



Sample image

Datasheet

Article number: 70011686

Designation: CH10.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 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]	
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	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 5kA rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses.						
Temp. rating of wire						
Temperature rating (°C)			Current (A) Text			
60 - 75			-- Use copper wire only			
General Use						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC	277	20	1	1	1	
AC	600	20	1	2	1	

General Use								
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series			
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				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				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		-- --			
General Use								
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series			
AC	277	20	1	1	1			
AC	600	20	1	2	1			
AC	600	20	3	3	1			
GENERAL TECHNICAL INFORMATION								
Tightening torque of screws								
			tightening torque (Nm)		tightening torque (lb-in)			
			1		9			
Stripping length								
			Length (mm) --					
			9 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		0.75mm²		Copper	
solid wire		Min.	2		0.75mm²		Copper	
flexible wire		Min.	1		0.75mm²		Copper	
flexible wire		Min.	2		0.75mm²		Copper	
flexible wire		Max.	2		AWG 12		Copper	
flexible wire		Max.	2		2.5mm²		Copper	
Single-core or stranded wire		Max.	2		AWG 10		Copper	
Single-core or stranded wire		Max.	2		4mm²		Copper	
flexible wire with ferrule according to DIN 46228		Min.	1		0.75mm²		Copper	
flexible wire with ferrule according to DIN 46228		Min.	2		0.75mm²		Copper	
flexible wire with ferrule according to DIN 46228		Max.	2		2.5mm²		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.								

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-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	M̂	0,50 Nm
M1	M̂	0,90 Nm

Wiring diagram

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Switch program

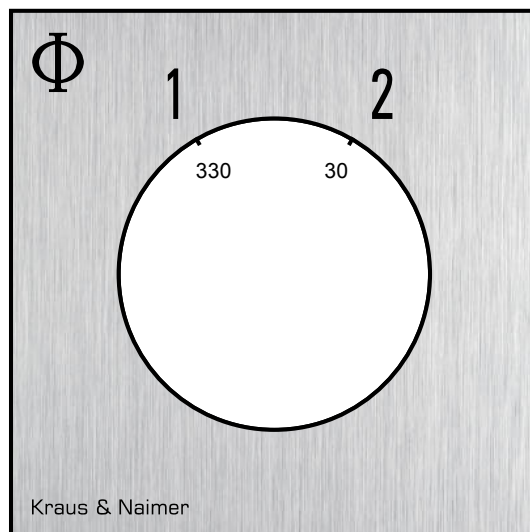
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Face Plate 													
Switching Angle 60 Total switching Angle 60		1	3	5	7	9	11	13	15	17	19	21	23
		2	4	6	8	10	12	14	16	18	20	22	24
1		330											
		345											
		0											
		15											
2		30											
		45											
		60											
		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

