



Sample image

Datasheet

Article number: 70002518

Designation: CA10.A221.PN1

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

Rated insulation voltage Ui				
Voltage (V) AC / DC				
690 AC / DC				
Rated impulse withstand voltage Uimp				
Voltage (kV)	Overvoltage category	Pollution degree	Supply system	Function
4	III	3	Valid for lines with grounded common neutral termination	Switch disconnecter
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						
300 AC / DC						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
300 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		110 - 120	3	3	0,50	40
Reversing		220 - 240	3	3	1	40
DOL		110 - 120	1	2	0,50	40
DOL		220 - 240	1	2	1	40
DOL		277 - 277	1	2	2	40
DOL		110 - 120	3	3	1,50	40
DOL		220 - 240	3	3	3	40
Pilot duty rating code						
Duty Code						
A300						
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	300	20	1	2	1	
AC	300	20	3	3	1	
CSA						
Nominal Voltage						
				Voltage (V) AC / DC		
				300 AC		
Rated insulation voltage Ui						
				Voltage (V) AC / DC		
				300 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
				110 - 120	1	2
DOL				220 - 240	1	2
DOL				277 - 277	1	2
DOL				110 - 120	3	3
DOL				220 - 240	3	3
Pilot duty rating code						
Duty Code						
A300						
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	300	20	1	1	1	
GENERAL TECHNICAL INFORMATION						
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
Stripping length						
				Length (mm) --		
						
Recommended screw driver						
Type of screw driver				Value		
Cross Screwdriver				PH1		
Slot screwdriver according to DIN 5264				0,8x4		
Tightening torque of screws						
			tightening torque (Nm)		tightening torque (lb-in)	
			0,60		5	
Approbations						
Specification						
Marking						
EAC						
CE marking						
UK Directives						
CSA C.22.2 No.14						
GB/T14048.3						
General Information						
Text						
- Do not lubricate or treat contacts.						

General Information

Text

- 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

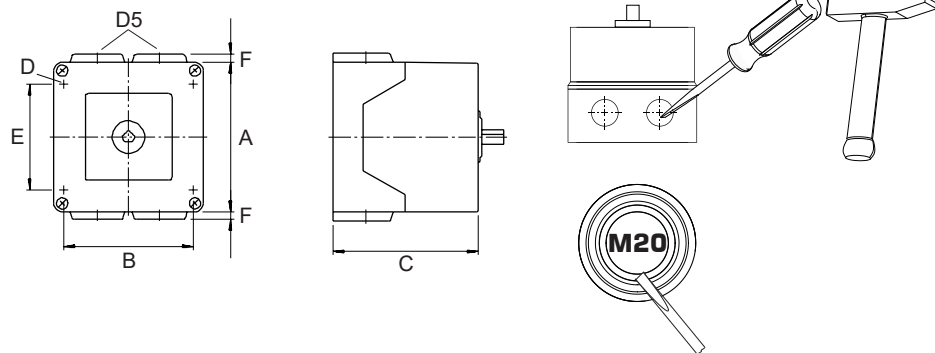
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

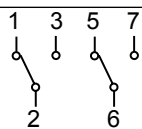
Mounting-PN1



IP - Code front side		IP42
Stages		2,00 - 2,00
A	□	64,00 mm
B	H	50,00 mm
C	H	45,80 mm
D	Ø	4,40 mm
D5	Ø	4,00 x M20
E	H	36,00 mm
F	H	4,00 mm

Wiring diagram

CA10.A221.PN1



Switch program

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Kraus & Naimer

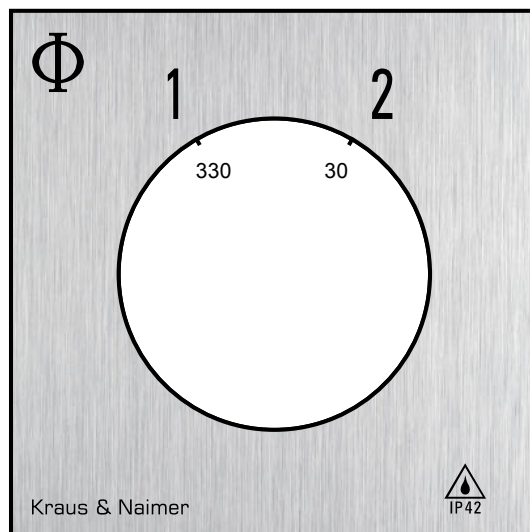
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Face Plate													
													
		1	3	5	7	9	11	13	15	17	19	21	23
Switching Angle 60 Total switching Angle 60		2	4	6	8	10	12	14	16	18	20	22	24
1		330	■		■								
		345											
		0											
		15											
2		30	■		■								
		45								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

Version: 108

Face plate

S0.F072/A10.PNL



HANDLES

Designation: S0C.G257

Handle colour: "7" electro grey

