

CIRCUIT BREAKER DATA

Luminaire Family:	CIRKEL Downlight
Sub-families:	Square, Round, Wallwasher
Applicable Model Range:	All 8W/850lm DALI variants

Inrush Current and Maximum Loading of Automatic Circuit Breakers (MCB):									
Circuit Breaker Type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush Current
Wire cross section	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	I _{max} Time (*)
Max # of Fittings per MCB	40	56	64	80	24	31	38	48	16A 255µs

(*): Defined as the duration between 10% of peak (ascending) and 50% of peak (descending).

IMPORTANT:

- The above are maximum quantities calculated based on the inrush current and provided as a guide only.
- DO NOT exceed the maximum rated continuous current of the circuit breaker.
- Calculation uses typical values from ABB series S200 as a reference.
- Information about the tripping characteristics of a specific circuit breaker must be requested from the circuit breaker manufacturer!
- Actual values may differ depending on the specific circuit breaker type(s) used and the installation environment such as the cable size, length, safety buffer, etc.

CIRCUIT BREAKER DATA

Luminaire Family:	CIRKEL Downlight
Sub-families:	Square, Round, Wallwasher
Applicable Model Range:	All 8W/850lm Non-Dim variants

Inrush Current and Maximum Loading of Automatic Circuit Breakers (MCB):										
Circuit Breaker Type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush Current	
Wire cross section	1.5mm ²	1.5mm ²	2.5mm ²	2.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²	2.5mm ²	I _{max}	Time (*)
Max # of Fittings per MCB	21	28	36	45	13	17	22	27	22.4A	176µs

(*): Defined as the duration between 10% of peak (ascending) and 50% of peak (descending).

IMPORTANT:

- The above are maximum quantities calculated based on the inrush current and provided as a guide only.
- DO NOT exceed the maximum rated continuous current of the circuit breaker.
- Calculation uses typical values from ABB series S200 as a reference.
- Information about the tripping characteristics of a specific circuit breaker must be requested from the circuit breaker manufacturer!
- Actual values may differ depending on the specific circuit breaker type(s) used and the installation environment such as the cable size, length, safety buffer, etc.

CIRCUIT BREAKER DATA

Luminaire Family:	CIRKEL Downlight
Sub-families:	Square, Round, Wallwasher
Applicable Model Range:	All 15W/1450lm DALI variants

Inrush Current and Maximum Loading of Automatic Circuit Breakers (MCB):										
Circuit Breaker Type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush Current	
Wire cross section	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	I _{max}	Time (*)
Max # of Fittings per MCB	40	56	64	80	21	28	35	44	20A	140μs

(*): Defined as the duration between 10% of peak (ascending) and 50% of peak (descending).

IMPORTANT:

- The above are maximum quantities calculated based on the inrush current and provided as a guide only.
- DO NOT exceed the maximum rated continuous current of the circuit breaker.
- Calculation uses typical values from ABB series S200 as a reference.
- Information about the tripping characteristics of a specific circuit breaker must be requested from the circuit breaker manufacturer!
- Actual values may differ depending on the specific circuit breaker type(s) used and the installation environment such as the cable size, length, safety buffer, etc.

CIRCUIT BREAKER DATA

Luminaire Family:	CIRKEL Downlight
Sub-families:	Square, Round, Wallwasher
Applicable Model Range:	All 15W/1450lm Non-Dim variants

Inrush Current and Maximum Loading of Automatic Circuit Breakers (MCB):										
Circuit Breaker Type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush Current	
Wire cross section	1.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²	1.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²	<i>I_{max}</i>	Time (*)
Max # of Fittings per MCB	52	67	85	104	32	41	50	62	14.5A	114µs

(*): Defined as the duration between 10% of peak (ascending) and 50% of peak (descending).

IMPORTANT:

- The above are maximum quantities calculated based on the inrush current and provided as a guide only.
- DO NOT exceed the maximum rated continuous current of the circuit breaker.
- Calculation uses typical values from ABB series S200 as a reference.
- Information about the tripping characteristics of a specific circuit breaker must be requested from the circuit breaker manufacturer!
- Actual values may differ depending on the specific circuit breaker type(s) used and the installation environment such as the cable size, length, safety buffer, etc.