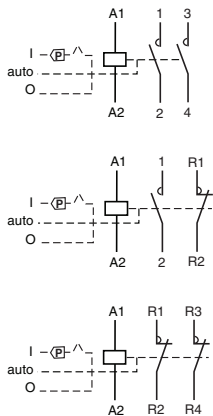
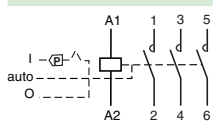
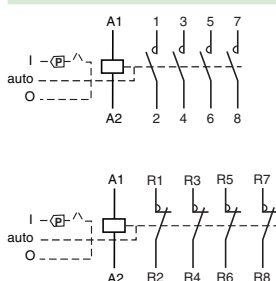


					Choice of 60 Hz contactors				
Manually-operated contactors				Contactor				Manually-operated contactors	
16	25	40	63	16	25	40	63	40	
Contactors that can be equipped with auxiliaries				Contactors that can be equipped with auxiliaries					
Yes				Yes					
Yes	Yes			Yes	Yes				
No	Yes			No	Yes				

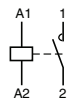
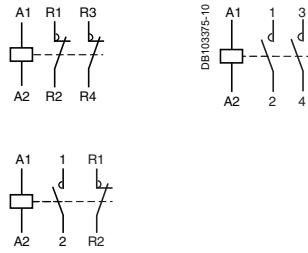
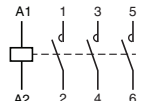
Catalogue numbers

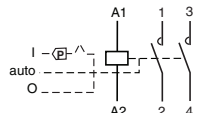
iCT contactors - 50 Hz								
Type	Rating (In)		Control voltage (V AC) (50 Hz)	Contact	Width in 9 mm modules			
	AC7a	AC7b						
1P 	16 A	6 A	12	1NO	A9C22011	2		
			24	1NO	A9C22111	2		
			48	1NO	A9C22211	2		
			220	1NO	A9C22511	2		
			230...240	1NO	A9C22711	2		
			25 A	8.5 A	220	1NO	A9C20531	2
			230...240	1NO	A9C20731	2		
2P 	16 A	6 A	12	2NO	A9C22012	2		
			24	2NO	A9C22112	2		
			48	2NO	A9C22212	2		
			220	2NO	A9C22512	2		
			230...240	2NO	A9C22712	2		
			20 A	6 A	230...240	1NO+1NC	A9C22015	2
	25 A	8.5 A	24	1NO+1NC	A9C22115	2		
			48	1NO+1NC	A9C22515	2		
			220	1NO+1NC	A9C22715	2		
			230...240	1NO+1NC	A9C22715	2		
			220	2NO	A9C20132	2		
			48	2NO	A9C20232	2		
				220	2NO	A9C20532	2	
				230...240	2NO	A9C20732	2	
				220	2NC	A9C20536	2	
				230...240	2NC	A9C20736	2	
	40 A	15 A	220...240	2NO	A9C20842	4		
	63 A	20 A	24	2NO	A9C20162	4		
		220...240	2NO	A9C20862	4			
100 A	-	220...240	2NO	A9C20882	6			
3P 	16 A	6 A	220...240	3NO	A9C22813	4		
	25 A	8.5 A	220...240	3NO	A9C20833	4		
	40 A	15 A	220...240	3NO	A9C20843	6		
	63 A	20 A	220...240	3NO	A9C20863	6		
4P 	16 A	6 A	24	4NO	A9C22114	4		
			220...240	4NO	A9C22814	4		
			220...240	2NO+2NC	A9C22818	4		
	20 A	6 A	220...240	4NO	A9C22824	4		
			25 A	8.5 A	24	4NO	A9C20134	4
					220...240	4NO	A9C20834	4
	24	4NC			A9C20137	4		
				220...240	4NC	A9C20837	4	
				220...240	2NO+2NC	A9C20838	4	
	40 A	15 A	220...240	4NO	A9C20844	6		
	63 A	20 A	220...240	4NC	A9C20847	6		
			24	4NO	A9C20164	6		
			220...240	4NO	A9C20864	6		
			24	4NC	A9C20167	6		
			220...240	4NC	A9C20867	6		
			220...240	2NO+2NC	A9C20868	6		
	100 A	-	220...240	3NO+1NC	A9C20869	6		
			220...240	4NO	A9C20884	12		

Catalogue numbers

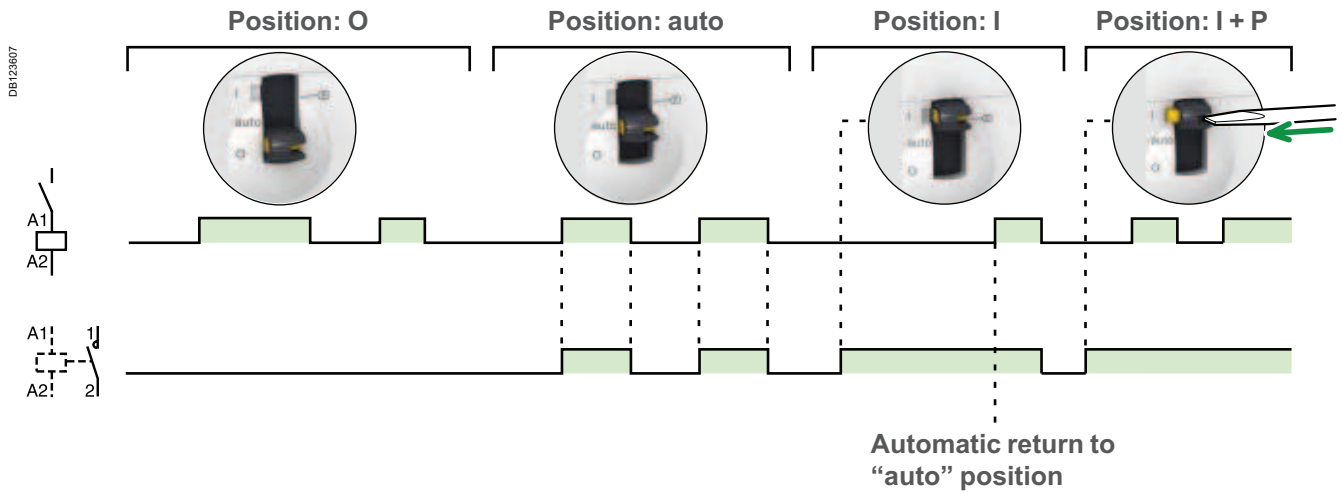
iCT manual control contactor 50 Hz						
Type	Rating (In)		Control voltage (V AC) (50 Hz)	Contact	Width in 9 mm modules	
	AC7a	AC7b				
2P 	16 A	6 A	220	2NO	A9C23512	2
			230...240	2NO	A9C23712	2
			220	1NO+1NC	A9C23515	2
			230...240	1NO+1NC	A9C23715	2
	25 A	8.5 A	24	2NO	A9C21132	2
			24	2NC	A9C21136	2
			220	2NO	A9C21532	2
			230...240	2NO	A9C21732	2
	40 A	15 A	24	2NO	A9C21142	2
			220...240	2NO	A9C21842	4
63 A	20 A	24	2NO	A9C21162	4	
		220...240	2NO	A9C21862	4	
3P 	25 A	8.5 A	220...240	3NO	A9C21833	4
	40 A	15 A	220...240	3NO	A9C21843	6
4P 	25 A	8.5 A	24	4NO	A9C21134	4
			24	4NC	A9C21137	4
			220...240	4NO	A9C21834	4
	40 A	15 A	24	4NO	A9C21144	6
			24	4NC	A9C21147	6
			220...240	4NO	A9C21844	6
	63 A	20 A	24	4NO	A9C21164	6
			220...240	4NO	A9C21864	6

Catalogue numbers

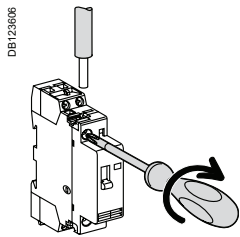
ICT contactors - 60 Hz						
Type	Rating (In)		Control voltage (V AC) (60 Hz)	Contact		Width in 9 mm modules
	AC7a	AC7b				
 DB103373-5	25 A	8.5 A	127	1NO	A9C20431	2
			220...240	1NO	A9C20631	2
 DB122915 DB103375-10 DB103377-11	16 A	6 A	127	1NO+1NC	A9C22415	2
			220...240	1NO+1NC	A9C22615	2
	25 A	8.5 A	127	2NO	A9C20432	2
			220...240	2NO	A9C20632	2
			127	2NC	A9C20436	2
			220...240	2NC	A9C20636	2
	40 A	15 A	127	2NO	A9C20442	4
			220...240	2NO	A9C20642	4
 DB103378-14	25 A	8.5 A	127	3NO	A9C20433	4
			220...240	3NO	A9C20633	4
	40 A	15 A	127	3NO	A9C20443	6
			220...240	3NO	A9C20643	6
	63 A	20 A	127	3NO	A9C20463	6
			220...240	3NO	A9C20663	6









ICT manual control contactor 60 Hz						
Type	Rating (In)		Control voltage (V AC) (60 Hz)	Contact		Width in 9 mm modules
	AC7a	AC7b				
 DB106317-24	40 A	15 A	127	2NO	A9C21442	4
			220...240	2NO	A9C21642	4

Operation (Manual control contactor)



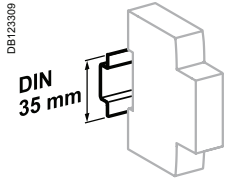
Connection



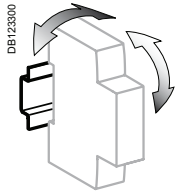
Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
iCT	PZ1: 4 mm	16 - 100 A	9 mm	Control	0.8 N.m		
		16 and 25 A		Power			
	PZ2: 6 mm	40 A - 63 A	14 mm		3.5 N.m		
		100 A					
iACTs, iACTp, iACTc, iATEt	PZ1: 4 mm	-	9 mm	-	0.8 N.m		

DE122945

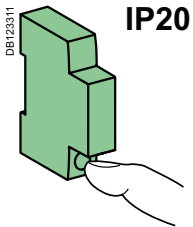
DE122946



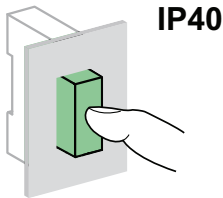
Clip on DIN rail 35 mm.



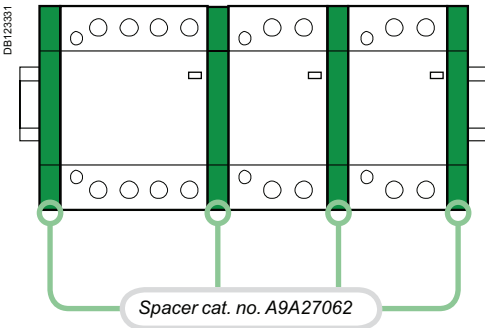
± 30° vertical.



IP20



IP40



Technical data

Power circuit		
Voltage rating (Ue)	1P, 2P	250 V AC
	3P, 4P	400 V AC
Frequency	50 Hz or 60 Hz	
Type of load	See module CA908026	
Endurance (O-C)		
Electrical	100,000 cycles	
Maximum number of switching operation a day	100	
Additional characteristics		
Insulation voltage (Ui)	500 V AC	
Pollution degree	2	
Rated impulse withstand voltage (Uimp)	2.5 kV (4 kV for 12/24/48 V AC)	
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature	-5°C to +60°C ⁽¹⁾	
Storage temperature	-40°C to +70°C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity 95 % at 55°C)	
ELSV compliance (Extra Low Safety Voltage) for 12/24/48 V AC versions		
The product control conforms to the SELV (safety extra low voltage) requirements		

(1) In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C, it is necessary to use a spacer, cat. no. A9A27062, between each contactor

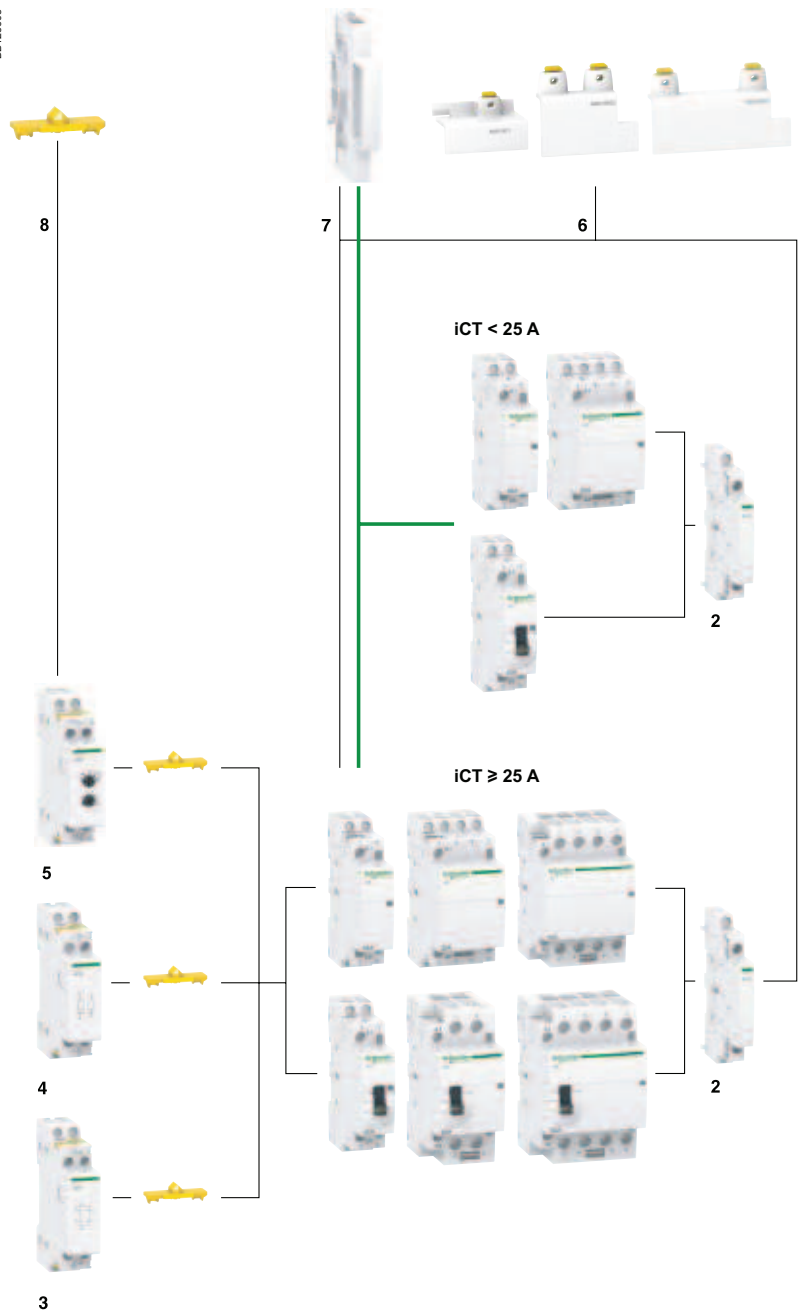
Mounting accessories




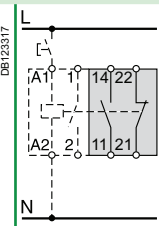
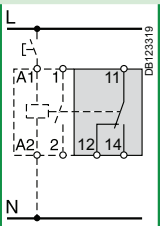
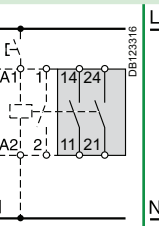
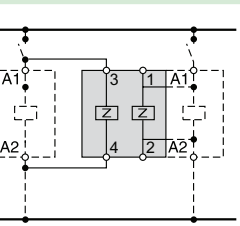
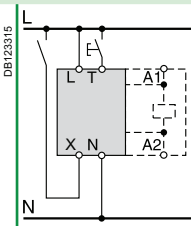
6	Sealable screw shields for top and bottom	3P, 4P 25 A	A9A15921
		2P 40/63 A	A9A15922
		3P, 4P 40/63 A	A9A15923
7	9 mm spacer	A9A27062	
8	Yellow clips	A9C15415	

DB123608

Auxiliaries

Indication			
2	iACTs	1NO + 1NC	A9C15914
		1CO	A9C15915
		2NO	A9C15916
Double control inputs			
3	iACTc	230 V AC	A9C18308
		24 V AC	A9C18309
Coil suppression blocs			
4	iACTp	12...48 V AC	A9C15919
		48...127 V AC	A9C15918
		220...240 V AC	A9C15920
Time delay			
5	iATEt	24...240 V AC	A9C15419



Auxiliaries	Indication			Protection			Control						
Type	iACTs			iACTp			iACTc						
	Indication With Open/Close auxiliary contact 			Interference filtering 2 protection circuits 			Impulse/latched control 						
Function	<ul style="list-style-type: none"> This auxiliary allows indication of the "open" or "closed" position of the contactor power contacts 			<ul style="list-style-type: none"> This auxiliary is an interference suppressor which limits overvoltages on the control circuit 			<ul style="list-style-type: none"> This auxiliary, combined with contactors, enables them to be controlled by 2 order types: <ul style="list-style-type: none"> impulse order for local control (input T) latched order for centralised control (input X) the last order received takes priority 						
Wiring diagrams													
Mounting	<ul style="list-style-type: none"> Mounted to the right of iCT 			<ul style="list-style-type: none"> Mounted to the left of iCT by yellow clips⁽¹⁾ By wires 			<ul style="list-style-type: none"> Mounted to the left of iCT by yellow clips⁽¹⁾ 						
Use	-			<ul style="list-style-type: none"> The iACTp has 2 separate and identical circuits, allowing it to be combined with 2 different one on the iCT the other by wires 			<ul style="list-style-type: none"> Mains power outages: <ul style="list-style-type: none"> < 1 s: keeps its initial status ≥ 5 s: reset put back into operation by manual operation on input X or T. Minimum impulse duration: 250 ms 						
Catalogue numbers	A9C15914	A9C15915	A9C15916	A9C15918	A9C15919	A9C15920	A9C18308	A9C18309					
Technical specifications													
Control voltage (Ue)	V AC	24...240		48 ...127	12 ...48	220 ...240	230...240	24...48					
	V DC	24...130		-		-		-					
Operating frequency	Hz	50/60		50/60		50/60		-					
Width in 9 mm modules		1		2		2		-					
Auxiliary contact (breaking capacity)		<ul style="list-style-type: none"> Minimum: 10 mA at 24 V DC/AC - cos φ = 1 Maximum: <ul style="list-style-type: none"> 5 A at 240 V AC - cos φ = 1 1 A at 130 V DC 		-		-		-					
Number of contacts		1NO + 1NC	1CO	2NO		-		-					
Operating temperature	°C	-5°C to +50°C		-		-		-					
Storage temperature	°C	-40°C to +70°C		-		-		-					
Consumption		-		-		-		OFF load: 3 VA Inrush ⁽²⁾ : 2 VA Holding ⁽²⁾ : 0.2 VA					

(1) Electrical and mechanical link.

(2) Maximum consumption of all contactors controlled.

Control (cont.)

iATEt

Time delay

PB106125-34



- This auxiliary is used to time delay for iCT and iTL. According to cabling, there are 5 possible time delay types:
 - 1 for iTL
 - 4 for iCT.

Function type A: late closing

- Delay energizing of contactor.

Function type B: time delay

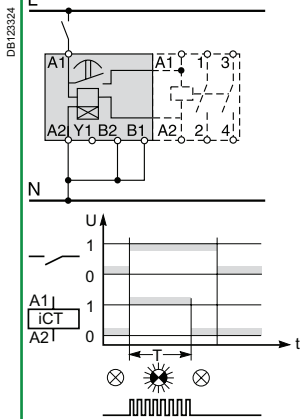
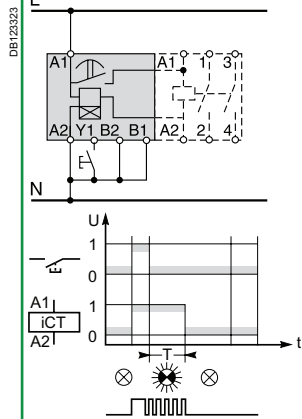
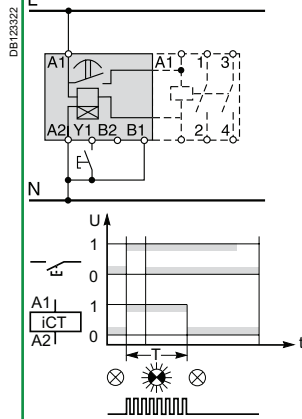
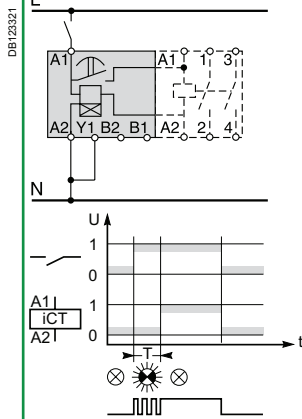
- Energize the contactor by closing a push button.
- The time delay starts as soon as the control contacts are closed.

Function type C: late opening

- Energize the contactor by closing a push button.
- The time delay starts when the control contacts are opened.

Function type H: fixed time operation

- Operate the contactor for a pre-determined time from the moment of energizing.



- Mounted to the left of iCT by yellow clips⁽¹⁾

A9C15419

24...240

24...110






50/60

2

-20°C to +50°C

-40°C to +80°C

Off-load: 5 VA
Inrush⁽²⁾: 3 A
Holding⁽²⁾: 0.2 A

Security									
Accessories	Sealable screw shields			Yellow clips	Spacer				
PE104485-15		PE104486-15		PE104487-15		PE105153-10		PE104483-40	
Function	<ul style="list-style-type: none"> ■ Designed to cover terminals to avoid contact with device screws. ■ Allow sealing 			<ul style="list-style-type: none"> ■ Ensure the mechanical and/or electrical link between contactors and their auxiliaries. 		<ul style="list-style-type: none"> ■ Required to reduce temperature rise of modular devices installed side by side. ■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors). 			
Use	<ul style="list-style-type: none"> ■ Bag of 10 upstream/10 downstream 			<ul style="list-style-type: none"> ■ Bag of 10 		<ul style="list-style-type: none"> ■ Bag of 5 			
Catalogue numbers	A9A15921	A9A15922	A9A15923	A9C15415	A9A27062				
Technical specifications									
Width in 9 mm modules	4	4	6	–	1				
Number of poles	3P, 4P	2P	3P	–	–				

Consumption

iCT contactors - 50 Hz											
Type											
1P	Rating (In)		Control voltage (V AC) (50 Hz)	Consumption		Max. power					
	AC7a	AC7b		Holding	Inrush						
16 A	5 A		12	3.8 VA	15 VA	1.3 W	A9C22011				
			24	3.8 VA	15 VA	1.3 W	A9C22111				
			48	3.8 VA	15 VA	1.3 W	A9C22211				
			220	3.8 VA	15 VA	1.3 W	A9C22511				
			230...240	2.7 VA	9.2 VA	1.2 W	A9C22711				
	25 A	8.5 A		220	3.8 VA	15 VA	1.3 W	A9C20531			
				230...240	2.7 VA	9.2 VA	1.2 W	A9C20731			
				2P							
				16 A	5 A		12	3.8 VA	15 VA	1.3 W	A9C22012
							24	3.8 VA	15 VA	1.3 W	A9C22112
48	3.8 VA	15 VA	1.3 W				A9C22212				
220	3.8 VA	15 VA	1.3 W				A9C22512				
230...240	2.7 VA	9.2 VA	1.2 W				A9C22712				
12	3.8 VA	15 VA	1.3 W				A9C22015				
24	3.8 VA	15 VA	1.3 W				A9C22115				
220	3.8 VA	15 VA	1.3 W	A9C22515							
230...240	2.7 VA	9.2 VA	1.2 W	A9C22715							
20 A	6.4 A		230...240	2.7 VA	9.2 VA	1.2 W	A9C22722				
25 A	8.5 A		24	3.8 VA	15 VA	1.3 W	A9C20132				
			48	3.8 VA	15 VA	1.3 W	A9C20232				
			220	3.8 VA	15 VA	1.3 W	A9C20532				
			230...240	2.7 VA	9.2 VA	1.2 W	A9C20732				
			220	3.8 VA	15 VA	1.3 W	A9C20536				
230...240	2.7 VA	9.2 VA	1.2 W	A9C20736							
40 A	15 A		220...240	4.6 VA	34 VA	1.6 W	A9C20842				
63 A	20 A		24	4.6 VA	34 VA	1.6 W	A9C20162				
			220...240	4.6 VA	34 VA	1.6 W	A9C20862				
100 A	-		220...240	6.5 VA	53 VA	2.1 W	A9C20882				
3P											
16 A	5 A		220...240	4.6 VA	34 VA	1.6 W	A9C22813				
25 A	8.5 A		220...240	4.6 VA	34 VA	1.6 W	A9C20833				
40 A	15 A		220...240	6.5 VA	53 VA	2.1 W	A9C20843				
63 A	20 A		220...240	6.5 VA	53 VA	2.1 W	A9C20863				
4P											
16 A	5 A		24	4.6 VA	34 VA	1.6 W	A9C22114				
			220...240	4.6 VA	34 VA	1.6 W	A9C22814				
			220...240	4.6 VA	34 VA	1.6 W	A9C22818				
20 A	6.4 A		220...240	4.6 VA	34 VA	1.6 W	A9C22824				
25 A	8.5 A		24	4.6 VA	34 VA	1.6 W	A9C20134				
			220...240	4.6 VA	34 VA	1.6 W	A9C20834				
			24	4.6 VA	34 VA	1.6 W	A9C20137				
			220...240	4.6 VA	34 VA	1.6 W	A9C20837				
			220...240	4.6 VA	34 VA	1.6 W	A9C20838				
40 A	15 A		220...240	6.5 VA	53 VA	2.1 W	A9C20844				
			220...240	6.5 VA	53 VA	2.1 W	A9C20847				
63 A	20 A		24	6.5 VA	53 VA	2.1 W	A9C20164				
			220...240	6.5 VA	53 VA	2.1 W	A9C20864				
			24	6.5 VA	53 VA	2.1 W	A9C20167				
			220...240	6.5 VA	53 VA	2.1 W	A9C20867				
			220...240	6.5 VA	53 VA	2.1 W	A9C20868				
			220...240	6.5 VA	53 VA	2.1 W	A9C20869				
100 A	-		220...240	13 VA	106 VA	4.2 W	A9C20884				

iCT contactors

Technical advice for iCT (cont.)

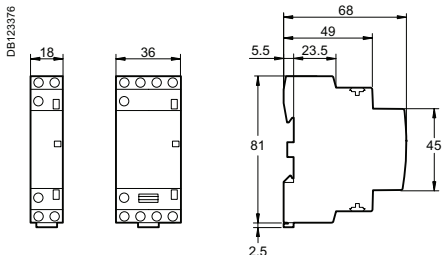
Consumption (cont.)

iCT manual control contactor 50 Hz								
Type								
2P	Rating (In)		Control voltage (V AC) (50 Hz)	Consumption		Max. power		
	AC7a	AC7b		Holding	Inrush			
16 A	5 A		220	2.7 VA	9.2 VA	1.2 W	A9C23512	
			230...240	2.7 VA	9.2 VA	1.2 W	A9C23712	
			220	3.8 VA	15 VA	1.3 W	A9C23515	
			230...240	2.7 VA	9.2 VA	1.2 W	A9C23715	
	25 A	8.5 A		24	3.8 VA	15 VA	1.3 W	A9C21132
				24	3.8 VA	15 VA	1.3 W	A9C21136
				220	2.7 VA	9.2 VA	1.2 W	A9C21532
				230...240	2.7 VA	9.2 VA	1.2 W	A9C21732
40 A	15 A		24	4.6 VA	34 VA	1.6 W	A9C21142	
			220...240	4.6 VA	34 VA	1.6 W	A9C21842	
63 A	20 A		24	4.6 VA	34 VA	1.6 W	A9C21162	
			220...240	4.6 VA	34 VA	1.6 W	A9C21862	
3P								
25 A	8.5 A		220...240	4.6 VA	34 VA	1.6 W	A9C21833	
40 A	15 A		220...240	6.5 VA	53 VA	2.1 W	A9C21843	
4P								
25 A	8.5 A		24	4.6 VA	34 VA	1.6 W	A9C21134	
			24	4.6 VA	34 VA	1.6 W	A9C21137	
			220...240	4.6 VA	34 VA	1.6 W	A9C21834	
40 A	15 A		24	6.5 VA	53 VA	2.1 W	A9C21144	
			24	6.5 VA	53 VA	2.1 W	A9C21147	
			220...240	6.5 VA	53 VA	2.1 W	A9C21844	
63 A	20 A		24	6.5 VA	53 VA	2.1 W	A9C21164	
			220...240	6.5 VA	53 VA	2.1 W	A9C21864	

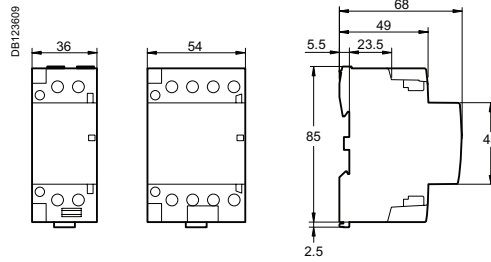
iCT contactors - 60 Hz

iCT contactors - 60 Hz							
Type							
1P	Rating (In)		Control voltage (V AC) (60 Hz)	Consumption		Max. power	
	AC7a	AC7b		Holding	Inrush		
25 A	8.5 A		127	3.8 VA	15 VA	1.3 W	A9C20431
			220 ...240	2.7 VA	9.2 VA	0.9 W	A9C20631
2P							
16 A	5 A		127	3.8 VA	15 VA	1.3 W	A9C22415
			220...240	2.7 VA	9.2 VA	0.9 W	A9C22615
25 A	8.5 A		127	3.8 VA	15 VA	1.3 W	A9C20432
			220...240	2.7 VA	9.2 VA	0.9 W	A9C20632
			127	3.8 VA	15 VA	1.3 W	A9C20436
			220...240	2.7 VA	9.2 VA	0.9 W	A9C20636
40 A	15 A		127	4.6 VA	34 VA	1.6 W	A9C20442
			220...240	4.6 VA	34 VA	1.6 W	A9C20642
3P							
25 A	8.5 A		127	4.6 VA	34 VA	1.6 W	A9C20433
			220...240	4.6 VA	34 VA	1.6 W	A9C20633
40 A	15 A		127	6.5 VA	53 VA	2.1 W	A9C20443
			220...240	6.5 VA	53 VA	2.1 W	A9C20643
63 A	20 A		127	6.5 VA	53 VA	2.1 W	A9C20463
			220...240	6.5 VA	53 VA	2.1 W	A9C20663

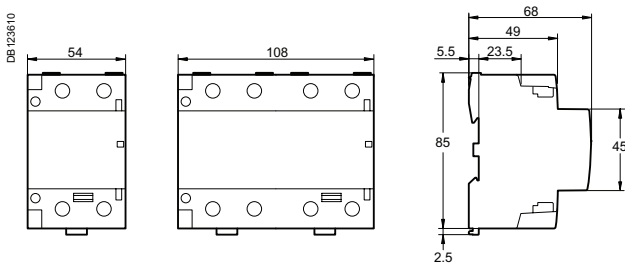
Dimensions (mm)



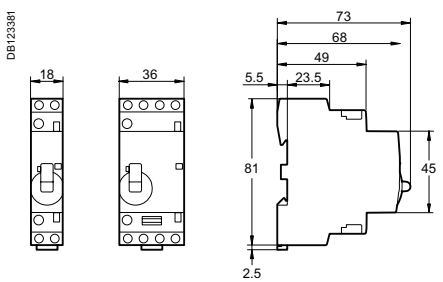
iCT 16/25 A



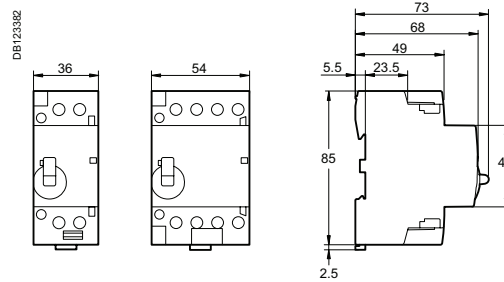
iCT 40/63 A



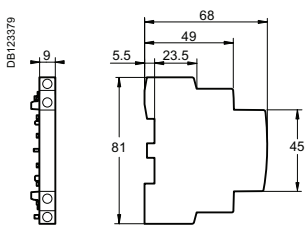
iCT 100 A



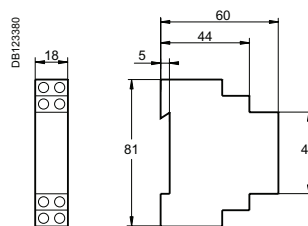
iCT manual control contactor 16/25 A



iCT manual control contactor 40/63 A



iACTs



iACTe
iACTp
iACTc