



Sample image

Datasheet

Article number: 70024333

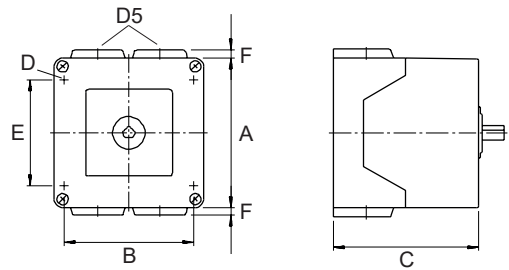
Designation: CA20.A291*NLB403.PF1

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)	Ambient temperature [°C]
Reversing	110 - 120	1	2	0,33	40
Reversing	220 - 240	1	2	0,75	40
Reversing	277 - 277	1	2	1	40
Reversing	415 - 415	1	2	1,50	40
Reversing	440 - 480	1	2	2	40
Reversing	550 - 600	1	2	2	40
Reversing	110 - 120	3	3	1	40
Reversing	220 - 240	3	3	2	40
Reversing	415 - 415	3	3	3	40
Reversing	440 - 480	3	3	5	40
Reversing	550 - 600	3	3	5	40
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	3	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	7,50	40
DOL	440 - 480	3	3	10	40

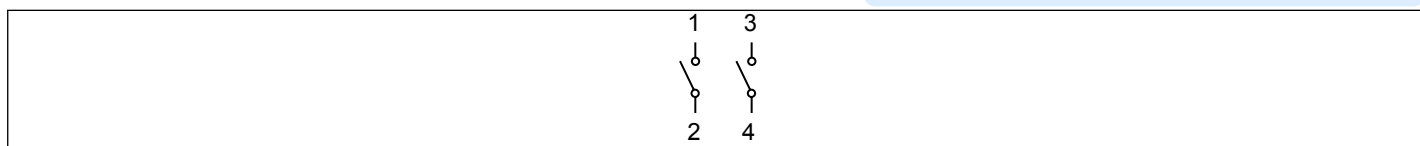
Horsepower rating						
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
DOL		550 - 600	3	3	10	40
Pilot duty rating code						
Duty Code						
A600						
SCCR / Max. fuse rating						
Conditions of acceptability						
These devices are suitable for use on circuits capable of delivering not more than 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			
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	600	30	1	2	1	
AC	600	30	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	
30			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	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						
Duty Code						
A600						
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	600	30	1	1	1	
GENERAL TECHNICAL INFORMATION						
Tightening torque of screws						
			tightening torque (Nm)		tightening torque (lb-in)	
			1		9	
Stripping length						
			Length (mm) –			
			9 STRIPPINGLENGTH			
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		0.75mm²		Copper
solid wire	Min.	2		0.75mm²		Copper
flexible wire	Min.	1		1.5mm²		Copper
flexible wire	Max.	2		AWG 12		Copper
flexible wire	Max.	2		4mm²		Copper
flexible wire	Min.	2		1.5mm²		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	Min.	1		1mm²		Copper
flexible wire with ferrule according to DIN 46228	Max.	2		2.5mm²		Copper
flexible wire with ferrule according to DIN 46228	Min.	2		1mm²		Copper
Approbations						
Specification						Marking
EAC						

Approbations		Marking
Specification		
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-PF1			
			
IP - Code front side		IP65	
Stages		1,00 - 2,00	
A	□	82,00 mm	
B	H	68,00 mm	
C	H	64,70 mm	
D	Ø	4,40 mm	
D5	Ø	4,00 x M20	
E	H	52,00 mm	
F	H	5,00 mm	

Wiring diagram

CA20.A291.PF1



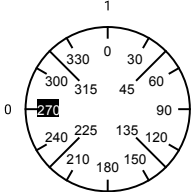
Switch program

CA20.A291.PF1



Kraus & Naimer

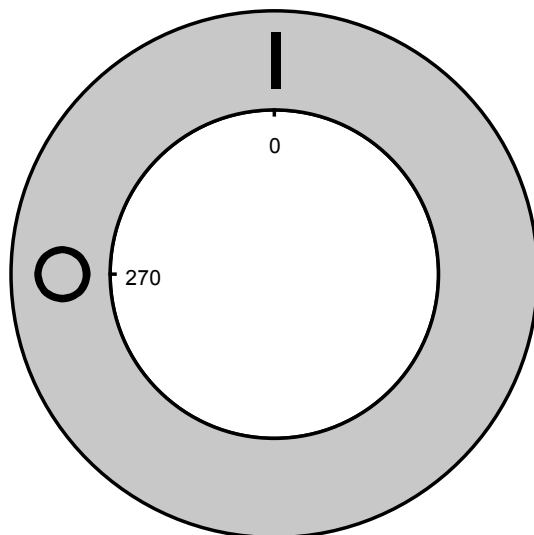
CA20
A291
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Face Plate																									
		1		3		5		7		9		11		13		15		17		19		21		23	
		 																							
Switching Angle 90 Total switching Angle 90		2		4		6		8		10		12		14		16		18		20		22		24	
0		270																							
		285																							
		300																							
		315																							
		330																							
		345																							
1		0																							
		15																							
		30																							
		45																							
		60																							
		75																							
		90																							
		105																							
		120																							
		135																							
		150																							
		165																							
		180																							
		195																							
		210																							
		225																							
		240																							
		255																							

Version: 96

Face plate

S1.F456/C10.V11H





Sample image

PADLOCK DEVICE with F-handle ring

Designation: S1.V840G/A71/C1

Colour of F-handle ring: "A" black

Colour of face ring: "7" electro-grey

Locking position: "1" at 09:00 (1x90°)

Type of mounting: "C" for type of mounting PN, PF, PFA-PFF

Switch type: "1" for C-switches and for KG10.

