

Discrimination table

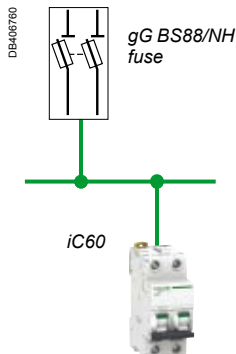
Upstream: type gG BS88 and NH fuse

Downstream: iC60 circuit breaker

Selectivity

Selectivity between MCB iC60 and fuse gG in upstream according to the IEC 60947-2 annexe A.

The table below shows the limits of selectivity for a short-circuit current in kA with a fuse in upstream and a MCB iC60 in downstream.



Upstream		Fuse gG BS88 and NH												
In (A)		16	20	25	32	40	50	63	80	100	125	160	200	250
Downstream Rating (A)														
Discrimination limit (kA)														
iC60 Curve B	1	1.5	4.8	T	T	T	T	T	T	T	T	T	T	T
	2	0.6	1	2.1	4.5	8.7	29.5	T	T	T	T	T	T	T
	4		0.5	0.9	1.7	2.7	5.3	15.1	T	T	T	T	T	T
	6		0.4	0.7	1.2	1.9	3.4	6.9	19	T	T	T	T	T
	10			0.6	0.9	1.4	2.3	3.9	8.4	16	T	T	T	T
	16				0.7	1.1	1.8	2.8	5.3	9.3	17.5	T	T	T
	20					0.9	1.5	2.3	4.2	7.1	12	T	T	T
	25					0.8	1.3	2.1	3.7	6.1	9.7	T	T	T
	32						1.2	1.9	3.2	5.1	7.6	19.6	T	T
	40						1.1	1.7	2.9	4.6	6.7	13.8	T	T
	50							1.5	2.6	4.2	6.1	12.3	T	T
	63									4	6	11.7	T	T
Discrimination limit (kA)														
iC60 Curve C	1	1.5	4.8	T	T	T	T	T	T	T	T	T	T	T
	2	0.6	1	2.1	4.5	8.7	29.5	T	T	T	T	T	T	T
	4		0.5	0.9	1.7	2.7	5.3	15.1	T	T	T	T	T	T
	6		0.4	0.7	1.2	1.9	3.4	6.9	19	T	T	T	T	T
	10			0.6	0.9	1.4	2.3	3.9	8.4	16	T	T	T	T
	16					1.1	1.8	2.8	5.3	9.3	17.5	T	T	T
	20					0.9	1.5	2.3	4.2	7.1	12	T	T	T
	25						1.3	2.1	3.7	6.1	9.7	T	T	T
	32							1.9	3.2	5.1	7.6	19.6	T	T
	40								2.9	4.6	6.7	13.8	T	T
	50								2.6	4.2	6.1	12.3	T	T
	63									4	6	11.7	T	T
Discrimination limit (kA)														
iC60 Curve D	1	1.5	4.8	T	T	T	T	T	T	T	T	T	T	T
	2	0.6	1	2.1	4.5	8.7	29.5	T	T	T	T	T	T	T
	4		0.5	0.9	1.7	2.7	5.3	15.1	T	T	T	T	T	T
	6			0.7	1.2	1.9	3.4	6.9	19	T	T	T	T	T
	10				0.9	1.4	2.3	3.9	8.4	16	T	T	T	T
	16					1.1	1.8	2.8	5.3	9.3	17.5	T	T	T
	20						1.5	2.3	4.2	7.1	12	T	T	T
	25							2.1	3.7	6.1	9.7	T	T	T
	32								3.2	5.1	7.6	19.6	T	T
	40								2.9	4.6	6.7	13.8	T	T
	50									4.2	6.1	12.3	T	T
	63										6	11.7	T	T

19 Please respect the breaking capacity of the circuit breaker (iC60N: 10 kA, iC60H: 15 kA)

1.9 Discrimination limit (kA) = 1.9 kA.

T Total discrimination.

No discrimination.

Example:

Combination of a fuse gG 63 A in upstream with a MCB iC60 of 25 A B curve in downstream, selectivity up to a short circuit current of 2.1 kA.

Discrimination table

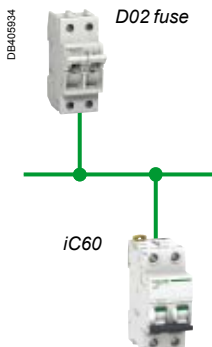
Upstream: type gG Diazed D02 fuse

Downstream: iC60 circuit breaker

Selectivity

Selectivity between MCB iC60 and fuse gG in upstream according to the IEC 60947-2 annexe A.

The table below shows the limits of selectivity for a short-circuit current in kA with a fuse in upstream and a MCB iC60 in downstream.



Upstream	Type gG Diazed D02 fuse						
In (A)	20	25	32	35	40	50	63

Downstream Rating (A)									
Discrimination limit (kA)									
iC60 Curve B	6	0.7	1	1.9	2.2	3.7	5	6.7	
	10	0.5	0.8	1.5	1.6	2.4	3.3	4.1	
	13		0.7	1.2	1.5	2	2.6	3.5	
	16		0.6	1.1	1.2	1.9	2.2	2.9	
	20				1	1.6	1.9	2.4	
	25					1.4	1.7	2	
	32						1.6	1.9	
	40						1.4	1.8	
	50							1.6	
	63								
Discrimination limit (kA)									
iC60 Curve C	6	0.7	1	1.9	2.2	3.7	5	6.7	
	10			1.5	1.6	2.4	3.3	4.1	
	13				1.5	2	2.6	3.5	
	16					1.9	2.2	2.9	
	20						1.9	2.4	
	25						1.7	2	
	32							1.9	
	40								
	Discrimination limit (kA)								
	iC60 Curve D	6		1	1.9	2.2	3.7	5	6.7
10					1.6	2.4	3.3	4.1	
13						2	2.6	3.5	
16							2.2	2.9	
20							1.9	2.4	
25								2	
32									

☒ 1.9 Discrimination limit (kA) = 1.9 kA.

☐ No discrimination.

Example:

Combination of a fuse gG 63 A in upstream with a MCB iC60 of 25 A B curve in downstream, selectivity up to a short circuit current of 2 kA.

Cascading

The table below shows the enhanced breaking capacity thanks to cascading of the iC60 MCB and the maximum rating of the upstream fuse.

Upstream		Type gG Diazed D02 fuse 20 – 63 A
Downstream device		
iC60N	10 kA	50 kA
iC60H	15 kA	
iC60L	25-20-15 kA	

The enhanced breaking capacity is indicated in kA according to IEC 60947-2 annex A.

Coordination with an iLD RCCB

The table below shows the enhanced breaking capacity thanks to cascading of the iC60 MCB and the maximum rating of the upstream fuse, coordinated with an iLD residual current circuit breaker.

Upstream		Type gG Diazed D02 fuse
		20 – 63 A
iLD	Downstream device	
	iC60N 10 kA	30 kA
	iC60H 15 kA	
	iC60L 25-20-15 kA	

The enhanced breaking capacity is indicated in kA according to IEC 60947-2 annex A.





1.1	19/05/2014	Add fuse gG BS88 and NH page	Sedoc
1.0	07/09/2012	Creation	Sedoc
Indice	Date	Modification	Name