



Sample image

Datasheet

Article number: 70005788

Designation: CA20.A410.PF1

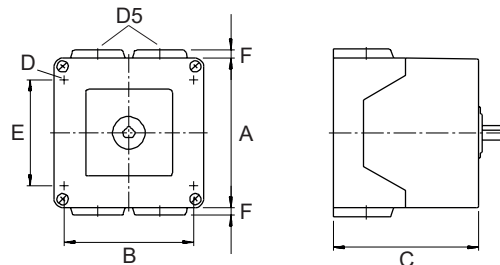
Description: Switch

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					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		

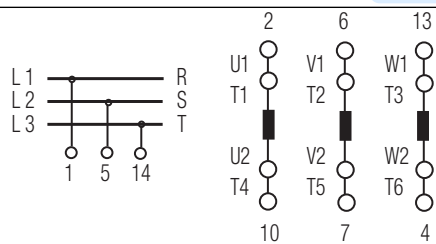
Mounting-PF1



IP - Code front side		IP65
Stages		3,00 - 4,00
A	□	82,00 mm
B	H	68,00 mm
C	H	90,10 mm
D	Ø	4,40 mm
D5	Ø	4,00 x M20
E	H	52,00 mm
F	H	5,00 mm

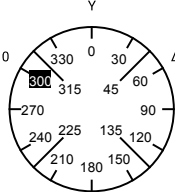
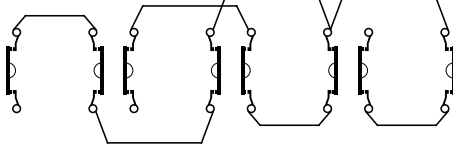
Wiring diagram

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Switch program

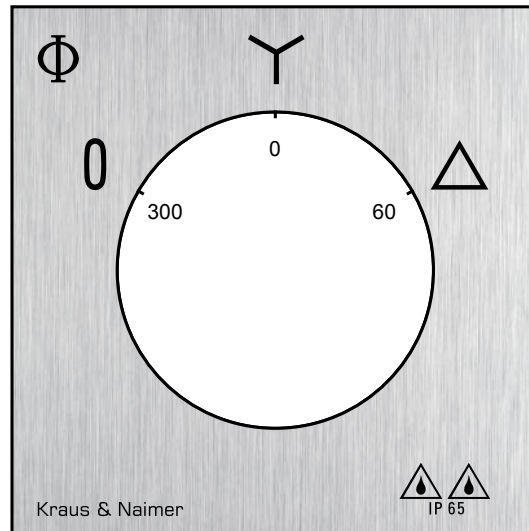
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 Kraus & Naimer		CA20		A410		Page 1 of 1							
Face Plate													
		1	3	5	7	9	11	13	15	17	19	21	23
													
Switching Angle 60 Total switching Angle 120		2	4	6	8	10	12	14	16	18	20	22	24
0													
300													
315													
330													
345													
Y													
0													
15													
30													
45													
Δ													
60													
75													
90													
105													
120													
135													
150													
165													
180													
195													
210													
225													
240													
255													
270													
285													

Version: 55

Face plate

S1.F080/A10.PFL



HANDLES

Designation: S1B.G257

Handle colour: "7" electro grey

