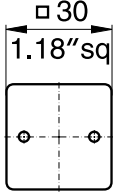
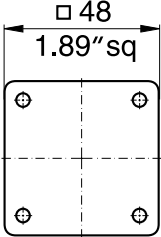
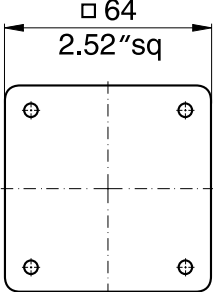
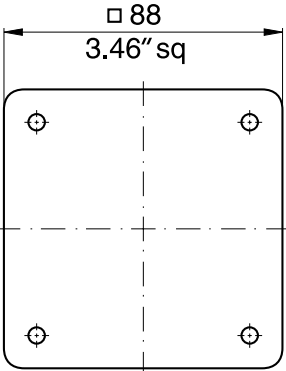
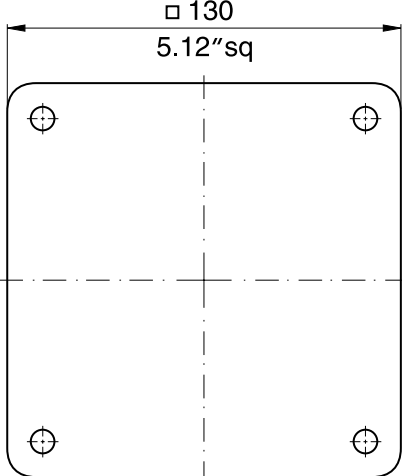


Nominal Ratings

Switch Size	Type	According to IEC 60947-3/VDE 0660 part 107			
		Insulation Voltage ¹ U_i V	Thermal Current I_u/I_{th} A	Motor Rating 3 x 380 V-440 V AC-23 AC-3 kW kW	
S00 	CA4	440	10	3	2,2
	CA4-1	440	10	3	2,2
	CAD4-1	440	5	-	-
S0 	CA10	690	20	7,5	5,5
	CA11	690	20	7,5	5,5
	CA20	690	25	11	7,5
	CA25	690	32	15	11
	CAD11	600	6	-	-
	CAD12	600	6	-	-
S1 	CA10B	690	20	7,5	5,5
	CA11B	690	20	7,5	5,5
	CA20B	690	25	11	7,5
	CA25B	690	32	15	11
	C26	690	32	15	11
	C32	690	50	22	15
	C42	690	63	30	18,5
	CA40	690	40	18,5	15
	CA50	690	50	22	18,5
	CA63	690	63	30	18,5
S2 	C43	690	63	30	18,5
	C80	690	115	45	30
	C125	690	150	75	37
	C200-4	690	200	75	37
	L350	690	350	90	37
	L351	690	350	90	37
	L630	690	630 ²	90	37
	L631	690	630 ²	90	37
	L1000	690	1000 ²	90	37
S3 	C315	690	315	132	55
	C316³	1000	315	132	55
	L400	690	500	132	55
	L600	690	800 ²	132	55
	L800	690	1100 ²	132	55
	L1200	690	1450 ²	132	55
	L1600	690	1900 ²	132	55
	L2000	690	2400 ²	132	55

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




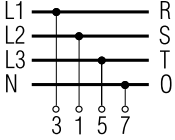






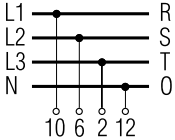






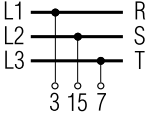
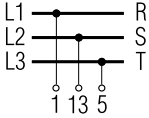



For further technical details, refer to pages 44-47.
To furnish with gold contacts and quick connects see page 6.

¹Valid for lines with grounded common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems on request. ²Ambient temperature 35 °C max. ³Additional switch functions on request.

Function	Escutch. Plate	Type/Handle				Code	Stages	Connection Diagram
		CA4	CA10- CAD4-1	CA10- CA25	CA10B- CAD.. CA25B			

Voltmeter Switches with „OFF“

[Dimensions p.56](#)

3 phase to neutral	 F779					WAA005	2	
3 phase to phase and 3 phase to neutral	 F782					A007	3	
2 separate 3 phase with center „OFF“	 F786					WAA008	4	
3 phase and 1 phase to neutral	 F789					WAA010	3	

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Base Mount	Code	CA4 CA4-1 CAD4-1	CAD.. CA10- CA25
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DIN Rail Mount



Snap-on for DIN Rail EN 60715 with face plate for 45 mm standard knock-out.

VE2



Snap-on for DIN Rail EN 60715. With face plate for 45 mm standard knock-out. The handle and plate are adjustable in height.

VE21



CAD..
CA10-
CA20

VE21V

CA25

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Selection Data	CA4 CA10 CA11 CA20 CA25 C42 C315
	CA4-1 CA10B CA11B CA20B CA25B C26 C32 C43 CA40 CA50 CA63 C80 C125 C200-4 C316

Rated Insulation Voltage U_i	IEC 60947-3, EN 60947-3 ¹ VDE 0660 part 107 ¹	V	440	690	690	690	690	690	690	690	690	690	690	690	690	690	690	1000
	SEV ⁴	V	380	660	660	660	690	660	660	660	690	690	690	660	660	-	660	
	UL/Canada	V	300	300	600	600	300	600	600	600	600	600	600	600	600	-	600	
	CEE/NEMKO	V	400/380	380	400	400	-	400	400	400	-	-	-	400	-	-	-	
	min. voltage																	on request
Rated Impulse Withstand Voltage U_{imp}		kV	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6/8
Rated Thermal Current I_U/I_{th}	IEC 60947-3, EN 60947-3 VDE 0660 part 107	A	10	20	20	25	32	32	50	63	40	50	63	115	150	200	315	
	SEV ³ 380 V	A	10	16	16	25	32	32	40	63	40	50	63	100	150	-	315	
	660 V	A	-	12	12	25	32	32	40	63	40	50	63	-	-	-	315	
	UL/Canada	A	10	20	20	30	30	40	50	65	45	55	65	100	150	-	240	
Rated Operational Current I_e	AC-21A Switching of resistive loads, including moderate overloads	IEC 60947-3, EN 60947-3 VDE 0660 690 V part 107	A	10	20	20	25	32	32	40	63	40	50	63	100	150	200	315
	AC-1 Resistive or low inductive loads	SEV ⁴ 380 V 660 V	A A	10 -	16 12	16 12	25 20	32 32	40 40	63 63	40 40	50 50	63 63	100 -	150 -	- -	315 315	
AC-22A Switching of combined resistive or low inductive loads including moderate overloads	IEC 60947-3, EN 60947-3 VDE 0660 220 V-500 V part 107	A A	10 -	20 20	20 20	25 25	32 32	32 40	40 40	63 63	40 40	50 50	63 63	100 100	150 125	150 125	315 125	
	AC-15 Switching of control devices, contactors, valves etc.	IEC 60947-5-1, EN 60947-5-1 VDE 0660 220 V-240 V part 200 380 V-440 V	A A	2,5 1,5	6 4	6 4	8 5	12 6	14 6	16 7	- -	14 6	16 7	16 7	- -	- -	- -	
Pilot Duty	UL/Canada ³ Heavy	VAC	A300	A300	A600	A600	A300	A600	A600	A600	A600	A600	A600	-	-	-	A600	
Ampere Rating Resistive or low inductive loads	UL/Canada ³	A	10	20	20	30	30	40	50	65	45	55	60	100	150	-	240	
Resistive load/motor load	CEE NEMKO	A	4/2	10/6	10/6	16/10	-	25/1032/10	40/10	-	-	-	63/10	-	-	-	-	
		A	6/4 ²	10/6	-	20/10	-	-	-	-	-	-	-	-	-	-	-	-
Breaking capacity	220 V-240 V	A	50	150	150	200	280	280	380	550	290	330	440	860	1100	1100	2000	
	380 V-440 V	A	50	150	150	200	250	250	360	550	290	330	440	860	1100	1100	2000	
	660 V-690 V	A	-	80	80	125	150	150	270	365	170	200	260	400	490	490	340	
Power loss per contact at I_U		W	0,4/0,9	0,9	0,9	0,9	0,7	1,3	1,3	1,7	1	1,8	2,8	5,8	3,8	6,7	17	
Resistance to vibration			min. 4 g, 2-100 Hz, 1,6 mm									on request						
Resistance to shock			min. 5 g, 6 ms									min. 5 g, 30 ms						
Short Circuit Protection	Max. fuse size (gG-characteristic)	A	10	25	25	35	35	50	63	80	50	63	63	125	200	200	315	
	Rated short-time withstand current (1s-current)	A	60	140	140	280	480	350	800	1000	950	950	950	1300	2000	2000	4200	
Min. Ambient Temperature of Stages			-25 °C (valid only without optional extra, C315/C316 on request)															
Max. Ambient Temperature of Stages ^{5,7} open at 100 % I_U/I_{th} enclosed at 100 % I_{the}			55 °C during 24 hours with peaks up to 60 °C															
			35 °C during 24 hours with peaks up to 40 °C															

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44 ¹Valid for lines with grounded common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems on request. ²Valid for CA4 only. ³International Standards and Approvals, refer to page 43. ⁴For electromagnetic optional extras see additional data in Catalog 101. ⁵Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible).

Selection Data	CA4 CA10 CA11 CA20 CA25 C42 C315
	CA4-1 CA10B CA11B CA20B CA25B C26 C32 C43 CA40 CA50 CA63 C80 C125 C200-4 C316

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Rated Utilization Category		IEC 60947-3, EN 60947-3 VDE 0660 part 107																		
AC-2	Slip ring motor starting, reversing and plugging, star-delta starting CA4-CA50	3 phase	220 V-240 V	kW	2,5	4	4	5,5	7,5	8	10	18,5	10	11	18,5	30	37	37	55	
		3 pole	380 V-440 V		4,5	7,5	7,5	11	15	15	18,5	30	18,5	22	30	40	55	55	55	90
			500 V		-	10	10	15	18,5	18,5	22	40	22	30	40	55	75	75	110	
			660 V-690 V		-	10	10	13	15	15	22	37	22	30	37	55	55	55	55	
AC-3	Direct-on-line starting, star-delta starting CA63-C315	3 phase	220 V-240 V	kW	1,5	3	3	4	5,5	5,5	7,5	11	7,5	11	11	15	22	22	37	
		3 pole	380 V-440 V		2,2	5,5	5,5	7,5	11	11	15	18,5	15	18,5	18,5	30	37	37	55	
			500 V		-	5,5	5,5	7,5	11	11	15	18,5	15	18,5	18,5	30	37	37	55	
			660 V-690 V		-	5,5	5,5	7,5	11	11	15	18,5	15	18,5	22	30	30	30	37	
		1 phase	110 V-120 V	kW	0,3	0,6	0,6	1,5	2,2	2,2	2,5	3	2,5	3	3	3,7	5,5	5,5	11	
		2 pole	220 V-240 V		0,55	2,2	2,2	3	4	4	5,5	6	5,5	6	6	7,5	11	11	22	
			380 V-440 V		0,75	3	3	3,7	5,5	5,5	7,5	11	7,5	11	11	13	18,5	18,5	30	
AC-4	Direct-on-line starting, reversing, plugging and inching	3 phase	220 V-240 V	kW	0,37	0,55	0,55	1,5	2,5	2,7	3,7	5,5	3,7	4	5,5	6	10	10	15	
		3 pole	380 V-440 V		0,55	1,5	1,5	3	5,5	5,5	6	7,5	6	7	7,5	11	15	15	25	
			500 V		-	1,5	1,5	3	5,5	5,5	6	7,5	6	7	7,5	11	15	15	25	
			660 V-690 V		-	1,5	1,5	3	5,5	5,5	6	7,5	6	7,5	9	11	15	15	22	
		1 phase	110 V-120 V	kW	0,15	0,3	0,3	0,45	0,75	0,75	1,1	1,2	1,1	1,2	1,2	1,5	2,2	2,2	4	
		2 pole	220 V-240 V		0,25	0,75	0,75	1,1	1,5	1,5	2,2	2,4	2,2	2,4	2,4	3	4	4	7,5	
			380 V-440 V		0,5	1,5	1,5	2,2	3	3	3,7	4	3,7	4	4	5,5	7,5	7,5	11	
AC-23A	Frequent switching of motors or other high inductive loads	3 phase	220 V-240 V	kW	1,8	3,7	3,7	5,5	7,5	7,5	11	15	7,5	11	15	30	37	37	75	
		3 pole	380 V-440 V		3	7,5	7,5	11	15	15	22	30	18,5	22	30	45	75	75	132	
			500 V		-	7,5	7,5	11	15	15	30	45	18,5	22	30	55	90	90	132	
			660 V-690 V		-	7,5	7,5	11	15	15	22	40	18,5	22	30	45	55	55	37	
		1 phase	110 V-120 V	kW	0,37	0,75	0,75	1,5	2,2	2,2	2,5	4	2,2	2,5	4	5,5	11	11	18,5	
		2 pole	220 V-240 V		0,75	2,5	2,5	3	4	4	5,5	10	4	5,5	10	15	22	22	37	
			380 V-440 V		1,1	3,7	3,7	5,5	7,5	7,5	11	18,5	7,5	11	18,5	22	37	37	55	
Ratings		UL/Canada																		
	Standard motor load DOL-Rating (similar AC-3)	3 phase	110 V-120 V	HP	0,75	1,5	1,5	3	5	5	7,5	7,5	7,5	7,5	7,5	10	15	-	30	
		3 pole	220 V-240 V		1	3	3	7,5	10	10	15	15	15	15	15	20	25	-	75	
			440 V-480 V		-	-	5	10	-	20	25	25	25	25	30	30	40	-	75	
			550 V-600 V		-	-	5	10	-	25	30	30	25	30	30	40	50	-	60	
		1 phase	110 V-120 V	HP	0,33	0,5	0,5	1,5	2	2	3	3	3	3	3	5	7,5	-	15	
		2 pole	220 V-240 V		0,75	1	1	3	5	5	7,5	7,5	7,5	7,5	10	15	-	40		
			277 V		0,75	2	2	3	5	5	7,5	7,5	7,5	7,5	10	10	15	-	40	
			440 V-480 V		-	-	2	5	-	10	15	15	15	15	15	20	25	-	50	
			550 V-600 V		-	-	2	5	-	15	20	20	15	20	20	25	30	-	50	
	Heavy motor load Reversing-Rating (similar AC-4)	3 phase	110 V-120 V	HP	-	0,5	0,5	1	2	2	3	5	-	-	-	7,5	10	-	15	
		3 pole	220 V-240 V		-	1	1	2	3	3	5	7,5	-	-	-	15	20	-	30	
			440 V-600 V		-	-	3	5	-	10	15	20	-	-	-	25	30	-	40	
					1 phase	110 V-120 V	HP	-	0,17	0,17	0,33	1,5	1,5	1,5	2	-	-	-	3	5
		2 pole	220 V-240 V		-	0,5	0,5	0,75	3	3	3	5	-	-	-	7,5	10	-	15	
			277 V		-	0,6	0,6	1	3	3	3	5	-	-	-	7,5	10	-	15	