

Acti9 products

The following table indicates the average dissipated power per pole in W for a current equal to the rating of the device and at the operating voltage.

Rating (A)	0.5	1	1.6	2	2.5	3	4	6	6.3	10	12.5	13	16	20	25	32	40	50	63	80	100	125	
Circuit breakers																							
iC60N/H/L	2.3	2.3		1.9		2.2	2.4	1.3		2		2	2.1	2.2	2.7	2.8	3.6	4	5.6				
iC60L-MA			0.7		0.2		0.6		0.9	1.1	1.5		1.6		0.8		2						
iK60		2.3		1.9		2.2	2.4	2.7		1.8			2.5	3	3.1	3.5	3.6	4	5.6				
Integrated control circuit breakers																							
Reflex Power circuit										2							2.1		2.7		3.6		5.6
iC60N/H Control circuit	See module CA904012																						
RCCB																							
iID 2P													0.8		0.9		2.6		2.6	3	5		
iID 4P															0.7		1.9		1.5	2.6	4.3		
iID K															2.7		3.6		5.6				
Add-on residual current devices																							
Vigi iC60 10 mA																3							
Vigi iC60 30 mA																1.4		1.1		2.3			
Vigi iC60 100 mA																1.1				2.3			
Vigi iC60 300 mA																1.3		0.9		2.3			
Vigi iC60 500 mA																1.1		0.9		2.3			
Vigi iC60 1000 mA																				2.3			
Contactors																							
iCT/iCT+ Power circuit													0.6	0.9	1.4		1.5		3.4		4		
iCT/iCT+ Control circuit	See module CA904007																						
Impulse relays																							
iTL/iTL+ Power circuit													0.6			1.5							
iTL/iTL+ Control circuit	See module CA904008																						
Push-buttons																							
iPB														0.6									
Selector switches																							
iSSW															0.8								
iCMA/iCMB/iCMC/ iCMDV/iCMV									0.4														
Load-shedders																							
DSE1, CDS, CDSc																1.8				3			
Relays																							
iRTA, iRTB, iRTC, iRTH, iRTL, iRTMF													2.5										
Switch-disconnectors																							
iSW																	0.6		1.8		4.7	6.4	
iSW-NA 2P																	0.7		1.8		3	5	
iSW-NA 4P																	0.6		1.5		2.5	4.1	
Remote controls																							
RCA, ARA	See module CA904010 and CA904011																						
Indication auxiliaries																							
iOF, iSD, iOF/SD+OF	See module CA908028																						
Tripping auxiliaries																							
iMN, iMNs, iMNx, iMX+OF, iMX, iMSU	See module CA908029																						
Indicator lights																							
iIL	0.3																						
Transformers																							
iTR	4																						

Note: When the enclosure's thermal balance, consider the 4P devices load is only on 3 phases.
RCBO dissipated power per pole is the sum of circuit breaker dissipated power per pole + add-on residual current device dissipated power per pole.
Example: iC60N (25 A) + Vigi iC60 (30 mA) = 2.7 + 1.4 = 4.1 W.

Impedance calculation:

$$Z = P / I^2$$

Z: impedance in Ohms

P: dissipated power in Watts (table values)

I: rating in Amperes

Voltage drop calculation:

$$U = P / I$$

U: voltage drop in Volts

P: dissipated power in Watts (table values)

I: rating in Amperes

Dissipated power, Impedance and Voltage drop (cont.)

Multi 9 products

The following table indicates the average dissipated power per pole in W for a current equal to the rating of the device and at the operating voltage.

Rating (A)	0.5	1	1.6	2	2.5	3	4	6	6.3	10	12.5	13	16	20	25	32	40	50	63	80	100	125
Circuit breakers																						
DPN		2.5		1.9		2.1	2.6	2.7		2.7		3.3	3.2	4.7	4.7	4.6	5.8					
C60/C60H-DC	2.2	2.3		2.6		2.2	2.4	2.7		1.8		2.5	2.5	3	3.1	3.5	4.3	4.8	6.1			
C120										1.3			2.1	2.3	2.5	3.2	3.1	3.2	3	3.2	2	4.1
NG125										1.7			2.4	2.7	2.7	3.8	3.8	4.2	4	5.6	5.2	8
C60L-MA			2.4		2.5		2.4		3	2	2.5		2.6		3		4.6					
NG125L-MA							0.15		0.15	0.2	0.4		0.3		0.6		1.4		2	2.7		
RCCB																						
ID Type A/AC															1.4		3.6		4.4	7.2	18	28
ID Type B															1.2		2.9		7.2	12	18	28
Add-on residual current devices																						
Vigi DPN															1.4		2.1					
Vigi C60															2.8		1.6		3			
Vigi C120																						3.6
Vigi NG125																						4
Residual current device reclosers																						
RED, REDs, REDtest															1.5		2.7		3.1			
Contactors																						
CT/CT+ Power circuit														0.9	1	1.4		1.4		3.4		4
Control circuit	See module 92020																					
Impulse relays																						
TL/TL+ Power circuit													0.9			1.4						
Control circuit	See module 92011																					
Push-buttons																						
BP														0.6								
Selector switches																						
CM														0.8								
CMA/CMB/CMC/CMD/CMV									0.4													
Load-shedders																						
DSE1, CDS, CDS _c																1.8				3		
Relays																						
RTA, RTB, RTC, RTH, RTL, RTMF													2.5									
Switch-disconnectors																						
I, iSW														0.8		1.3	1.1		1.8		3.4	4.2
I-NA																	3.2		3.2			
NG125NA																			2	2.7	4	7
Indication auxiliaries																						
OF, SD, OF+SD/OF	See module 92605																					
Tripping auxiliaries																						
MN, MNs, MNx, MX+OF, MX, MSU	See module 92605																					
Indicator lights																						
V	0.3																					
Transformers																						
TR	4																					

Note: When the enclosure's thermal balance, consider the 4P devices load is only on 3 phases.

RCBO dissipated power per pole is the sum of circuit breaker dissipated power per pole + add-on residual current device dissipated power per pole.

Example: C60N (25 A) + Vigi C60 (25 A) = 3.1 + 1.8 = 4.9 W.

Impedance calculation:

$$Z = P / I^2$$

Z: impedance in Ohms

P: dissipated power in Watts (table values)

I: rating in Amperes

Voltage drop calculation:

$$U = P / I$$

U: voltage drop in Volts

P: dissipated power in Watts (table values)

I: rating in Amperes