



Sample image

CA10

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Contact development: WAA246

Face plate engraving: F006

Type of mounting: E

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

Rated insulation voltage Ui						
		Voltage (V)	AC / DC			
		690	50/60Hz/DC			
Rated impulse withstand voltage Uimp						
Voltage (kV)		Overvoltage category	Pollution degree	Supply system	Function	
6		III	3	Valid for lines with grounded common neutral termination	Switch	
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)	Current (A)
AC-3	220 - 240		3	3	3	–
AC-3	380 - 440		3	3	5,50	11,50
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	15,50
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	
Tested AC and DC values						
Utilization category / Time constant		No. of contacts in series	Off or change-over switch	Voltage (V)	AC / DC	Current (A)
DC-13		1	ON - OFF	24	DC	3
DC-13		1	ON - OFF	220	DC	0,15
DC-21A		1	ON - OFF	24	DC	20
DC-21A		1	ON - OFF	220	DC	0,90
DC-23A		1	ON - OFF	24	DC	20
DC-23A		1	ON - OFF	220	DC	0,20

UL60947-4-1, UL508

Nominal Voltage						
		Voltage (V)	AC / DC			
		300	AC / DC			
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

Horsepower rating					
Across-the-Line Motor Starting	Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
Reversing	277 - 277	1	2	0,60	40
Reversing	110 - 120	3	3	0,50	40
Reversing	220 - 240	3	3	1	40

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
60 - 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	300	20	1	2	1
AC	300	20	3	3	1

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

CSA
Nominal Voltage

Voltage (V)	AC / DC
300	AC

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 (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

Stripping length

Length (mm) --



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

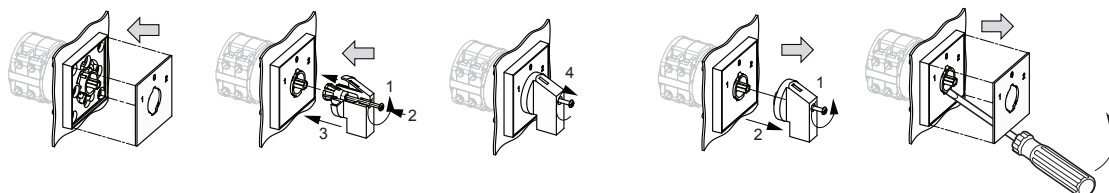
General Information	
Text	
- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed. - DC switching capacity applies to ON/OFF switches. - Terminals with factory fitted jumper links are tightened during production for loss 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 .

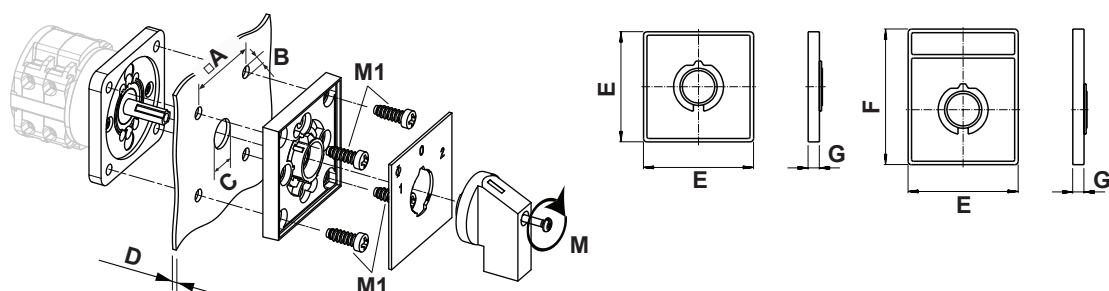
Classification Contact: Rigid contact bridge
Classification Contact Mat: Silver
Classification Terminal: Screw terminal

Mounting-E

Mounting-E



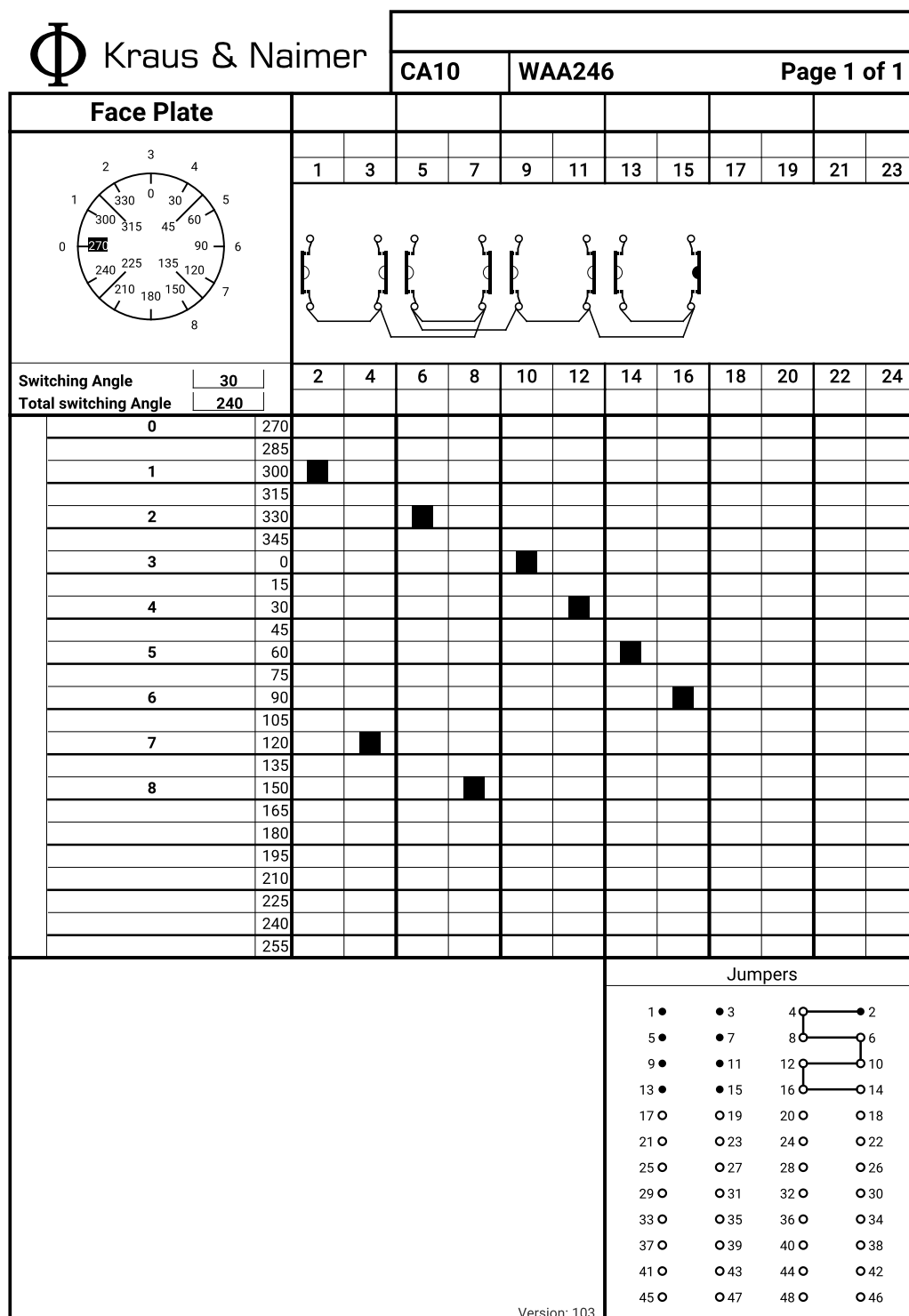
BF_C_E_FP_M



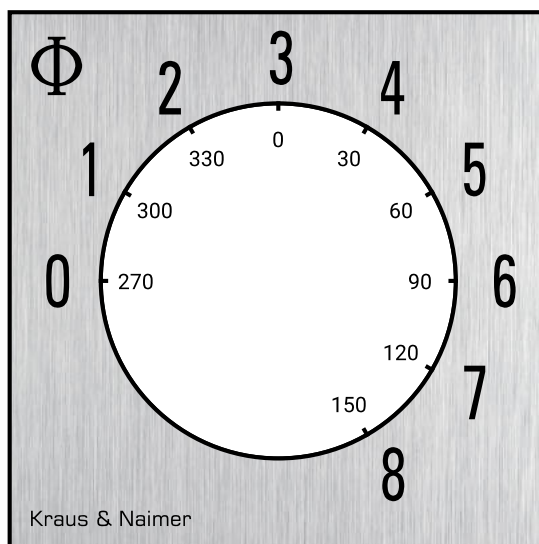
IP - Code front side	IP40
Stages	1,00 - 12,00
A	□ 36,00 mm
B	∅ 5,00 mm
C	∅ 8,00 - 19,00 mm
D	H ≤ 4,00 mm
E	H 48,00 mm
F	H 59,00 mm
G	H 6,70 mm
M	⌘ 0,50 Nm
M1	⌘ 1,20 Nm

Wiring diagram

CA10.WAA246.E



Face plate



G-1**S0C.G001**

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