

Contactors for DC-Switching for PV-installations, as remote controlled fire protection defeat devices



Contactor for DC-switching

Inverter

Fire brigade
Emergency-Stop-
Button

In most Photovoltaic-installations, the switch disconnectors according to IEC 60364-7-712 are integrated into DC/AC-inverters.

The power cables between solarpanels and inverters are continuously under voltage.

According to ÖVE-R11-1: 2013, Photovoltaic-installations must have a fire protection defeat device.

For this purpose, BENEDICT contactors for DC-switching, used as fire protection defeat devices, can switch off the Photovoltaic-installation with a remote controlled fire brigade Emergency-Stopbutton.



Technical Data

Type			K3DC- 20..	K3DC- 48..	K3DC- 80..	K3DC- 100..	K3PV- 30..	K3PV- 60..	K3PV- 80..	K3PV- 100..	K3PV- 150..	K3PV- 200..	K3PV- 240..	K3PV- 300..	K3PV- 400..	K3PV- 450..
Ratings																
pole in series			3	3	3	3	6	6	4	4	3	3	3	3	3	3
DC1 600V dc	I _e A	20	50	80	100	30	60	80	100	150	200	240	300	400	450	
DC1 700V dc	I _e A	-	-	80	-	30	60	80	100	150	200	240	300	400	450	
DC1 1000V dc	I _e A	-	-	60	-	30	60	80	100	150	200	240	300	400	450	
DC3/5 310V dc	I _e A	-	-	40	60	15	24	40	90	125	170	200	230	270	300	
DC3/5 460V dc	I _e A	-	-	-	-	15	24	40	40	125	170	200	230	270	300	
DC3/5 600V dc	I _e A	-	-	-	-	-	-	-	-	50	60	75	120	160	200	
Rated insulated voltage	V=	600		1000	600	1000										
Rated impulse withstand U _{imp}	kW	8														
Making and breaking capacity (4×I _e at DC3/5) acc. to IEC60947-4-1																
at 310V dc	A	-	-	-	-	60	96	-	360	500	680	800	920	1080	1200	
at 460V dc	A	-	-	-	-	60	96	-	120	500	680	800	920	1080	1200	
at 600V dc	A	-	-	-	-	-	-	-	-	200	240	300	480	540	600	
Main pole resistance	mΩ	1,8	1,8	1,2	1	1,8	1,8	1,2	1	0,5	0,5	0,35	0,15	0,15	0,15	
Mechanical life	10 ⁶	10				10				10				8		
Protection degree		IP20				IP20				IP00, IP20 with terminal lug				IP00, IP20 with terminal lug		
Weight	kg	0,45		1,17	1,8	0,9		1,35	2,3	5				7,5		
Cable cross-sections	mm ²	2 x 1,5–10		2,5–35 + 1–4	4–35 + 4–50	2 x 1,5–10		2,5–35 + 4–50	4–35 + 1–4	2 x 16–120				2 x 150		
Tightening torque	Nm	2,3–2,7		5–6	8–9,6	2,3–2,7		5–6	8–9,6	17–20				35–42		
Mounting		DIN-rail			Screws	DIN-rail			Screws							
Operation range of coils	U _c	0,85–1,1														
Drop out voltage ac	U _c	0,2–0,75														
Drop out voltage dc	U _c	0,1–0,6														
Ambient temperature		-25 ÷ +70°C > 40°C derating of 1%/°C														

Technical data are subject to change without notice

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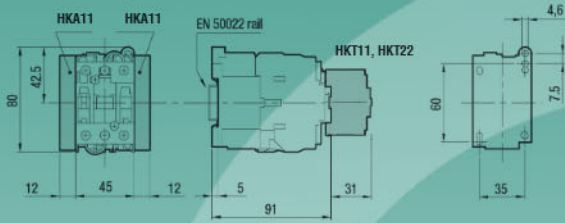
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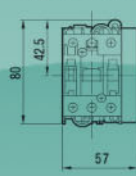


Dimensions (mm)

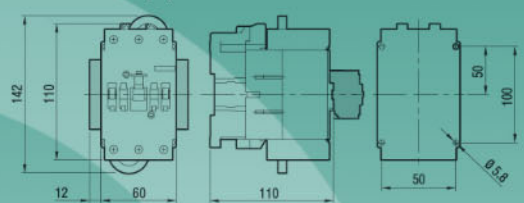
K3DC-20A00, K3DC-48A00



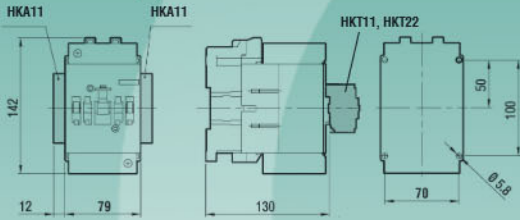
K3DC-20A10=, K3DC-48A10=



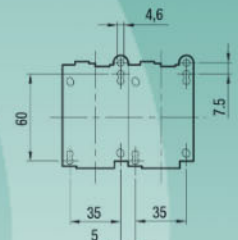
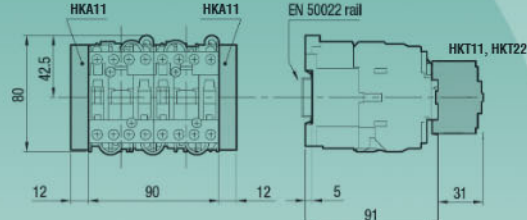
K3DC-80A00(=)



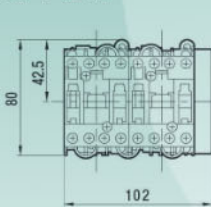
K3DC-100A00(=)



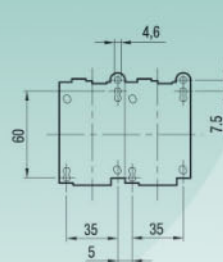
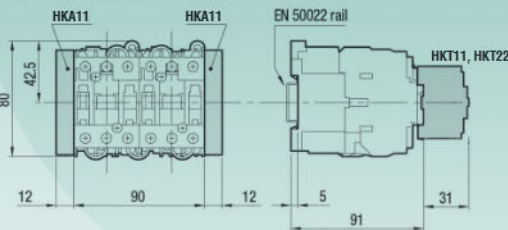
K3PV-12A00



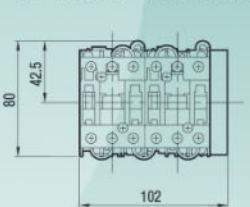
K3PV-12A10=



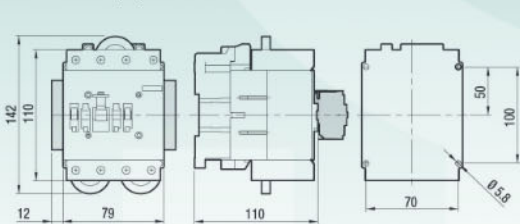
K3PV-30A00, K3PV-60A00



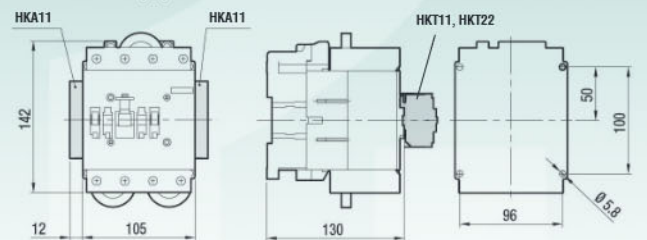
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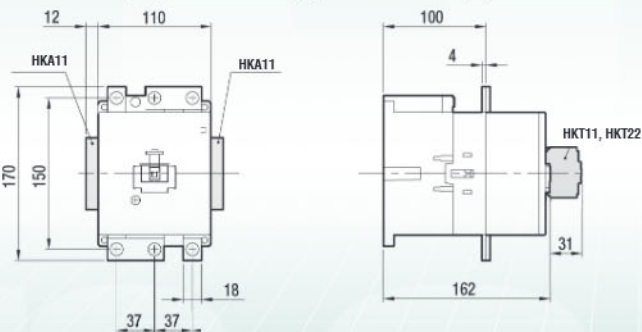
K3PV-80A00(=)



K3PV-100A00(=)



K3PV-150A00(=), K3PV-200A00(=), K3PV-240A00(=)



K3PV-300A00(=), K3PV-400A00(=), K3PV-450A00(=)

