Kraus & Naimer

Sample image

Datasheet

Article number: 70038971
Designation: C316.T204/46.STM
Description: Switch Global Disconnector

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

Rated insulation voltage Ui

Voltage (V)	*AC / DC*
1000	AC / DC

Rated uninterrupted current Iu/Ith

Current (A)	*Ambient temperature (°C)*	*Peak temperature (°C)*	*additional requirements*
315	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C

Rated operational power

Utilization category	*Voltage (V)*	*No. of phases*	*No. of poles*	*Power (kW)*
AC-3	220 - 240	3	3	37
AC-3	380 - 440	3	3	55
AC-3	660 - 690	3	3	37
AC-3	220 - 240	1	2	22
AC-3	380 - 440	1	2	30
AC-23A	220 - 240	3	3	75
AC-23A	660 - 690	3	3	37
AC-23A	380 - 440	3	3	132
AC-23A	220 - 240	1	2	37
AC-23A	380 - 440	1	2	55

Max. Fuse rating IEC

Fuse characteristic	*No. of Fuses*	*Current (A)*
gG	1	315

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*
240	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	7,50	40
Reversing	220 - 240	1	2	15	40
Reversing	277 - 277	1	2	15	40
Reversing	415 - 415	1	2	20	40
Reversing	440 - 480	1	2	25	40
Reversing	550 - 600	1	2	30	40
Reversing	110 - 120	3	3	15	40
Reversing	220 - 240	3	3	30	40
Reversing	415 - 415	3	3	30	40
Reversing	440 - 480	3	3	40	40
Reversing	550 - 600	3	3	40	40
DOL	110 - 120	1	1	15	40
DOL	220 - 240	1	1	25	40
DOL	110 - 120	1	2	15	40
DOL	220 - 240	1	2	40	40
DOL	440 - 480	1	2	50	40
DOL	550 - 600	1	2	50	40
DOL	110 - 120	3	3	30	40
DOL	220 - 240	3	3	75	40
DOL	380 - 380	3	3	75	40
DOL	440 - 480	3	3	75	40
DOL	550 - 600	3	3	60	40

Pilot duty rating code

Duty Code
A600

SCCR / Max. fuse rating

Conditions of acceptability
These devices are suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac maximum.

General Use

AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	240	1	1	1
AC	600	240	1	2	1
AC	600	240	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
240	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	15	40
DOL	220 - 240	1	2	40	40
DOL	440 - 480	1	2	50	40
DOL	550 - 600	1	2	50	40
DOL	110 - 120	3	3	30	40
DOL	220 - 240	3	3	75	40
DOL	440 - 480	3	3	75	40
DOL	550 - 600	3	3	60	40

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	277	240	1	1	1
AC	600	240	1	2	1
AC	600	240	3	3	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
Flexible wire	Max.	1	MCM 300	Copper
Flexible wire	Max.	1	150mm²	Copper
Single-core or stranded wire	Max.	1	185mm²	Copper
Single-core or stranded wire	Max.	1	MCM 350	Copper

Recommended screw driver

Type of screw driver	Value
Wrench	M12

Tightening torque of screws

tightening torque (Nm)	tightening torque (lb-in)
14	125

Approbations

Specification	Marking
EAC	
CE marking	
UK Directives	
UL 60947-4-1; CSA C22.2 No. 60947-4-1	
CSA C.22.2 No.14	
GB/T14048.3	

General Information

Text

- 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.

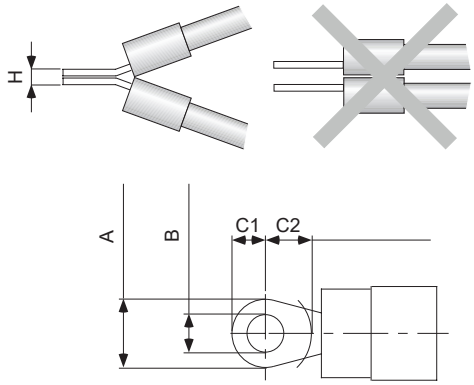
Waste Electrical & Electronic Equipment (WEEE)

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

Kraus & Naimer

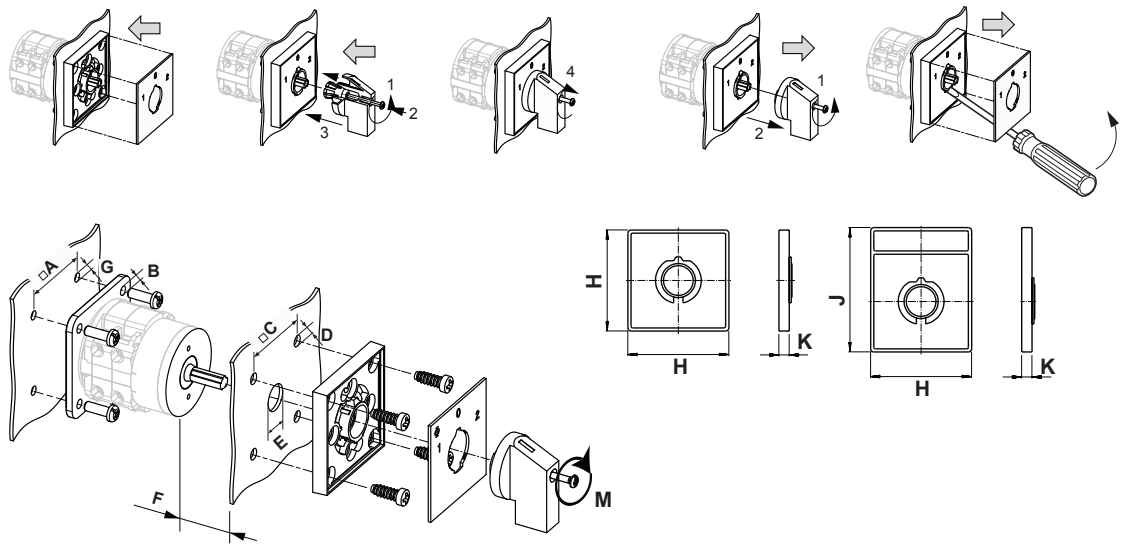
Proposition 65	
Picture name	*Description*
⚠	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Dimensions ring cable lug

picture ring type terminal	*A(mm)*	*B(mm)*	*C1(mm)*	*C2(mm)*	*H(mm)*
	23,60	M12	18,30	--	3,40

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

Mounting-VE



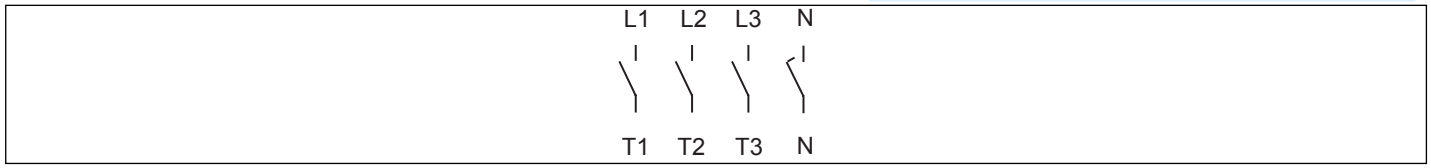
IP - Code front side		IP40
Stages		1,00 - 12,00
A	□	104,00 mm
B	⌀	7,00 mm
C	□	104,00 mm
D	⌀	7,00 mm
E	⌀	15,50 - 25,00 mm
F	H	<= 19,30 mm
G	⌀	5,00 mm
H	H	130,00 mm
J	H	180,00 mm
K	H	11,50 mm
M	M	1,20 Nm

Mounting plates must be mounted with M6 x 25 mm cylinder head screws or oval head screws, washers, and nuts. Please note that these components are not included in the scope of delivery.

Kraus & Naimer

Wiring diagram

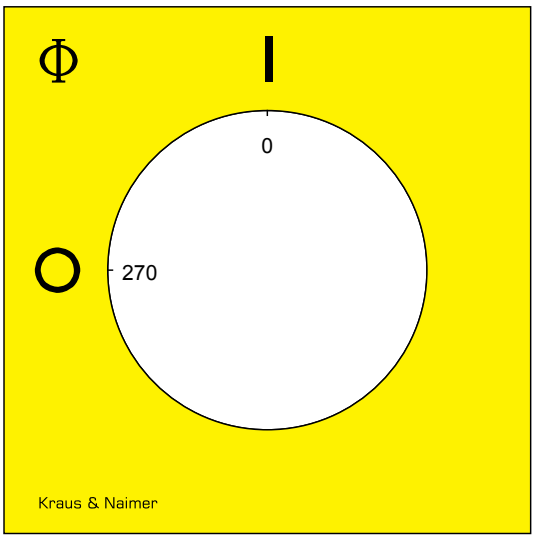
C316.T304.VE



Kraus & Naimer

Face plate

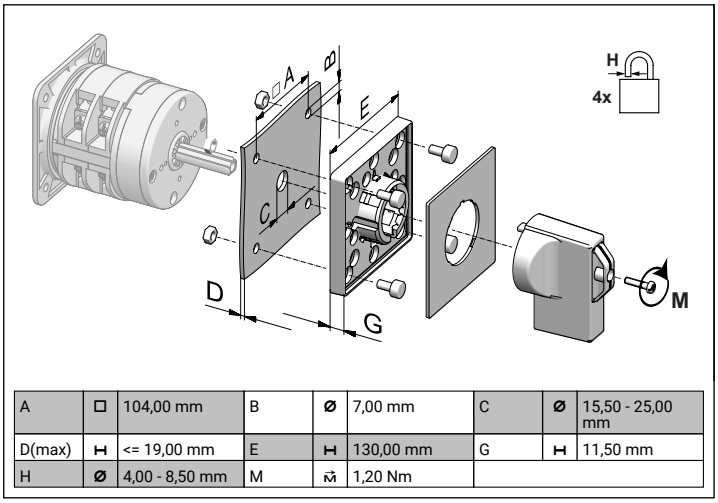
S3.F456/E10.P1LH



Kraus & Naimer

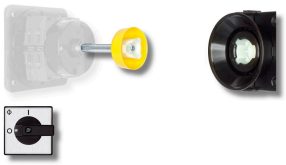
PADLOCK DEVICE

Designation: S3.V845/E11/B11
Face plate and handle unit: "E" face plate/yellow, frame/black, handle/red, locking push rod/yellow
Locking position: "1" at 270°+90° - knockouts every 45°
Angular displacement: "1" 1 x 90°
Type of mounting: "B" for type of mounting VE
Type of version: "1" for same switch size
Switch type: "1" for C-switches and for KG10.



A	□	104,00 mm	B	⌀	7,00 mm	C	⌀	15,50 - 25,00 mm
D(max)	⊢	<= 19,00 mm	E	⊢	130,00 mm	G	⊢	11,50 mm
H	⌀	4,00 - 8,50 mm	M	M	1,20 Nm			

Kraus & Naimer

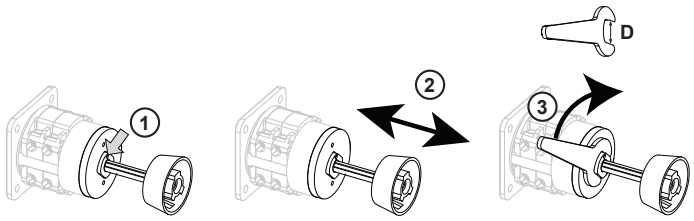


Sample image

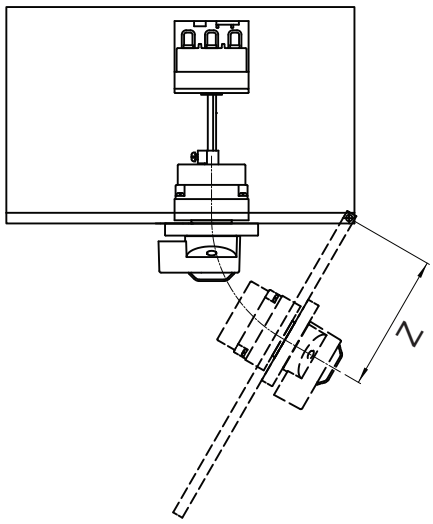
STANDARD DOOR CLUTCH

with shaft extension/asymmetric profile (with shear ring)

Designation: S3.M280D/B21S-EF
Type of interlock: "B2" with protected profile and interlock by door clutch
Shaft length: "1" 60 - 95 mm shaft length
Application: "S" for type of mounting VE
Type of version: "-EF" splash proof (IP66/67)



D	H	30,00 mm



Z	H	>= 110,00 mm

Kraus & Naimer

Sample image

AUXILIARY CONTACTS

(cam operated) for A-, C-, L- and X-switches

Designation: S3.M510B/225A2-B
Number of auxiliary contacts: "2" please see table
Program number: "25" please see table
Version: "A" standard (silver)
Switch type: "2" C315, L-switches (S3)
Type of mounting: "-B" for type of mounting VE

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

Rated insulation voltage Ui

Voltage (V)	*AC / DC*
690	AC

Rated uninterrupted current Iu/Ith

Current (A)	*Ambient temperature (°C)*	*Peak temperature (°C)*	*additional requirements*
16	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	110 - 120	6
AC-15	220 - 240	5
AC-15	380 - 440	4
AC-15	500	1,50
AC-21A	20 - 690	16

Max. Fuse rating IEC

Fuse characteristic	*No. of Fuses*	*Current (A)*
gG	1	16

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*
10	0 - 40	--

Pilot duty rating code

Duty Code
A600

Temp. rating of wire

Temperature rating (°C)	*Current (A)*	*Text*
60	--	--

General Use

AC / DC	*Voltage (V)*	*Current (A)*	*No. of phases*	*No. of poles*	*No. of contacts in series*
AC	600	10	1	1	1

Tightening torque of screws

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

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	2.5mm²	Copper
Flexible wire	Max.	2	AWG 14	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	AWG 12	Copper
Single-core or stranded wire	Max.	2	2.5mm²	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	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)	*tightening torque (lb-in)*
0,60	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.
- 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.
- 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.

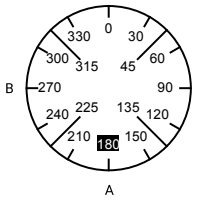
Wiring diagram

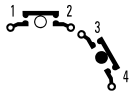
S3.M510B/225A2-B

Kraus & Naimer

S3	M510B/225 VE	Page 1 of 1

Face Plate





Switching Angle 90

Total switching Angle 90

		101	103	105	107	109	111	102	104	106	108	110	112
A	180	■											
	195												
	210												
	225												
	240												
	255												
B	270								■				
	285												
	300												
	315												
	330												
	345												
	0												
	15												
	30												
	45												
	60												
	75												
	90												
	105												
	120												
	135												
	150												
	165												

Version: 2