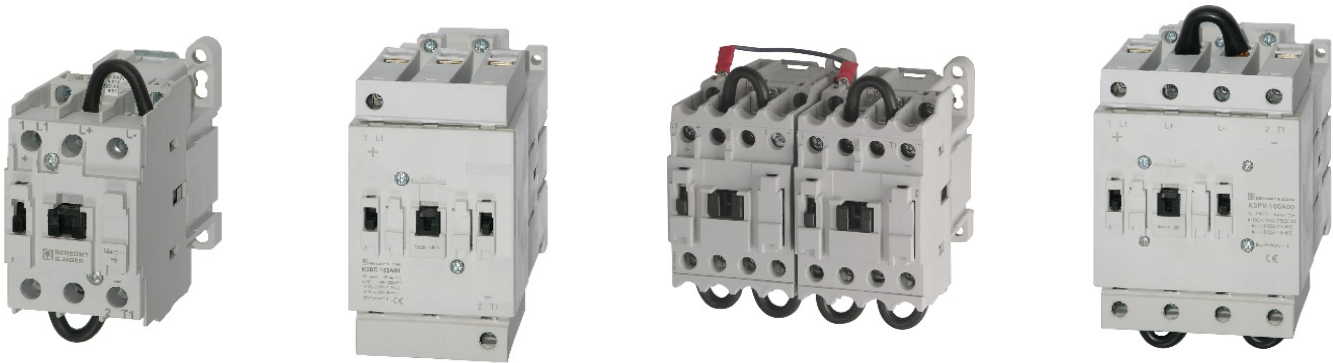


Contactors for DC Switching - Including Photovoltaic Series K3DC.. & K3PV.. (AC & DC Operated)



Data according to UL60947-4-1



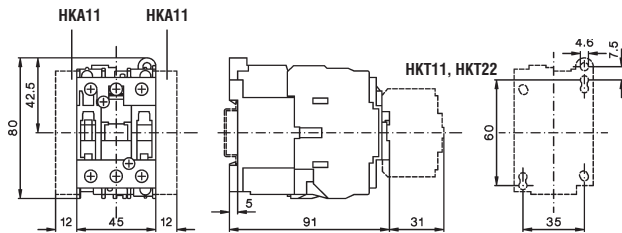
Type	LISTED	K3DC-20..	K3DC-48..	K3DC-60..	K3DC-80..	K3PV-80..	K3PV-150..	K3PV-200..	K3PV-240..	K3PV-300..	K3PV-400..	K3P - 450..
General Use I _e [A]	600V DC	20	40	60	80	80	130	160	200	300	330	360
	1000V DC	-	-	30	60	80	130	160	200	300	330	360
Motor Control I _e [A]	220-240V DC	12	20	38	55	72	89	106	140	173	206	255
	500V DC	12	16	34	51	67	83	99	123	164	205	246
	550-600V DC	12	16	38	46	61	90	111	148	185	222	294

1) IP20 ... terminal lug.

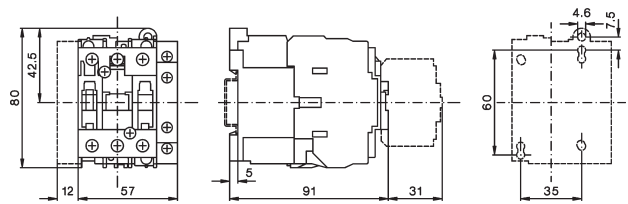
2) > 40° ... 1% / C° de-rating (eg. at 60°C 20% de-rating)

Dimensions

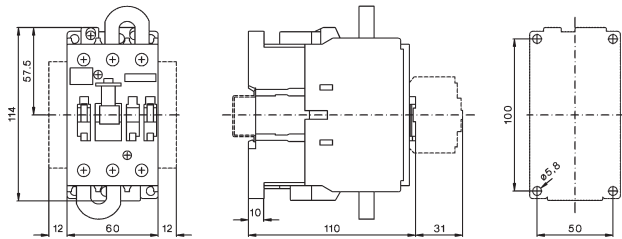
K3DC-20A00, K3DC-48A00



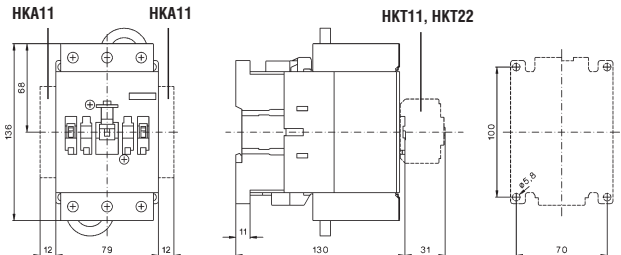
K3DC-20A10=, K3DC-48A10=



K3DC-60A00(=), K3DC-80A00(=)



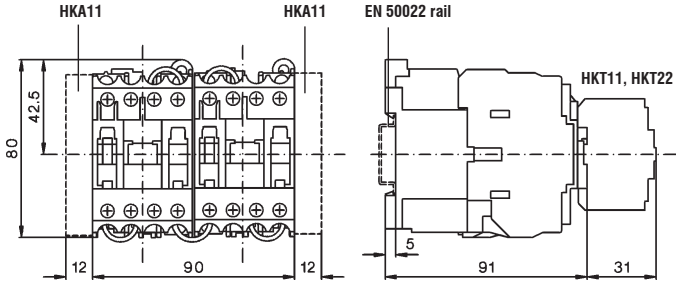
K3DC-100A00(=)



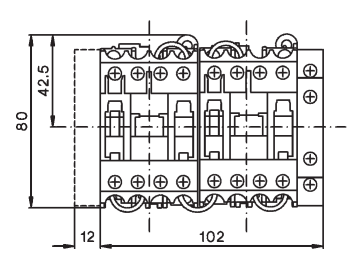
Contactors for DC Switching - Including Photovoltaic

Series K3DC.. & K3PV.. (AC & DC Operated)

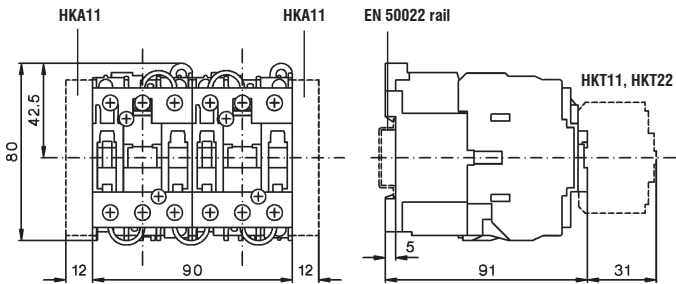
K3PV-12A00



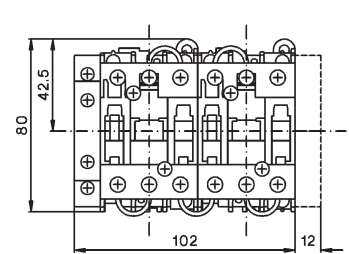
K3PV-12A10=



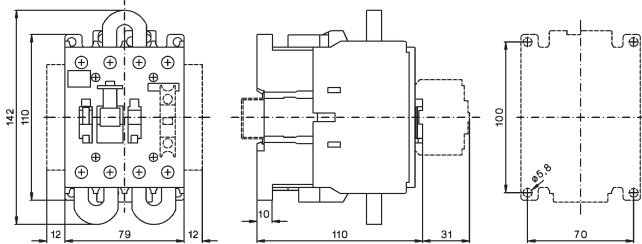
K3PV-30A00, K3PV-60A00



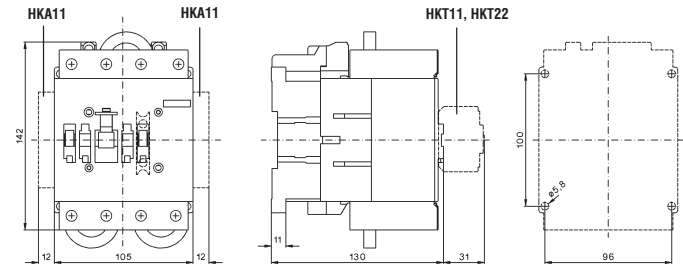
K3PV-30A10=, K3PV-60A10=



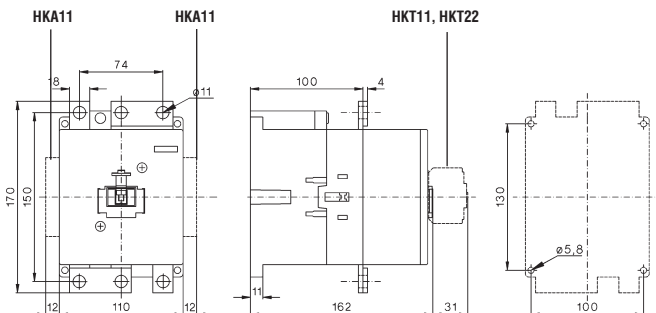
K3PV-80A00(=)



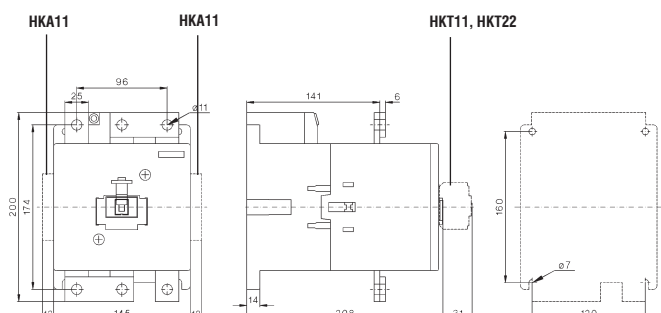
K3PV-100A00(=)



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
















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



Contactors for DC Switching - Including Photovoltaic

Technical Data according to IEC 60947-4-1, VDE 0660

Type		K3DC-20..	K3DC-48..	K3DC-60..	K3DC-80..	K3DC-100..	K3PV-12..	K3PV-30..	K3PV-60..	K3PV-80..	K3PV-100..	K3PV-150..	K3PV-200..	K3PV-240..	K3PV-300..	K3PV-400..	K3PV-450..		
Rated insulation voltage U_{imp}	V= kV	600 8	600 8	1000 8	1000 8	600 8	1200 8	1000 8	1000 8	1000 8	1000 8	1000 8	1000 8	1000 8	1000 8	1000 8	1000 8		
poles in series		3	3	3	3	3	8	6	6	4	4	3	3	3	3	3	3		
DC1	600V dc I_e A	20	50	60	80	100	12	30	60	80	100	150	200	240	300	400	450		
DC1	1000V dc I_e A	-	-	30	60	-	12	30	60	80	100	150	200	240	300	400	450		
DC1	1200V dc I_e A	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-		
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		
Main pole resistance	mΩ	1,8	1,8	1,4	1,2	1	2,2	1,8	1,8	1,2	1	0,5	0,5	0,35	0,15	0,15	0,15		
poles in series resistance	mΩ	5,4	5,4	4,2	3,6	3	17,6	10,8	10,8	4,8	4	1,5	1,5	1,1	0,5	0,5	0,5		
Mechanical life	10 ⁶	10										10			8				
Protection degree		IP20										IP00 / IP20 ¹⁾			IP00 / IP20 ¹⁾				
Main poles																			
Cable cross sections	mm ²	2 x 1,5 - 10		2,5 - 35		4 - 35 +4-50		2x 1,5-2,5		2 x 1,5 - 10		2,5-35		4 - 35 +4 - 50		Busbar 18 x 4 Screw M8		Busbar 25 x 6 Screw M10	
Tightening torque	Nm	2,3 - 2,7		5 - 6		8 - 9,6		1,4 - 1,6		2,3 - 2,7		5 - 6		8 - 9,6		17 - 20		35 - 42	
Mounting		DIN-rail or screw				screws		DIN-rail or screws				Screws		Screws		Screws			
Operating range of coils	Uc	0,85 - 1,1																	
Power consumption of coils																			
AC	inrush VA	90		250		180		250		350		360							
	sealed VA/W	9 / 3		18 / 4		18 / 6		18 / 4		5 / 5		6 / 6							
DC	inrush W	120		230		230		230		350		360							
	sealed W	2		4		5		4		5		6							
Switching time																			
AC	make time ms	10 - 25		12 - 30		12 - 30		10 - 25		12 - 30		15 - 50		30 - 60		40 - 60			
	release time ms	6 - 18		6 - 15		6 - 15		6 - 18		6 - 15		30 - 80		30 - 80		40 - 60			
DC	make time ms	15 - 25		15 - 25		20 - 30		15 - 25		15 - 25		15 - 50		30 - 60		40 - 60			
	release time ms	40 - 70		10 - 25		10 - 25		40 - 70		10 - 25		30 - 80		30 - 80		40 - 60			
Maximum ambient temperature																			
Operation °C		-40 to +40 (+70) ²⁾																	
Storage °C		-40 to +70																	
Short circuit protection for contactors																			
Coordination-type „1“																			
max. fuse size gPV																			
600VDC A		63	80	-	-	160	-	-	-	-	-	160	200	250	-	-	-		
1000VDC A		-	-	-	-	-	12	63	100	-	160	160	200	250	315	400	500		
Coordination-type „2“																			
max. fuse size gPV																			
600VDC A		50	63	80	100	125	-	-	-	100	-	-	-	-	-	-	-		
1000VDC A		-	-	80	100	-	-	50	80	100	125	-	-	-	-	-	-		
Short-circuit current	kA	3	3	3	3	5	3	3	3	5	5	10	10	10	10	10	10		

1) IP20 . terminal lug.

2) > 40° ... 1% / C° de-rating (eg. at 60°C 20% de-rating)