



Sample image

Datasheet

Article number: 70002780

Designation: CA10.A241.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 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)
Reversing			110 - 120	1	2	0,17
Reversing			220 - 240	1	2	0,50
Reversing			277 - 277	1	2	0,60
Reversing			110 - 120	3	3	0,50
Reversing			220 - 240	3	3	1
DOL			110 - 120	1	2	0,50
DOL			220 - 240	1	2	1
DOL			277 - 277	1	2	2
DOL			110 - 120	3	3	1,50
DOL			220 - 240	3	3	3
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	1.2 V
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Voltage (V)	AC / DC
300	AC

Rated insulation voltage U_i	
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	Voltage (V)	AC / DC
	300	AC

Rated thermal current	100 A
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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	
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<i>Duty Code</i>	
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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

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	0.5mm ²	Copper
solid wire	Min.	2	0.5mm ²	Copper
flexible wire	Min.	1	0.75mm ²	Copper
flexible wire	Min.	2	0.75mm ²	Copper
flexible wire	Max.	2	2.5mm ²	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	2.5mm ²	Copper
flexible wire with ferrule according to DIN 46228	Min.	1	0.5mm 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	0.5mm ²	Copper

Stripping length

Length (mm) --

8

Recommended screw driver

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

Tightening torque of screws

	tightening torque (Nm)	tightening torque (lb-in)
	0,60	5

Approbations

Specification	Marking
EAC	
CE marking	
UK Directives	
CSA C.22.2 No.14	
GB/T14048.3	

General Information

Text

- Do

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

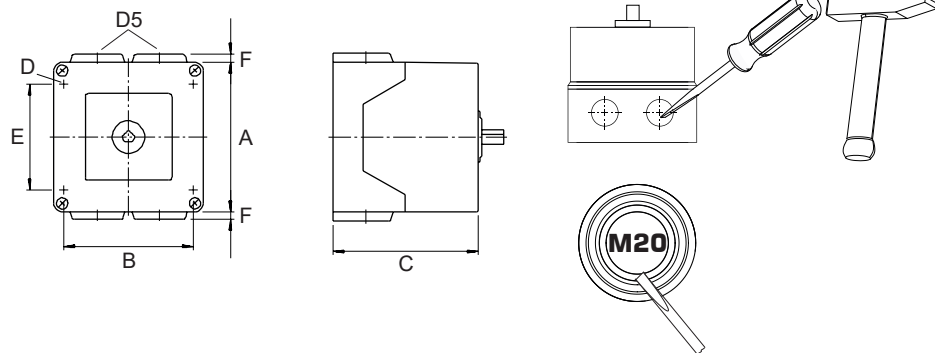
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

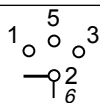
Mounting-PN1



IP - Code front side		IP42
Stages		2,00 - 2,00
A	□	64,00 mm
B	H	50,00 mm
C	H	45,80 mm
D	Ø	4,40 mm
D5	Ø	4,00 x M20
E	H	36,00 mm
F	H	4,00 mm

Wiring diagram

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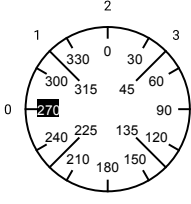
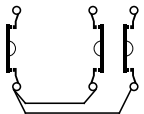
Switch program

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Kraus & Naimer

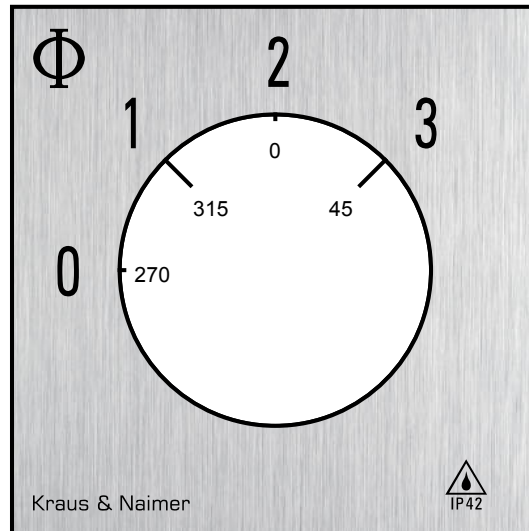
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Face Plate													
													
		1	3	5	7	9	11	13	15	17	19	21	23
Switching Angle	45	2	4	6	8	10	12	14	16	18	20	22	24
Total switching Angle	135												
	0												
	270												
	285												
	300												
	315												
	330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

Version: 69

Face plate

S0.F109/A10.PNL



HANDLES

Designation: S0C.G257

Handle colour: "7" electro grey

