



Sample image

Datasheet

Article number: 70005579

Designation: CA20.A291.PN1

Description: Switch

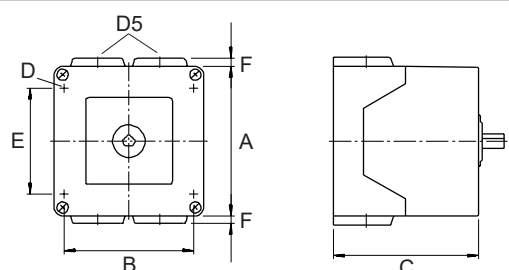
IEC 60947-3 EN 60947-3, VDE 0660 Teil 107				
Rated insulation voltage Ui				
Voltage (V) AC / DC				
690 AC / DC				
Rated uninterrupted current Iu/Ith				
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements	
25	55	60	Ambient temperature +55°C during 24 hours with peaks 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)
Reversing	110 - 120	1	2	0,33
Reversing	220 - 240	1	2	0,75
Reversing	277 - 277	1	2	1
Reversing	415 - 415	1	2	1,50
Reversing	440 - 480	1	2	2
Reversing	550 - 600	1	2	2
Reversing	110 - 120	3	3	1
Reversing	220 - 240	3	3	2
Reversing	415 - 415	3	3	3
Reversing	440 - 480	3	3	5
Reversing	550 - 600	3	3	5
DOL	110 - 120	1	2	1,50
DOL	220 - 240	1	2	3
DOL	277 - 277	1	2	3
DOL	415 - 415	1	2	3
DOL	440 - 480	1	2	5
DOL	550 - 600	1	2	5
DOL	110 - 120	3	3	3
DOL	220 - 240	3	3	7,50
DOL	415 - 415	3	3	7,50
DOL	440 - 480	3	3	10
DOL	550 - 600	3	3	10

Pilot duty rating code						
<i>Duty Code</i>						
A600						
SCCR / Max. fuse rating						
<i>Conditions of acceptability</i>						
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						
<i>Markings</i>						
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						
<i>Across-the-Line Motor Starting</i>				Voltage (V)	No. of phases	No. of poles
				110 - 120	1	2
				220 - 240	1	2
				277 - 277	1	2
				415 - 415	1	2
				440 - 480	1	2
				550 - 600	1	2
				110 - 120	3	3
				220 - 240	3	3
				415 - 415	3	3
				440 - 480	3	3
				550 - 600	3	3
Pilot duty rating code						
<i>Duty Code</i>						
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				
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	1.5mm²	Copper
flexible wire	Max.	2	AWG 12	Copper
flexible wire	Max.	2	4mm²	Copper
flexible wire	Min.	2	1.5mm²	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	1mm²	Copper
flexible wire with ferrule according to DIN 46228	Max.	2	2.5mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	2	1mm²	Copper
Approbations				
<i>Specification</i>			<i>Marking</i>	
EAC				
CE marking				

Approbations	
Specification	Marking
UK Directives	UK CA
CSA C.22.2 No.14	CSA
GB/T14048.3	CCC GB/T14048.3
Recommended screw driver	
Type of screw driver	Value
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x5,5
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-PN1			
			
IP - Code front side		IP42	
Stages		1,00 - 2,00	
A	□	82,00 mm	
B	H	68,00 mm	
C	H	59,70 mm	
D	Ø	4,40 mm	
D5	Ø	4,00 x M20	
E	H	52,00 mm	
F	H	5,00 mm	



Wiring diagram

CA20.A291.PN1



Switch program

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Kraus & Naimer

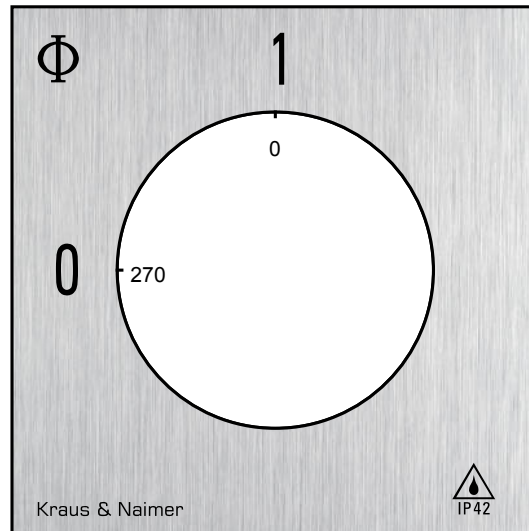
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Face Plate													
		1	3	5	7	9	11	13	15	17	19	21	23
		Switching Angle 90 Total switching Angle 90		2	4	6	8	10	12	14	16	18	20
0	270												
	285												
	300												
	315												
	330												
	345												
1	0											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

Version: 96

Face plate

S1.F056/A10.PNL



HANDLES

Designation: S1B.G257

Handle colour: "7" electro grey

