



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

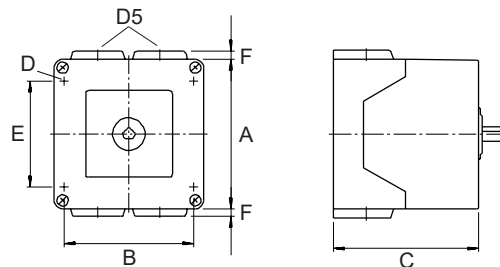
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

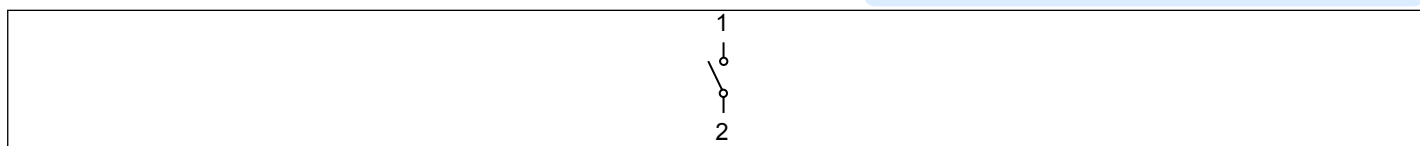
Mounting-PF1



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

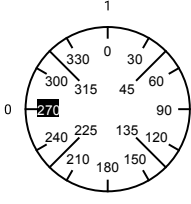
CA10.A290.PF1



Switch program

CA10.A290.PF1

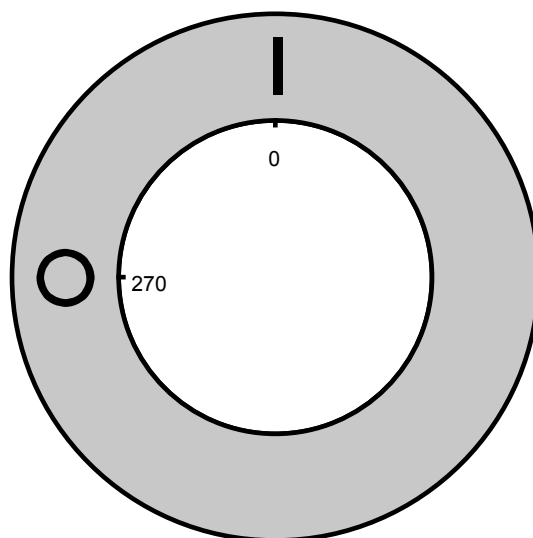
 Kraus & Naimer

		CA10		A290		Page 1 of 1							
Face Plate													
													
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

