



Sample image


Datasheet





Article number: 70005597

Designation: CA20.A292.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						
<i>Across-the-Line Motor Starting</i>			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

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	550 - 600	3	3	10	40	
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) 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>
solid wire	Min.		1	0.75mm ²		Copper
solid wire	Min.		2	0.75mm ²		Copper
flexible wire	Min.		1	1.5mm ²		Copper
flexible wire	Max.		2	AWG 12		Copper
flexible wire	Max.		2	4mm ²		Copper
flexible wire	Min.		2	1.5mm ²		Copper
Single-core or stranded wire	Max.		2	AWG 10		Copper
Single-core or stranded wire	Max.		2	4mm ²		Copper
flexible wire with ferrule according to DIN 46228	Min.		1	1mm ²		Copper
flexible wire with ferrule according to DIN 46228	Max.		2	2.5mm ²		Copper
flexible wire with ferrule according to DIN 46228	Min.		2	1mm ²		Copper
Approbations						
<i>Specification</i>						<i>Marking</i>
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)

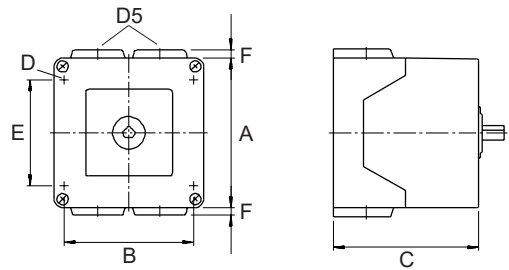
Picture name	Description
	Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find 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

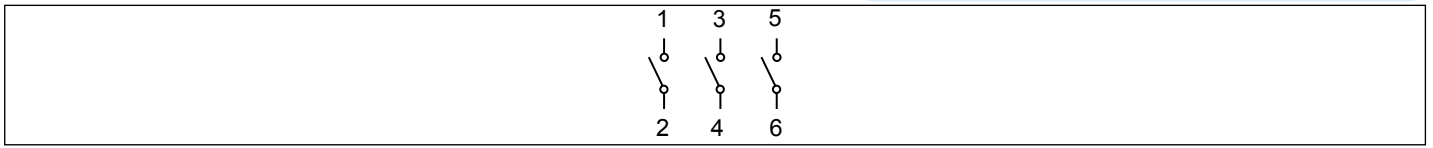
Mounting-PF1



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	H 4,40 mm
D5	∅ 4,00 x M20
E	H 52,00 mm
F	H 5,00 mm


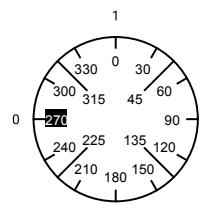

Wiring diagram

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Switch program

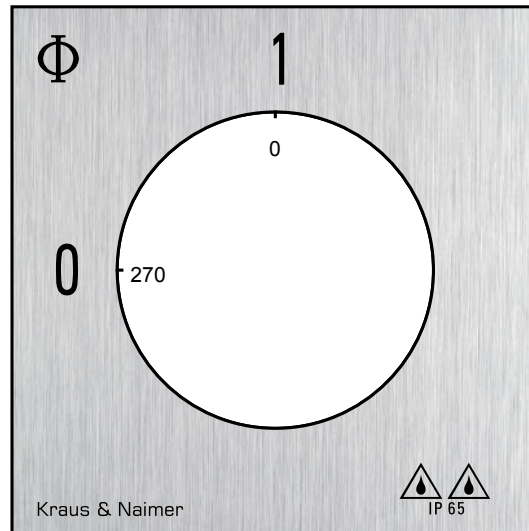
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 Kraus & Naimer		CA20	A292	Page 1 of 1											
Face Plate															
		1	3	5	7	9	11	13	15	17	19	21	23		
															
Switching Angle <input type="text" value="90"/> Total switching Angle <input type="text" value="90"/>		2	4	6	8	10	12	14	16	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: 86

Face plate

S1.F056/A10.PFL



HANDLES

Designation: S1B.G257

Handle colour: "7" electro grey

