



Sample image

Datasheet

Article number: 70006208

Designation: CA20B.A293.EF

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107				
Rated insulation voltage Ui				
Voltage (V) AC / DC				
690 AC / DC				
Rated uninterrupted current Iu/Ith				
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements	
25	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		8
AC-15		380 - 440		5
Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3	220 - 240	3	3	4
AC-3	380 - 440	3	3	7,50
AC-3	660 - 690	3	3	7,50
AC-3	220 - 240	1	2	3
AC-3	380 - 440	1	2	3,70
AC-23A	220 - 240	3	3	5,50
AC-23A	380 - 440	3	3	11
AC-23A	660 - 690	3	3	11
AC-23A	220 - 240	1	2	3
AC-23A	380 - 440	1	2	5,50
Max Fuse Rating IEC				
Fuse characteristic		No. of Fuses		Current (A)
gG		1		35
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
30		0 - 40		–
Horsepower rating				
Across-the-Line Motor Starting	Voltage (V)	No. of phases	No. of poles	Power (HP)
Reversing	110 - 120	1	2	0,33
Reversing	220 - 240	1	2	0,75
Reversing	277 - 277	1	2	1
Reversing	415 - 415	1	2	1,50
Reversing	440 - 480	1	2	2
Reversing	550 - 600	1	2	2
Reversing	110 - 120	3	3	1
Reversing	220 - 240	3	3	2
Reversing	415 - 415	3	3	3
Reversing	440 - 480	3	3	5
Reversing	550 - 600	3	3	5
DOL	110 - 120	1	2	1,50
DOL	220 - 240	1	2	3
DOL	277 - 277	1	2	3
DOL	415 - 415	1	2	3
DOL	440 - 480	1	2	5
DOL	550 - 600	1	2	5
DOL	110 - 120	3	3	3
DOL	220 - 240	3	3	7,50
DOL	415 - 415	3	3	7,50
DOL	440 - 480	3	3	10
DOL	550 - 600	3	3	10

Pilot duty rating code						
<i>Duty Code</i>						
A600						
SCCR / Max. fuse rating						
<i>Conditions of acceptability</i>						
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						
<i>Temperature rating (°C)</i>			<i>Current (A) Text</i>			
75			– Use copper wire only			
Connecting instructions						
<i>Markings</i>						
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						
<i>AC / DC</i>	<i>Voltage (V)</i>	<i>Current (A)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>No. of contacts in series</i>	
AC	600	30	1	2	1	
AC	600	30	3	3	1	
CSA						
Nominal Voltage						
			<i>Voltage (V) AC / DC</i>			
			600 AC			
Rated insulation voltage Ui						
			<i>Voltage (V) AC / DC</i>			
			600 AC			
Rated thermal current						
<i>Current (A)</i>		<i>Ambient temperature (°C)</i>		<i>Additional Text</i>		
30		0 - 40		–		
Horsepower rating						
<i>Across-the-Line Motor Starting</i>		<i>Voltage (V)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>Power (HP)</i>	<i>Ambient temperature [°C]</i>
DOL		110 - 120	1	2	1,50	40
DOL		220 - 240	1	2	3	40
DOL		277 - 277	1	2	3	40
DOL		415 - 415	1	2	5	40
DOL		440 - 480	1	2	5	40
DOL		550 - 600	1	2	5	40
DOL		110 - 120	3	3	3	40
DOL		220 - 240	3	3	7,50	40
DOL		415 - 415	3	3	10	40
DOL		440 - 480	3	3	10	40
DOL		550 - 600	3	3	10	40
Pilot duty rating code						
<i>Duty Code</i>						
A600						
Temp. rating of wire						
<i>Temperature rating (°C)</i>			<i>Current (A) Text</i>			
75			– only			
General Use						
<i>AC / DC</i>	<i>Voltage (V)</i>	<i>Current (A)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>No. of contacts in series</i>	
AC	600	30	1	1	1	
GENERAL TECHNICAL INFORMATION						
Tightening torque of screws						
			<i>tightening torque (Nm)</i>		<i>tightening torque (lb-in)</i>	
			1		9	
Stripping length						
			<i>Length (mm) –</i>			
			9 STRIPPINGLENGTH			
Size of conductor						
<i>composition of conductor</i>	<i>Min. / Max. value</i>		<i>No. of conductor per terminal</i>	<i>Cross section (mm²) or (AWG/kcmil)</i>		<i>Material of the wire</i>
flexible wire	Max.		2	AWG 12		Copper
flexible wire	Max.		2	4mm²		Copper
Single-core or stranded wire	Max.		2	AWG 10		Copper
Single-core or stranded wire	Max.		2	4mm²		Copper
flexible wire with ferrule according to DIN 46228	Max.		2	2.5mm²		Copper
Approbations						
<i>Specification</i>						<i>Marking</i>
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	0,8x5,5

General Information

Text

- 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.
- 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



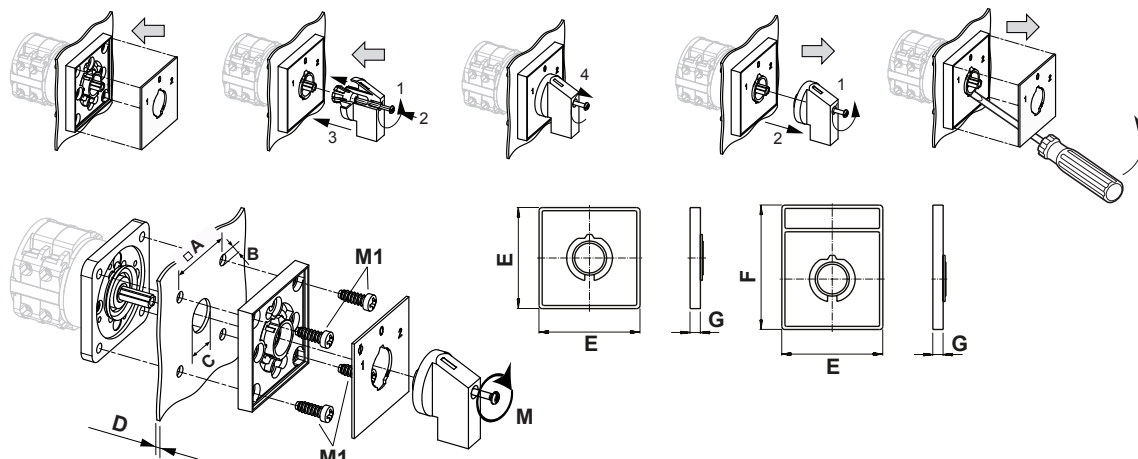
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Mounting-EF



IP - Code front side	IP66, IP67, IP69k
Stages	1,00 - 12,00
A	□ 48,00 mm
B	∅ 5,00 mm
C	∅ 19,00 - 22,00 mm
D	H <= 4,00 mm
E	H 64,00 mm
F	H 78,00 mm
G	H 7,40 mm
M	$\vec{M}$ 0,70 Nm
M1	$\vec{M}$ 0,90 Nm

Wiring diagram

CA20B.A293.EF



Switch program

CA20B.A293.EF



Kraus & Naimer

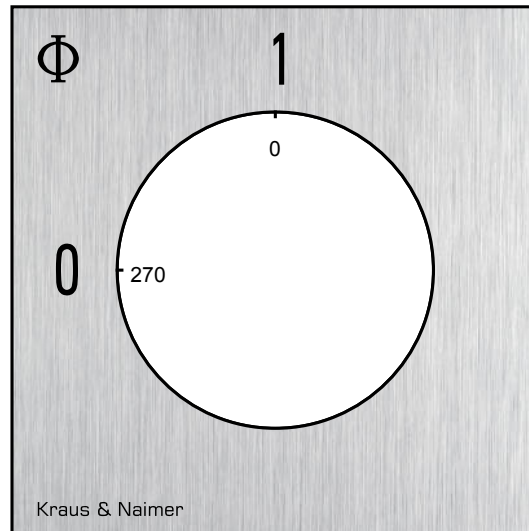
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Face Plate																									
		1		3		5		7		9		11		13		15		17		19		21		23	
																									
Switching Angle 90 Total switching Angle 90		2		4		6		8		10		12		14		16		18		20		22		24	
0	270																								
	285																	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

Version: 87

Face plate

S1.F056/A1B.PEL



HANDLES

Designation: S1B.G251

Handle colour: "1" black

