

**TECHNICAL DATA SHEET  
INSTALLATION CONTACTORS**

**Technical Details**

Product area	Contactors			
Type designation	AUC6-20	AUC6-25	AUC6-40	AUC6-63
Item number	E3279272	E3279273	E3279274	E3279275

**General**

Standards	IEC60947-4-1, IEC61095				
Nominal operating voltage 1-Phase	Ue 1-ph.	230V	230V	230V	230V
Nominal operating voltage 3-Phase	Ue 3-ph.	-	400V	400V	400V
Mechanical endurance (switching cycles)	3000000				
Protection class	IP20				
Permissible ambient temperature	-5°C...+55°C				

**Contact rating - Main**

Rated insulation voltage	Ui	500V			
Frequency	50/60Hz				
Rated impulse withstand voltage	Uimp	4kV			
Rated thermal current	I <sub>th</sub>	20A(25A)	25A	40A	63A
AC1/AC7a Rated operational current	I <sub>e</sub>	20A(25A)	25A	40A	63A
AC1/AC7a Rated operational current AT Ue=230V AC	P <sub>max</sub>	4kW	-	-	-
AC1/AC7a Rated operational current AT Ue=400V AC	P <sub>max</sub>	-	16kW	28kW	40kW
AC3/AC7b Rated operational current AT Ue=230V AC	P <sub>max</sub>	1,2kW	-	-	-
AC3/AC7b Rated operational current AT Ue=400V AC	P <sub>max</sub>	-	4kW	12kW	15kW

**Electrical endurance**

Maximum operating cycles at AC1/AC7a application	150000			
Maximum operating cycles at AC3/AC7b application	150000			
Maximum back-up fuse	25A gL	35A gL	63A gL	80A gL
Operating coil	230V/50Hz			
Coil inrush power (for all voltage ratings)	7,5VA	9,5VA	60VA	60VA
Coil consumption (for all voltage ratings)	2VA	2,5VA	8VA	8VA
Opening delay	15-25ms	10-20ms	20ms	20ms

**Terminals for main & auxiliary contacts**

Terminal capacity-fine stranded wire	1-6mm <sup>2</sup>	1-6mm <sup>2</sup>	1-16mm <sup>2</sup>	1-16mm <sup>2</sup>
Terminal capacity-solid wire	1-10mm <sup>2</sup>	1-10mm <sup>2</sup>	1-25mm <sup>2</sup>	1-25mm <sup>2</sup>
Terminal screw size	M3.5	M3.5	M5	M5
Maximum torque	1,2Nm	1,2Nm	2Nm	2Nm

**LAMP LOAD TABLE**

Lighting Type designation	Lamp load (W)	Maximum number of fittings per phase at 230V/50Hz			
		AUC6-20	AUC6-25	AUC6-40	AUC6-63

**Incandescent lamp**

15	86	110	228	480
25	52	72	180	290
40	32	50	122	195
60	21	33	86	130
75	17	26	69	104
100	13	20	52	78
150	8	13	34	52
200	6	10	26	39
250	5	8	20	31
300	4	6	17	26
500	2	4	10	15
1000	1	2	5	7

**Energy saving lamp**

3	42	52	83	120
5	42	52	83	120
7	42	52	83	120
9	36	45	72	104
11	33	41	65	94
15	30	37	59	85
20	29	36	57	82
23	28	35	56	81

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**Fluorescent lamp conventional supply**

Single fitting - Uncompensated (inductive)	18	22	24	90	140
	24	22	24	90	140
	36	17	20	65	95
	58	14	17	45	70
Single fitting - Compensated (capacitive)	18	7	8	48	73
	24	7	8	48	73
	36	7	8	48	73
	58	4	5	31	47
Double fitting - Series compensated	2x18	30	40	100	150
	2x24	24	31	78	118
	2x36	17	24	65	95
	2x58	10	14	40	60

**Fluorescent lamp - HF electronic**

Single fitting - HF electronic	18	25	31	49	71
	24	18	22	35	50
	36	14	17	27	39
	58	8	10	16	23
Double fitting - HF electronic	2x18	12	15	24	35
	2x24	9	11	17	25
	2x36	7	8	13	19
	2x58	4	5	8	11

**Compact fluorescent lamp**

Conventional supply	5	38	48	77	121
	7	27	34	54	86
	9	21	26	42	67
	11	17	21	35	55
Electronic supply	5	39	49	78	124
	7	39	49	78	124
	9	30	38	60	96
	11	25	31	50	79

**High pressure mercury vapour lamp**

Uncompensated	50	14	18	38	55
	80	10	13	29	42
	125	7	9	20	29
	250	4	5	10	15
	400	2	3	7	10
Parallel compensated	50	4	5	31	47
	80	4	5	27	41
	125	3	4	22	33
	250	1	2	12	18
	400	1	1	9	13

**Metal halogen vapour lamp**

Uncompensated	35	18	22	43	60
	70	10	12	23	32
	150	5	7	12	18
	250	3	4	7	10
	400	3	3	6	9
Parallel compensated	35	5	6	36	50
	70	2	3	18	25
	150	1	1	11	15
	250	–	1	6	9
	400	–	1	6	8

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**Low pressure sodium vapour lamp**

Uncompensated	18	22	27	71	90
	35	7	9	23	30
	55	7	9	23	30
	90	4	5	14	19
	135	3	4	10	13
	180	3	4	10	13
Parallel compensated	18	6	7	44	66
	35	1	1	11	16
	55	1	1	11	16
	90	1		8	12
	135	–	–	4	7
	180	–	–	4	7

**High pressure sodium vapour lamp**

Uncompensated	150	5	6	17	22
	250	3	4	10	13
	400	2	2	6	8
	1000	–	1	3	3
Parallel compensated	150	1	1	11	16
	250	–	1	6	10
	400	–	–	4	6
	1000	–	–	2	3

General remarks:

- 1) In case a 4-pole contactor is used (3 ph. + neutral) the above mentioned quantity of lamps need to be multiplied by 1.5 to obtain the maximum quantity of fittings for the contactor. The total quantity of fittings need to be split equally across the 3 poles.
- 2) In case multiple contactors are installed in one panel it is required to multiply the above mentioned fittings by the applicable load factor according to IEC60439-1.
- 3) It is recommended to install a spacer between each 2 contactors (e.g. contactor, contactor, spacer, contactor, etc.).