Kraus & Naimer



Sample image

Datasheet

Article number: 70003099
Description: Other Component
Table de vérité: A292
Marquage face avant: F056
Type de fixation: EF

Taille: S0
Type de contacts: Rigid contact bridge
Revêtement des Contacts: Silver
Types de raccordement: Screw terminal

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

Tension assignée d'isolement Ui

Tension (V)	*AC / DC*
690	AC / DC

Tension assignée de tenue aux chocs Uimp

Tension (KV)	*Classe de protection surcharges*	*Degré de pollution*	*Type d'alimentation*	*Fonction*
6	III	3	Valable pour un réseau triphasé avec le neutre à la terre	interrupteur
4	III	3	Valable pour un réseau triphasé avec le neutre à la terre	Switch disconnector

Courant Ininterrompu et thermique conventionnel Iu/Ith

Intensité (A)	*Température Ambiante (°)*	*Température Maxi (°)*	*Spécification complémentaire*
20	55	60	Température ambiante +55°C durant 24 heures avec point à +60°C

Courant thermique d'emploi sous enveloppe Ithe

Intensité (A)	*Température Ambiante (°)*	*Température Maxi (°)*	*Spécification conmplémentaire*	*Nb d'étage (de-à)*	*Fixation*	*Taille de la fixation*
20	35	40	Température ambiante +35°C durant 24 heures avec point à +40°C	--	--	--

Courant assigné d'emploi Ie

Catégorie d'emploi	*Tension (V)*	*Intensité (A)*
AC-15	220 - 240	6
AC-15	380 - 440	4
AC-20A	690	20
AC-21A	20 - 690	20
AC-22A	220 - 500	20
AC-22A	660 - 690	20

Puissance assignée d'emploi

Catégorie d'emploi	*Tension (V)*	*Nb de phases*	*Nb de pôles*	*Puissance (kW)*
AC-6b	380 - 400	3	3	--
AC-6b	220 - 230	1	2	--
AC-2	220 - 240	3	3	4
AC-2	380 - 440	3	3	7,50
AC-2	500 - 500	3	3	10
AC-2	660 - 690	3	3	10
AC-3	220 - 240	3	3	3
AC-3	380 - 440	3	3	5,50
AC-3	500 - 500	3	3	5,50
AC-3	660 - 690	3	3	5,50
AC-3	110 - 120	1	2	0,60
AC-3	220 - 240	1	2	2,20
AC-3	380 - 440	1	2	3
AC-4	220 - 240	3	3	0,55
AC-4	380 - 440	3	3	1,50
AC-4	500 - 500	3	3	1,50
AC-4	660 - 690	3	3	1,50
AC-4	110 - 120	1	2	0,30
AC-4	220 - 240	1	2	0,75
AC-4	380 - 440	1	2	1,50
AC-23A	220 - 240	3	3	3,70
AC-23A	380 - 440	3	3	7,50
AC-23A	500 - 500	3	3	7,50
AC-23A	660 - 690	3	3	7,50
AC-23A	110 - 120	1	2	0,75
AC-23A	220 - 240	1	2	2,50
AC-23A	380 - 440	1	2	3,70

Kraus & Naimer

Protection par fusible (IEC)					
Caractéri			*Nombre de fusible*		*Intensité (A)*
gG			1		25
Tested AC and DC values					
Utilization category / Time constant	*No. of contacts in series*	*Off or change-over switch*	*Tension (V)*	*AC / DC*	*Intensité (A)*
DC-13	1	ON - OFF	24	DC	3
DC-13	1	ON - OFF	48	DC	1,70
DC-13	1	ON - OFF	60	DC	1,40
DC-13	1	ON - OFF	110	DC	0,70
DC-13	1	ON - OFF	220	DC	0,15
DC-13	2	ON - OFF	24	DC	6
DC-13	2	ON - OFF	48	DC	3
DC-13	2	ON - OFF	96	DC	1,70
DC-13	2	ON - OFF	120	DC	1,40
DC-13	2	ON - OFF	220	DC	0,70
DC-13	2	ON - OFF	440	DC	0,15
DC-21A	1	ON - OFF	24	DC	20
DC-21A	1	ON - OFF	48	DC	20
DC-21A	1	ON - OFF	60	DC	20
DC-21A	1	ON - OFF	110	DC	6
DC-21A	1	ON - OFF	220	DC	0,90
DC-21A	2	ON - OFF	48	DC	16
DC-21A	2	ON - OFF	96	DC	14
DC-21A	2	ON - OFF	120	DC	13
DC-21A	2	ON - OFF	220	DC	6
DC-21A	2	ON - OFF	440	DC	0,90
DC-21A	3	ON - OFF	72	DC	16
DC-21A	3	ON - OFF	144	DC	14
DC-21A	3	ON - OFF	180	DC	13
DC-21A	3	ON - OFF	330	DC	6
DC-21A	3	ON - OFF	660	DC	0,90
DC-21A	4	ON - OFF	96	DC	16
DC-21A	4	ON - OFF	192	DC	14
DC-21A	4	ON - OFF	240	DC	13
DC-21A	4	ON - OFF	440	DC	6
DC-21A	5	ON - OFF	120	DC	16
DC-21A	5	ON - OFF	240	DC	14
DC-21A	5	ON - OFF	300	DC	13
DC-21A	5	ON - OFF	550	DC	6
DC-21A	6	ON - OFF	144	DC	16
DC-21A	6	ON - OFF	288	DC	14
DC-21A	6	ON - OFF	360	DC	13
DC-21A	6	ON - OFF	660	DC	6
DC-21A	8	ON - OFF	192	DC	16
DC-21A	8	ON - OFF	384	DC	14
DC-21A	8	ON - OFF	480	DC	13
DC-22A	1	ON - OFF	24	DC	20
DC-22A	1	ON - OFF	48	DC	20
DC-22A	1	ON - OFF	60	DC	12
DC-22A	1	ON - OFF	110	DC	1,90
DC-22A	1	ON - OFF	220	DC	0,30
DC-22A	2	ON - OFF	48	DC	14
DC-22A	2	ON - OFF	96	DC	13
DC-22A	2	ON - OFF	120	DC	12
DC-22A	2	ON - OFF	220	DC	1,90
DC-22A	2	ON - OFF	440	DC	0,30
DC-22A	3	ON - OFF	72	DC	14
DC-22A	3	ON - OFF	144	DC	13
DC-22A	3	ON - OFF	180	DC	12
DC-22A	3	ON - OFF	330	DC	1,90
DC-22A	3	ON - OFF	660	DC	0,30
DC-22A	4	ON - OFF	96	DC	14
DC-22A	4	ON - OFF	192	DC	13
DC-22A	4	ON - OFF	240	DC	12
DC-22A	4	ON - OFF	440	DC	1,90
DC-22A	5	ON - OFF	120	DC	14
DC-22A	5	ON - OFF	240	DC	13
DC-22A	5	ON - OFF	300	DC	12
DC-22A	5	ON - OFF	550	DC	1,90
DC-22A	6	ON - OFF	144	DC	14
DC-22A	6	ON - OFF	288	DC	13
DC-22A	6	ON - OFF	360	DC	12
DC-22A	6	ON - OFF	660	DC	1,90
DC-22A	8	ON - OFF	192	DC	14
DC-22A	8	ON - OFF	384	DC	13
DC-22A	8	ON - OFF	480	DC	12
DC-23A	1	ON - OFF	24	DC	20
DC-23A	1	ON - OFF	48	DC	20

Kraus & Naimer

Tested AC and DC values

Utilization category / Time constant	*No. of contacts in series*	*Off or change-over switch*	*Tension (V)*	*AC / DC*	*Intensité (A)*
DC-23A	1	ON - OFF	60	DC	10
DC-23A	1	ON - OFF	110	DC	1,50
DC-23A	1	ON - OFF	220	DC	0,20
DC-23A	2	ON - OFF	48	DC	13
DC-23A	2	ON - OFF	96	DC	12
DC-23A	2	ON - OFF	120	DC	10
DC-23A	2	ON - OFF	220	DC	1,50
DC-23A	2	ON - OFF	440	DC	0,20
DC-23A	3	ON - OFF	72	DC	13
DC-23A	3	ON - OFF	144	DC	12
DC-23A	3	ON - OFF	180	DC	10
DC-23A	3	ON - OFF	330	DC	1,50
DC-23A	3	ON - OFF	660	DC	0,20
DC-23A	4	ON - OFF	96	DC	13
DC-23A	4	ON - OFF	192	DC	12
DC-23A	4	ON - OFF	240	DC	10
DC-23A	4	ON - OFF	440	DC	1,50
DC-23A	5	ON - OFF	120	DC	13
DC-23A	5	ON - OFF	240	DC	12
DC-23A	5	ON - OFF	300	DC	10
DC-23A	5	ON - OFF	550	DC	1,50
DC-23A	6	ON - OFF	144	DC	13
DC-23A	6	ON - OFF	288	DC	12
DC-23A	6	ON - OFF	360	DC	10
DC-23A	6	ON - OFF	660	DC	1,50
DC-23A	8	ON - OFF	192	DC	13
DC-23A	8	ON - OFF	384	DC	12
DC-23A	8	ON - OFF	480	DC	10

Rated conditional short-circuit current

Current (kA)	*Text*	*cut-off current Ic (kA)*	*Durchlassenergie I²t (kA²s)*
2	--	1,51	1,67

Rated breaking capacity

Tension (V)	*Intensité (A)*	*Utilization category / UL (DOL)*
220 - 240	130	--
380 - 440	130	--
660 - 690	80	--

Pouvoir assignee de fermeture en court-circuit Icm

Intensité (A)
450

UL60947-4-1 , UL508

Nominal Voltage

Tension (V)	*AC / DC*
300	AC / DC

Tension assignée d'isolement Ui

Tension (V)	*AC / DC*
300	AC

Rated thermal current

Intensité (A)	*Température Ambiante (°)*	*Additional Text*
20	0 - 40	--

Horsepower rating

Across-the-Line Motor Starting	*Tension (V)*	*Nb de phases*	*Nb de pôles*	*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 disconnector 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)	*Intensité (A)*	*Text*
60 - 75	--	--

Connecting instructions

Markings

When intended for use as a motor disconnector the device shall be provided with a method of being locked in the OFF-position.

General Use

AC / DC	*Tension (V)*	*Intensité (A)*	*Nb de phases*	*Nb de pôles*	*No. of contacts in series*
AC	300	20	1	2	1

Kraus & Naimer

General Use

AC / DC	Tension (V)	Intensité (A)	Nb de phases	Nb de pôles	No. of contacts in series
AC	300	20	3	3	1

Suitable as Motor disconnect

Yes/No
Y

CSA

Nominal Voltage

Tension (V)	AC / DC
300	AC

Tension assignée d'isolement Ui

Tension (V)	AC / DC
300	AC

Rated thermal current

Intensité (A)	Température Ambiante (°)	Additional Text
20	0 - 40	--

Horsepower rating

Across-the-Line Motor Starting	Tension (V)	Nb de phases	Nb de pôles	Power (HP)
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

Temp. rating of wire

Temperature rating (°C)	Intensité (A)	Text
75	--	only

General Use

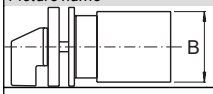
AC / DC	Tension (V)	Intensité (A)	Nb de phases	Nb de pôles	No. of contacts in series
AC	300	20	1	1	1

MASTER DATA

Max. number of stages

number of stages	Modul
12	FL

Switch Measures

Picture name	B	F	H	H1	H2	H3
	43	--	--	--	--	--

GENERAL TECHNICAL INFORMATION

Tightening torque of screws

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

Tested AC and DC values

Utilization category / Time constant	No. of contacts in series	Off or change-over switch	Tension (V)	AC / DC	Intensité (A)
T≤1ms	1	ON - OFF	24	DC	20
T≤1ms	1	ON - OFF	48	DC	12
T≤1ms	1	ON - OFF	60	DC	4,50
T≤1ms	1	ON - OFF	110	DC	1
T≤1ms	1	ON - OFF	220	DC	0,40
T≤1ms	1	ON - OFF	440	DC	0,27
T≤1ms	2	ON - OFF	48	DC	20
T≤1ms	2	ON - OFF	95	DC	12
T≤1ms	2	ON - OFF	120	DC	4,50
T≤1ms	2	ON - OFF	220	DC	1
T≤1ms	2	ON - OFF	440	DC	0,40
T≤1ms	2	ON - OFF	660	DC	0,27
T≤1ms	3	ON - OFF	70	DC	20
T≤1ms	3	ON - OFF	140	DC	12
T≤1ms	3	ON - OFF	180	DC	4,50
T≤1ms	3	ON - OFF	330	DC	1
T≤1ms	3	ON - OFF	660	DC	0,40
T≤1ms	4	ON - OFF	95	DC	20
T≤1ms	4	ON - OFF	190	DC	12
T≤1ms	4	ON - OFF	240	DC	4,50
T≤1ms	4	ON - OFF	440	DC	1
T≤1ms	5	ON - OFF	120	DC	20
T≤1ms	5	ON - OFF	240	DC	12
T≤1ms	5	ON - OFF	300	DC	4,50
T≤1ms	5	ON - OFF	550	DC	1
T≤1ms	6	ON - OFF	145	DC	20
T≤1ms	6	ON - OFF	290	DC	12
T≤1ms	6	ON - OFF	360	DC	4,50
T≤1ms	6	ON - OFF	660	DC	1

Kraus & Naimer

Tested AC and DC values

Utilization category / Time constant	*No. of contacts in series*	*Off or change-over switch*	*Tension (V)*	*AC / DC*	*Intensité (A)*
T≤1ms	8	ON - OFF	190	DC	20
T≤1ms	8	ON - OFF	350	DC	12
T≤1ms	8	ON - OFF	450	DC	4,50
T=50ms	1	ON - OFF	24	DC	12
T=50ms	1	ON - OFF	30	DC	5
T=50ms	1	ON - OFF	48	DC	2
T=50ms	1	ON - OFF	60	DC	1
T=50ms	1	ON - OFF	110	DC	0,40
T=50ms	2	ON - OFF	48	DC	12
T=50ms	2	ON - OFF	60	DC	5
T=50ms	2	ON - OFF	95	DC	2
T=50ms	2	ON - OFF	120	DC	1
T=50ms	2	ON - OFF	220	DC	0,40
T=50ms	3	ON - OFF	70	DC	12
T=50ms	3	ON - OFF	90	DC	5
T=50ms	3	ON - OFF	140	DC	2
T=50ms	3	ON - OFF	180	DC	1
T=50ms	3	ON - OFF	330	DC	0,40
T=50ms	4	ON - OFF	95	DC	12
T=50ms	4	ON - OFF	120	DC	5
T=50ms	4	ON - OFF	190	DC	2
T=50ms	4	ON - OFF	240	DC	1
T=50ms	4	ON - OFF	440	DC	0,40
T=50ms	5	ON - OFF	120	DC	12
T=50ms	5	ON - OFF	150	DC	5
T=50ms	5	ON - OFF	240	DC	2
T=50ms	5	ON - OFF	300	DC	1
T=50ms	5	ON - OFF	550	DC	0,40
T=50ms	6	ON - OFF	145	DC	12
T=50ms	6	ON - OFF	180	DC	5
T=50ms	6	ON - OFF	290	DC	2
T=50ms	6	ON - OFF	360	DC	1
T=50ms	6	ON - OFF	660	DC	0,40
T=50ms	8	ON - OFF	190	DC	12
T=50ms	8	ON - OFF	240	DC	5
T=50ms	8	ON - OFF	350	DC	2
T=50ms	8	ON - OFF	450	DC	1

Stripping length

Length (mm)	--
8	STRIPPINGLENGTH

Minimal ratings (voltage/current)

Tension (V)	*Current (mA)*	*Environment conditions*	*Environment conditions 2*	*Environment conditions 3*
20	5	Ambient air must be free of particular contamination with sulfur and/or sulfurous components such as H2S etc.	In case extraordinary contamination with dust is expected an adequate dust protection is required.	--

Rated short-time withstand current Icw

Time (s)	*Intensité (A)*
1	140

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	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	Min.	2	0,5mm²	Copper

Approbations

Specification	*Marking*
EAC	EAC
CE marking	CE
UK Directives	UKCA
Lloyd´s Register EMEA	Lloyd's Register
IEC 60947-3; EN 60947-3; VDE 0660 Teil107	**IEC 60947-3** **EN 60947-3**

Kraus & Naimer

Approbations

Specification	*Marking*
UL 60947-4-1; CSA C22.2 No. 60947-4-1	
CSA C.22.2 No.14	
GB/T14048.3	
Russian Maritme Register of Shipping	

Power loss per pole

Power (W)
0,90

Mechanical life

No. of operations	*Température Ambiante (°)*	*Number of stages*	*Limitations*
1000000	-5 - 55	--	Valid for manual operation. Valid for switches without optional extras. The value refers to the mechanics of the device, for lifetime of the electrical contacts please refer to "electrical life values".
150000	-25 - 55	5	Valid for manual operation. Valid for switches without optional extras. The value refers to the mechanics of the device, for lifetime of the electrical contacts please refer to "electrical life values".

Electrical life (B10-Value)

Catégorie d'emploi	*cos(φ)*	*Time constant (ms)*	*Tension (V)*	*Intensité (A)*	*No. of operations*	*number of series contacts*	*AC/DC*	*Nb de phases*	*Nb de pôles*
--	0,56	--	119	15	100000	1	AC	1	1
--	0,59	--	122	10	150000	1	AC	1	1
--	0,59	--	220	5	900000	1	AC	1	1
--	0,59	--	220	10	100000	1	AC	1	1
--	0,95	--	220	10	125000	1	AC	1	1
--	0,59	--	220	15	35000	1	AC	1	1
--	0,64	--	220	20	25000	1	AC	1	1
--	0,65	--	380	5	300000	1	AC	1	1
--	0,64	--	380	10	90000	1	AC	1	1
--	0,64	--	380	15	40000	1	AC	1	1
AC-3	--	--	440	11,50	100000	1	AC	3	3
AC-23	--	--	440	15,50	30000	1	AC	3	3
AC-3	--	--	690	6,80	100000	1	AC	3	3
AC-23	--	--	690	9	80000	1	AC	3	3
AC-22	--	--	690	20	40000	1	AC	3	3
--	--	1	24	20	80000	1	DC	1	1
--	--	1	48	12	75000	1	DC	1	1
--	--	1	60	4,50	200000	1	DC	1	1
--	--	1	110	2	100000	1	DC	1	1
--	--	1	220	0,50	100000	1	DC	1	1
--	--	1,20	440	0,28	200000	1	DC	1	1
--	--	50	24	0,50	200000	1	DC	1	1
--	--	50	24	1	100000	1	DC	1	1
--	--	50	24	12	8000	1	DC	1	1
--	--	50	30	5	20000	1	DC	1	1
--	--	50	48	1	75000	1	DC	1	1
--	--	50	48	3	50000	1	DC	1	1
--	--	50	60	2	30000	1	DC	1	1
--	--	50	110	0,40	80000	1	DC	1	1
--	--	50	110	0,50	80000	1	DC	1	1
--	--	51	60	1	50000	1	DC	1	1
--	--	52	110	0,10	200000	1	DC	1	1
--	--	55	110	1	50000	1	DC	1	1
--	--	55	110	1,50	25000	1	DC	1	1
--	--	55	220	0,50	40000	1	DC	1	1
--	--	100	110	0,50	50000	1	DC	1	1
--	--	100	110	1	25000	1	DC	1	1

Recommandations concernant le tournevis

Type	*Value*
Tournevis cruciforme	PH1
Flat blade	0,8x4

Degree of protection

IP - Code switch terminal
IP20

Conditions during transport and storing

Minimum temperature (°C)	*Maximum temperature (°C)*	*Spécification complémentaire*
-40	85	In case of temperatures below -5°C no shock load permissible

Shock / Vibration

Type of oscillation	*Values*
Resistance to vibration	Min. 4g, 2-100Hz, 1,6mm

Shock / Vibration	
Type of oscillation	*Values*
Resistance to shock	Min. 5g, 6ms
Resistance to vibration	IEC 61373 (1999) Catégorie 1, Classe B
Resistance to shock	min. 5g, 30ms

General Information

Text

- Valeurs nominales en courant continu s'appliquant aux interrupteurs.
- Ne jamais lubrifier ou traiter les contacts.
- Les commutateurs ne peuvent être montés, branchés et mis en service que par une personne qualifiée selon les règles techniques en vigueur.
- Use copper wire only. Do not coat the wire end with tin.
- Les bornes qui ne sont pas supposées être utilisées pour le raccordement del'appareil sont livrées serrées et ne doivent pas être desserrées. Si toutefois ces bornes sont malgré tout ouvertes accidentellement, verifier qu'aucun shunt n'est manquant. Le câblage terminé, s'assurer que toutes les bornes sont serrées.
- Après mise en place des les commutateurs l'espace entre bor nes doit être suffisant pour répondre aux exigences des normes en vigueur.

Creepage distance
Distance (mm)
9,50

Clearance
Distance (mm)
6,35

Distance of stages
Distance (mm)
9,50

Operating temperature	
Min. Temperature [°C]	*Max. Temperature [°C]*
-25	60

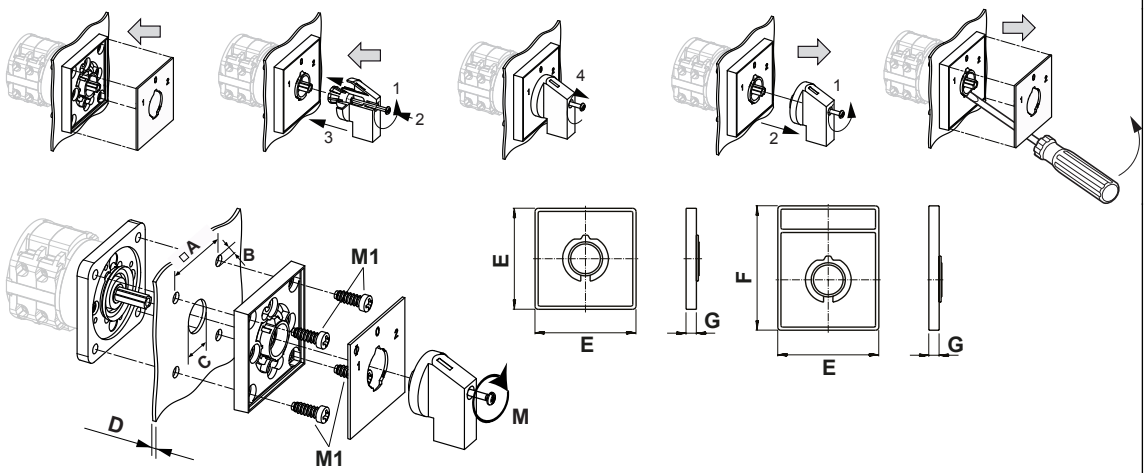
Waste Electrical & Electronic Equipment (WEEE)

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.

Fixation-EF



IP - Code front side		IP66, IP67, IP69k
Stages		1,00 - 12,00
A	□	36,00 mm
B	Ø	5,00 mm
C	Ø	15,00 - 19,00 mm
D	H	<= 4,00 mm
E	H	48,00 mm

	F	H	59,00 mm
	G	H	6,70 mm
	M	$\vec{M}$	0,50 Nm
	M1	$\vec{M}$	0,90 Nm

Kraus & Naimer

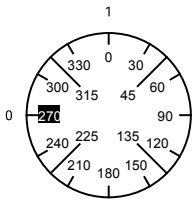
Wiring diagram

CA10.A292.EF

Kraus & Naimer

CA10 | A292 | Page 1 of 1

Face Plate



Switching Angle 90

Total switching Angle 90

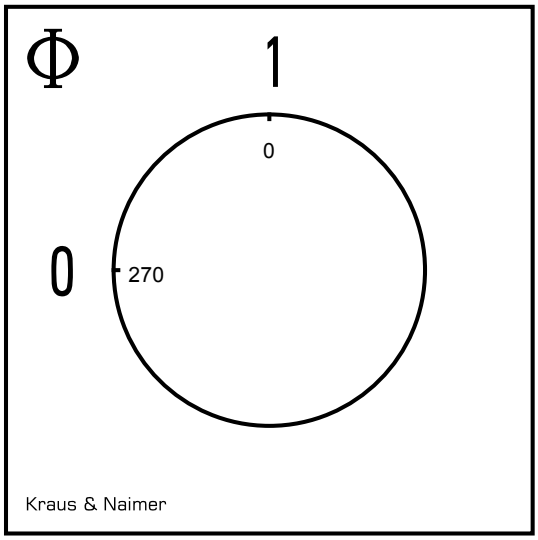
		1	3	5	7	9	11	13	15	17	19	21	23
		2	4	6	8	10	12	14	16	18	20	22	24
0	270												
	285												
	300												
	315												
	330	■	■	■									
	345	■	■	■									
1	0	■	■	■									
	15												
	30												
	45												
	60												
	75												
	90												
	105							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

Version: 85

Kraus & Naimer

Face plate

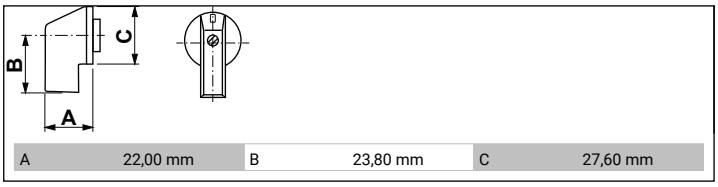
S0.F056/A1B.PEL



Kraus & Naimer

HANDLES

Designation: S0C.G251
Handle colour: "1" black



A	22,00 mm	B	23,80 mm	C	27,60 mm