



Sample image

Datasheet

Article number: 70002446
Designation: CA10.A220.EF
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						
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						
UK Directives						
CSA C.22.2 No.14						
GB/T14048.3						
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.						

General Information

Text

- 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



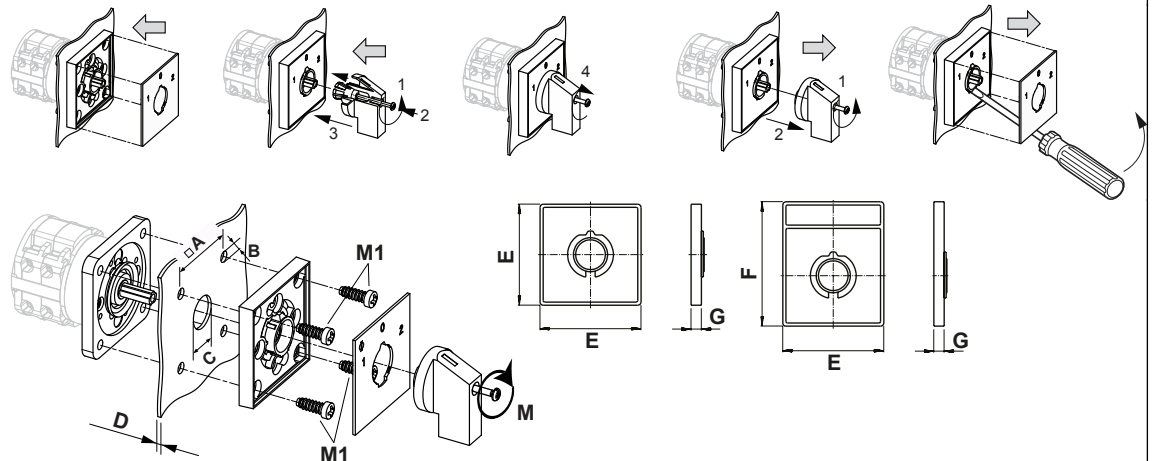
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Mounting-EF



IP - Code front side		IP66, IP67, IP69k
Stages		1,00 - 12,00
A	□	36,00 mm
B	∅	5,00 mm
C	∅	15,00 - 19,00 mm
D	H	<= 4,00 mm
E	H	48,00 mm
F	H	59,00 mm
G	H	6,70 mm
M	↺	0,50 Nm
M1	↺	0,90 Nm

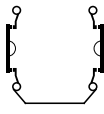
Wiring diagram

CA10.A220.EF



Switch program

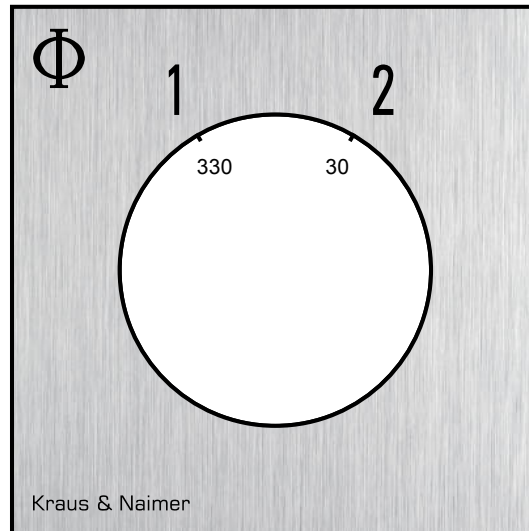
CA10.A220.EF

 Kraus & Naimer		CA10		A220		Page 1 of 1							
Face Plate 													
Switching Angle 60 Total switching Angle 60		1	3	5	7	9	11	13	15	17	19	21	23
		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: 106

Face plate

S0.F072/A1B.PEL



HANDLES

Designation: S0C.G251

Handle colour: "1" black

