










Sample image

Datasheet

Article number: 70034409
Designation: CA20.A201.FT2.F088
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			
25	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		8	
AC-15			380 - 440		5	
Rated operational power						
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)		
AC-3	220 - 240	3	3	4		
AC-3	380 - 440	3	3	7,50		
AC-3	660 - 690	3	3	7,50		
AC-3	220 - 240	1	2	3		
AC-3	380 - 440	1	2	3,70		
AC-23A	220 - 240	3	3	5,50		
AC-23A	380 - 440	3	3	11		
AC-23A	660 - 690	3	3	11		
AC-23A	220 - 240	1	2	3		
AC-23A	380 - 440	1	2	5,50		
Max. Fuse rating IEC						
Fuse characteristic			No. of Fuses		Current (A)	
gG			1		35	
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	
		30	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	0,33	40
Reversing		220 - 240	1	2	0,75	40
Reversing		277 - 277	1	2	1	40
Reversing		415 - 415	1	2	1,50	40
Reversing		440 - 480	1	2	2	40
Reversing		550 - 600	1	2	2	40
Reversing		110 - 120	3	3	1	40
Reversing		220 - 240	3	3	2	40
Reversing		415 - 415	3	3	3	40
Reversing		440 - 480	3	3	5	40
Reversing		550 - 600	3	3	5	40
DOL		110 - 120	1	2	1,50	40
DOL		220 - 240	1	2	3	40
DOL		277 - 277	1	2	3	40
DOL		415 - 415	1	2	3	40
DOL		440 - 480	1	2	5	40
DOL		550 - 600	1	2	5	40
DOL		110 - 120	3	3	3	40
DOL		220 - 240	3	3	7,50	40
DOL		415 - 415	3	3	7,50	40
DOL		440 - 480	3	3	10	40
DOL		550 - 600	3	3	10	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 disconnect 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			
75			– Use copper wire only			
Connecting instructions						
Markings						
When intended for use as a motor disconnect 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	30	1	2	1	
AC	600	30	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	
			30		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	1,50	40	
DOL	220 - 240	1	2	3	40	
DOL	277 - 277	1	2	3	40	
DOL	415 - 415	1	2	5	40	
DOL	440 - 480	1	2	5	40	
DOL	550 - 600	1	2	5	40	
DOL	110 - 120	3	3	3	40	
DOL	220 - 240	3	3	7,50	40	
DOL	415 - 415	3	3	10	40	
DOL	440 - 480	3	3	10	40	
DOL	550 - 600	3	3	10	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	30	1	1	1	
GENERAL TECHNICAL INFORMATION						
Size of conductor						
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm ²) or (AWG/kcmil)		Material of the wire	
Solid wire	Min.		1	0.75mm ²	Copper	
Solid wire	Min.		2	0.75mm ²	Copper	
Flexible wire	Min.		1	1.5mm ²	Copper	
Flexible wire	Max.		2	AWG 12	Copper	
Flexible wire	Max.		2	4mm ²	Copper	
Flexible wire	Min.		2	1.5mm ²	Copper	
Single-core or stranded wire	Max.		2	AWG 10	Copper	
Single-core or stranded wire	Max.		2	4mm ²	Copper	
Flexible wire with ferrule according to DIN 46228	Min.		1	1mm ²	Copper	
Flexible wire with ferrule according to DIN 46228	Max.		2	2.5mm ²	Copper	
Flexible wire with ferrule according to DIN 46228	Min.		2	1mm ²	Copper	
Stripping length						
			Length (mm) –			
						
Recommended screw driver						
Type of screw driver			Value			
Cross Screwdriver			PH1			
Slot screwdriver according to DIN 5264			0,8x5,5			
Tightening torque of screws						
			tightening torque (Nm)		tightening torque (lb-in)	
			1		9	
Approbations						
Specification						Marking
EAC						


Approbations	Marking
Specification	
CE marking	
UK Directives	
UL 60947-4-1; CSA C22.2 No. 60947-4-1	
CSA C.22.2 No.14	
GB/T14048.3	

General Information


Text

- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.
- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.
- After wiring, ALL terminal screws must be tightened to the specified torque values.
- The protection class of the selected mounting type may vary if optional extras are used.
- 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.
- 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)

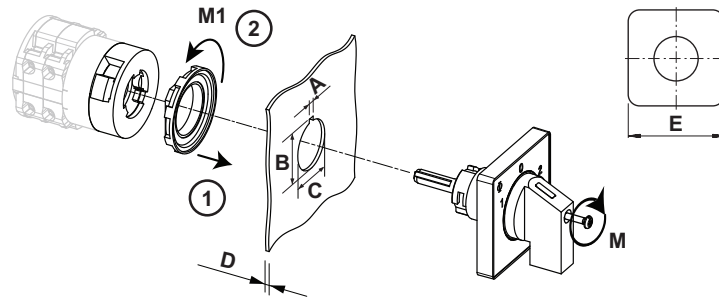
Picture name	Description
	Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find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

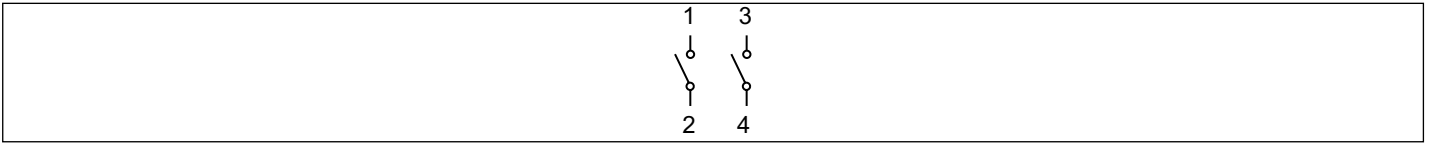
Mounting-FT2



IP - Code front side	IP66, IP67, IP69k
Stages	1,00 - 12,00
A	H 3,20 mm
A+_tol.	H 0,20 mm
A-_tol.	H 0,00 mm
B	H 24,10 mm
B+_tol.	H 0,40 mm
B-_tol.	H 0,00 mm
C	Ø 22,30 mm
C+_tol.	Ø 0,40 mm
C-_tol.	Ø 0,00 mm
D	H <= 6,00 mm
E	□ 48,00 mm
M	⌀ 0,50 Nm
M1	⌀ 1,80 Nm


Wiring diagram

CA20.A201.FT2

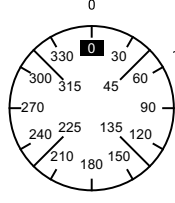
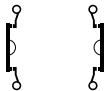


Switch program

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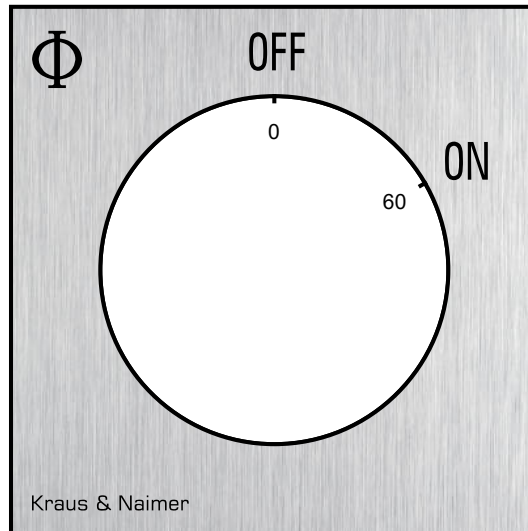
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Face Plate	1	3	5	7	9	11	13	15	17	19	21	23
												
Switching Angle <input type="text" value="60"/> Total switching Angle <input type="text" value="60"/>	2	4	6	8	10	12	14	16	18	20	22	24
0												
15												
30												
45												
60												
75												
90												
105												
120												
135												
150												
165												
180												
195												
210												
225												
240												
255												
270												
285												
300												
315												
330												
345												
							Jumpers					
							1 ●	● 3	4 ●	● 2		
							5 ○	○ 7	8 ○	○ 6		
							9 ○	○ 11	12 ○	○ 10		
							13 ○	○ 15	16 ○	○ 14		
							17 ○	○ 19	20 ○	○ 18		
							21 ○	○ 23	24 ○	○ 22		
							25 ○	○ 27	28 ○	○ 26		
							29 ○	○ 31	32 ○	○ 30		
							33 ○	○ 35	36 ○	○ 34		
							37 ○	○ 39	40 ○	○ 38		
							41 ○	○ 43	44 ○	○ 42		
							45 ○	○ 47	48 ○	○ 46		

Version: 123

Face plate

S0.F088/A10.E1L



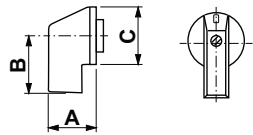
HANDLES

Designation: SOC.G251
Handle colour: "1" black

GENERAL TECHNICAL INFORMATION

Recommended screw driver

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



A	22,00 mm	B	23,80 mm	C	27,60 mm
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