

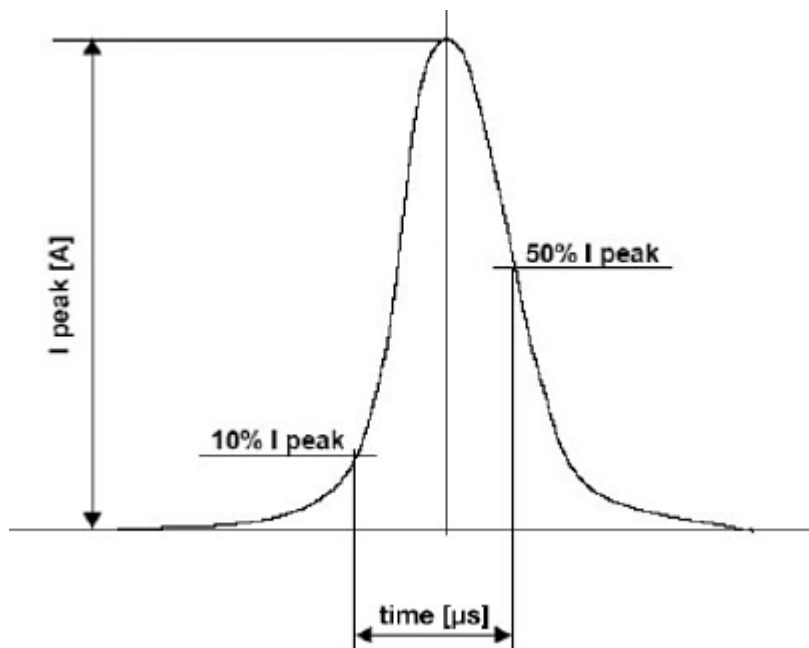
Miniature Circuit Breakers (MCB) max. load list

Miniature Circuit Breakers for use in lightings should consider the maximum current and the inrush current.

Maximum current for the respective ballasts is shown on the datasheet.

Attention: For Multilamp ballasts you have to choose the higher current to calculate the max. load!

Picture: Inrush current amplitude and pulse width.



The table below gives an overview of the maximum allowed load for miniature circuit breaker with TridonicAtco's dimmable electronic ballasts.

PCA T5 EXCEL one4all Ip xitec:

Loading of automatic circuit breakers:		C10	C13	C16	C20	B10	B13	B16	B20
Automatic circuit		1,5	1,5	1,5	2,5	1,5	1,5	1,5	2,5
Installation ø		mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²
PCA 1x14/24 T5 EXCEL one4all Ip xitec	1x14/24	50	80	150	180	25	40	75	90
PCA 1x21/39 T5 EXCEL one4all Ip xitec	1x21/39	24	34	48	52	12	17	24	26
PCA 1x28/54 T5 EXCEL one4all Ip xitec	1x28/54	34	50	76	86	17	25	38	43
PCA 1x35/49/80 T5 EXCEL one4all Ip xitec	1x35/49/80	16	22	30	36	8	11	15	18
PCA 2x14/24 T5 EXCEL one4all Ip xitec	2x14/24	24	34	48	52	12	17	24	26
PCA 2x21/39 T5 EXCEL one4all Ip xitec	2x21/39	14	20	26	32	7	10	13	16
PCA 2x28/54 T5 EXCEL one4all Ip xitec	2x28/54	16	22	30	34	8	11	15	17
PCA 2x35/49 T5 EXCEL one4all Ip xitec	2x35/49	14	20	26	32	7	10	13	16

PCA T5 EXCITE Ip xitec:

Loading of automatic circuit breakers:		C10	C13	C16	C20	B10	B13	B16	B20
Automatic circuit		1,5	1,5	1,5	2,5	1,5	1,5	1,5	2,5
Installation ø		mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²
PCA 1x14/24 T5 EXCITE Ip	1x14/24	50	80	150	180	24	40	75	90
PCA 2x14/24 T5 EXCITE Ip	2x14/24	24	34	48	52	12	17	24	26
PCA 1x21/39 T5 EXCITE Ip	1x21/39	34	50	76	86	17	25	38	43
PCA 2x21/39 T5 EXCITE Ip	2x21/39	16	22	30	36	8	11	15	18
PCA 1x28/54 T5 EXCITE Ip xitec	1x28/54	24	34	48	52	12	17	24	26
PCA 2x28/54 T5 EXCITE Ip xitec	2x28/54	14	20	26	32	7	10	13	16
PCA 1x35/49/80 T5 EXCITE Ip xitec	1x35/49/80	16	22	30	34	8	11	15	17
PCA 2x35/49 T5 EXCITE Ip xitec	2x35/49	14	20	26	32	7	10	13	16

PCA T5 EXCEL/ECO Ip:

Loading of automatic circuit breakers:		C10	C13	C16	C20	B10	B13	B16	B20
Automatic circuit		1,5	1,5	1,5	2,5	1,5	1,5	1,5	2,5
Installation ø		mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²
PCA 1/14 T5 EXCEL/ECO Ip	14W	50	80	150	180	25	40	75	90
PCA 2/14 T5 EXCEL/ECO Ip	2x14W	38	54	78	92	19	27	39	46
PCA 1/21 T5 EXCEL/ECO Ip	21W	50	80	120	150	25	40	75	90
PCA 2/21 T5 EXCEL/ECO Ip	2x21W	30	40	60	64	15	20	30	32
PCA 1/24 T5 EXCEL/ECO Ip	24W	50	80	150	180	25	40	75	90
PCA 2/24 T5 EXCEL/ECO Ip	2x24W	24	34	48	52	12	17	24	26
PCA 1/28 T5 EXCEL/ECO Ip	28W	38	54	78	92	19	27	39	46
PCA 2/28 T5 EXCEL/ECO Ip	2x28W	24	34	48	52	12	17	24	26
PCA 1/35 T5 EXCEL/ECO Ip	35W	34	50	76	86	17	25	38	43
PCA 2/35 T5 EXCEL/ECO Ip	2x35W	16	22	30	32	8	11	15	16
PCA 1/39 T5 EXCEL/ECO Ip	39W	34	50	70	86	17	25	38	43
PCA 2/39 T5 EXCEL/ECO Ip	2x39W	16	22	30	32	8	11	15	16
PCA 1/49 T5 EXCEL/ECO Ip	49W	24	34	48	52	12	17	24	26
PCA 2/49 T5 EXCEL/ECO Ip	2x49W	12	18	26	26	6	9	13	13
PCA 1/54 T5 EXCEL/ECO Ip	54W	24	34	48	52	12	17	24	26
PCA 2/54 T5 EXCEL/ECO Ip	2x54W	12	18	26	26	6	9	13	13
PCA 1/80 T5 EXCEL/ECO Ip	80W	14	20	28	28	7	10	14	14
PCA 2/80 T5 EXCEL/ECO one4all Ip	2x80W	10	14	20	22	5	7	10	11

PCA T5 EXCEL/ECO:

Loading of automatic circuit breakers:									
Automatic circuit		C10	C13	C16	C20	B10	B13	B16	B20
Installation \varnothing		1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²
PCA 1/14 T5 EXCEL/ECO	14W	30	50	70	80	15	25	35	40
PCA 2/14 T5 EXCEL/ECO	2x14W	22	32	44	50	11	16	22	25
PCA 1/21 T5 EXCEL/ECO	21W	30	50	70	76	15	25	35	38
PCA 2/21 T5 EXCEL/ECO	2x21W	22	32	44	50	11	16	22	25
PCA 1/24 T5 EXCEL/ECO	24W	22	32	44	50	11	16	22	25
PCA 2/24 T5 EXCEL/ECO	2x24W	22	32	46	52	11	16	23	26
PCA 1/28 T5 EXCEL/ECO	28W	32	50	72	80	16	25	36	40
PCA 2/28 T5 EXCEL/ECO	2x28W	16	22	30	34	8	11	15	17
PCA 1/35 T5 EXCEL/ECO	35W	32	50	70	80	16	25	35	40
PCA 2/35 T5 EXCEL/ECO	2x35W	16	22	30	34	8	11	15	17
PCA 1/39 T5 EXCEL/ECO	39W	22	32	44	50	11	16	22	25
PCA 2/39 T5 EXCEL/ECO	2x39W	14	22	28	34	7	11	14	17
PCA 1/54 T5 EXCEL/ECO	54W	22	32	44	50	11	16	22	25
PCA 2/54 T5 EXCEL/ECO	2x54W	14	22	28	34	7	11	14	17
PCA 1/80 T5 EXCEL/ECO	80W	10	20	30	30	5	10	15	15

PCA T5c EXCEL/ECO:

Loading of automatic circuit breakers:									
Automatic circuit		C10	C13	C16	C20	B10	B13	B16	B20
Installation \varnothing		1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²
PCA 1/22 T5c EXCEL/ECO	22W	24	38	54	64	12	19	27	32
PCA 1/40 T5c EXCEL/ECO	50W	24	38	54	64	12	19	27	32
PCA 1/55 T5c EXCEL/ECO	55W	16	24	34	40	8	12	17	20

PCA TCL EXCEL/ECO:

Loading of automatic circuit breakers:									
Automatic circuit		C10	C13	C16	C20	B10	B13	B16	B20
Installation \varnothing		1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²
PCA 2/18 TCL EXCEL/ECO	2x18W	10	12	16	20	5	6	8	10
PCA 2/24 TCL EXCEL/ECO	2x24W	16	20	24	30	8	10	12	15
PCA 1/36 TCL EXCEL/ECO	36W	30	50	70	76	15	25	35	38
PCA 2/36 TCL EXCEL/ECO	2x36W	10	20	30	30	5	10	15	15
PCA 1/40 TCL EXCEL/ECO	40W	30	50	70	76	15	25	35	38
PCA 2/40 TCL EXCEL/ECO	2x40W	10	20	30	30	5	10	15	15
PCA 1/55 TCL EXCEL/ECO	55W	20	30	40	46	10	15	20	23
PCA 2/55 TCL EXCEL/ECO	2x55W	10	14	18	20	5	7	9	10
PCA 1/80 TCL EXCEL/ECO	80W	10	20	30	30	5	10	15	15

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