



Sample image

Datasheet

Article number: 70024209

Designation: CA10.A290*NLB402.PF1

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	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				110 - 120	3	3	1,50	40
DOL				220 - 240	3	3	3	40
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								
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

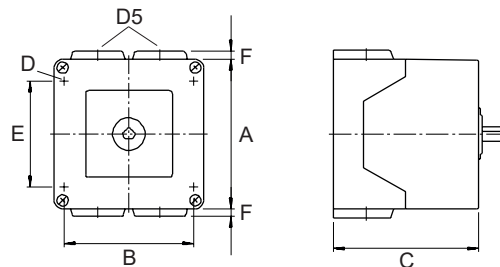
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

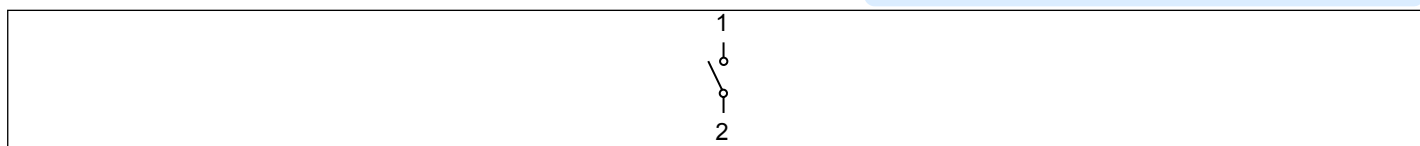
Mounting-PF1



IP - Code front side	IP65
Stages	1,00 - 1,00
A	□ 64,00 mm
B	H 50,00 mm
C	H 41,30 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.A290.PF1



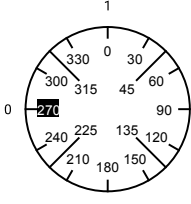
Switch program

CA10.A290.PF1



Kraus & Naimer

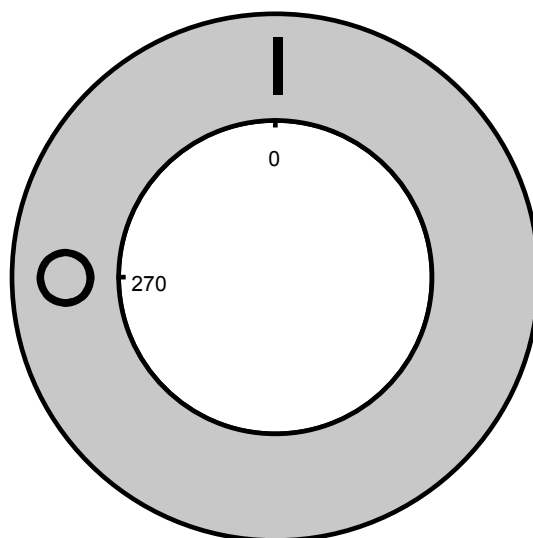
CA10
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Face Plate													
													
		1	3	5	7	9	11	13	15	17	19	21	23
Switching Angle 90 Total switching Angle 90		2	4	6	8	10	12	14	16	18	20	22	24
0		270											
		285											
		300											
		315											
		330											
		345											
1		0											
		15											
		30											
		45											
		60											
		75											
		90											
		105											
		120											
		135											
		150											
		165											
		180											
		195											
		210											
		225											
		240											
		255											

Version: 81

Face plate

S0.F456/C10.V11





Sample image

PADLOCK DEVICE with F-handle ring for type of mounting E, EF, E22, FT, VE, GK, PN, PF, KS (S00)

Designation: S0.V840D/D6-PN

Colour of F-handle ring: "D" red

Colour of face ring: "6" yellow

Type of mounting: "-PN" for type of mounting PN, PF

