



Sample image

Datasheet

Article number: 70004705

Designation: CA11.A221.PF1

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
690 AC / DC						
Rated uninterrupted current Iu/Ith						
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements			
20	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C			
Rated operational current Ie						
Utilization category		Voltage (V)		Current (A)		
AC-15		220 - 240		6		
AC-15		380 - 440		4		
Rated operational power						
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)		
AC-3	220 - 240	3	3	3		
AC-3	380 - 440	3	3	5,50		
AC-3	660 - 690	3	3	5,50		
AC-3	220 - 240	1	2	2,20		
AC-3	380 - 440	1	2	3		
AC-23A	220 - 240	3	3	3,70		
AC-23A	380 - 440	3	3	7,50		
AC-23A	660 - 690	3	3	7,50		
AC-23A	220 - 240	1	2	2,50		
AC-23A	380 - 440	1	2	3,70		
Max Fuse Rating IEC						
Fuse characteristic		No. of Fuses		Current (A)		
gG		1		25		
UL60947-4-1 , UL508						
Nominal Voltage						
Voltage (V) AC / DC						
600 AC						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
600 AC						
Rated thermal current						
Current (A)		Ambient temperature (°C) Additional Text				
20		0 - 40 --				
Horsepower rating						
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
Reversing		110 - 120	1	2	0,17	40
Reversing		220 - 240	1	2	0,50	40
Reversing		277 - 277	1	2	0,60	40
Reversing		415 - 415	1	2	1	40
Reversing		440 - 480	1	2	1,50	40
Reversing		550 - 600	1	2	1,50	40
Reversing		110 - 120	3	3	0,50	40
Reversing		220 - 240	3	3	1	40
Reversing		415 - 415	3	3	2	40
Reversing		440 - 480	3	3	3	40
Reversing		550 - 600	3	3	3	40
DOL		110 - 120	1	2	0,50	40
DOL		220 - 240	1	2	1	40
DOL		277 - 277	1	2	2	40
DOL		440 - 480	1	2	2	40
DOL		550 - 600	1	2	2	40
DOL		110 - 120	3	3	1,50	40
DOL		220 - 240	3	3	3	40
DOL		415 - 415	3	3	5	40
DOL		440 - 480	3	3	5	40
DOL		550 - 600	3	3	5	40

Pilot duty rating code									
Duty Code									
A600									
SCCR / Max. fuse rating									
Conditions of acceptability									
These devices are suitable for use on circuits capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. Manual Motor Controllers when intended for use as a motor disconnecter are suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by 30A Class J time delay fuses.									
Temp. rating of wire									
Temperature rating (°C)			Current (A) Text						
60 - 75			– Use copper wire only						
Connecting instructions									
Markings									
When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.									
General Use									
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series				
AC	600	20	1	2	1				
AC	600	20	3	3	1				
CSA									
Nominal Voltage									
				Voltage (V) AC / DC					
				600 AC					
Rated insulation voltage Ui									
				Voltage (V) AC / DC					
				600 AC					
Rated thermal current									
Current (A)			Ambient temperature (°C) Additional Text						
20			0 - 40 –						
Horsepower rating									
Across-the-Line Motor Starting				Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]	
DOL				110 - 120	1	2	0,50	40	
DOL				220 - 240	1	2	1	40	
DOL				277 - 277	1	2	2	40	
DOL				415 - 415	1	2	2	40	
DOL				440 - 480	1	2	2	40	
DOL				550 - 600	1	2	2	40	
DOL				110 - 120	3	3	1,50	40	
DOL				220 - 240	3	3	3	40	
DOL				415 - 415	3	3	5	40	
DOL				440 - 480	3	3	5	40	
DOL				550 - 600	3	3	5	40	
Pilot duty rating code									
Duty Code									
A600									
Temp. rating of wire									
Temperature rating (°C)			Current (A) Text						
75			– only						
General Use									
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series				
AC	600	20	1	1	1				
GENERAL TECHNICAL INFORMATION									
Tightening torque of screws									
				tightening torque (Nm)		tightening torque (lb-in)			
				0,60		5			
Stripping length									
				Length (mm) –					
				8 STRIPPINGLENGTH					
Size of conductor									
composition of conductor		Min. / Max. value		No. of conductor per terminal		Cross section (mm²) or (AWG/kcmil)		Material of the wire	
solid wire		Min.		1		0.5mm²		Copper	
solid wire		Min.		2		0.5mm²		Copper	
flexible wire		Min.		1		0.75mm²		Copper	
flexible wire		Min.		2		0.75mm²		Copper	
flexible wire		Max.		2		2.5mm²		Copper	
flexible wire		Max.		2		AWG 14		Copper	
Single-core or stranded wire		Max.		2		AWG 12		Copper	
Single-core or stranded wire		Max.		2		2.5mm²		Copper	
flexible wire with ferrule according to DIN 46228		Min.		1		0.5mm²		Copper	
flexible wire with ferrule according to DIN 46228		Max.		2		2.5mm²		Copper	
flexible wire with ferrule according to DIN 46228		Min.		2		0.5mm²		Copper	
Approbations									
Specification									
Marking									
EAC									
CE marking									

Approbations	
Specification	Marking

UK Directives

UK
CA

CSA C.22.2 No.14

CSA

Recommended screw driver

Type of screw driver	Value
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x4

General Information

Text

- Do not lubricate or treat contacts.
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.
- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.

Waste Electrical & Electronic Equipment (WEEE)

Picture name	Description
	Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at www.krausnaimer.com

Proposition 65

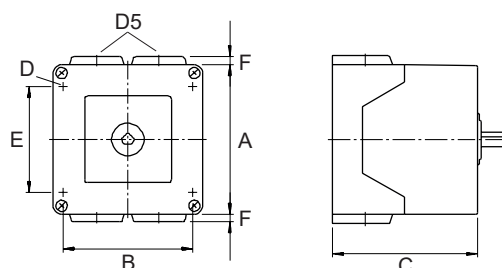
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

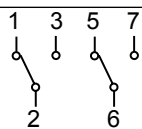
Mounting-PF1



IP - Code front side	IP65
Stages	1,00 - 2,00
A	□ 82,00 mm
B	H 68,00 mm
C	H 64,70 mm
D	Ø 4,40 mm
D5	Ø 4,00 x M20
E	H 52,00 mm
F	H 5,00 mm

Wiring diagram

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Switch program

CA11.A221.PF1



Kraus & Naimer

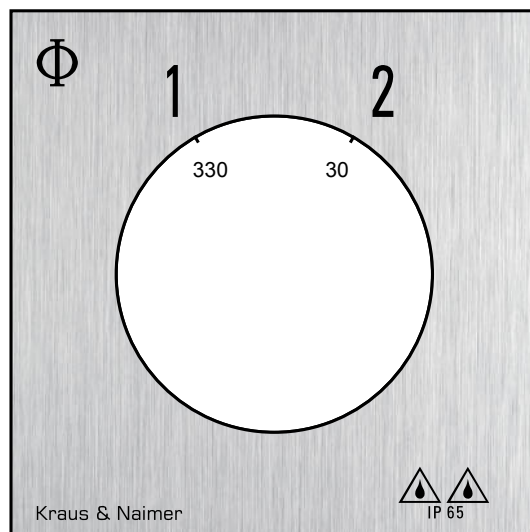
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Face Plate														
														
		1	3	5	7	9	11	13	15	17	19	21	23	
Switching Angle 60 Total switching Angle 60		2	4	6	8	10	12	14	16	18	20	22	24	
1	330													
	345													
	0													
	15													
	2	30												
		45												
		60												
		75												
		90												
		105												
		120												
		135												
		150												
		165												
		180												
		195												
210														
225														
240														
255														
270														
285														
300														
315														

Version: 108

Face plate

S1.F072/A10.PFL



HANDLES

Designation: S1B.G257

Handle colour: "7" electro grey

