



Sample image

Datasheet

Article number: 70001950

Designation: CA10.A178.FT2

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107					
Rated insulation voltage Ui					
			Voltage (V) AC / DC		
			690 AC / DC		
Rated impulse withstand voltage Uimp					
Voltage (kV)		Overvoltage category	Pollution degree	Supply system	Function
4 III			3	Valid for lines with grounded common neutral termination	Switch disconnecter
Rated uninterrupted current Iu/Ith					
Current (A)		Ambient temperature (°C)	Peak temperature (°C) additional requirements		
20		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		6
AC-15			380 - 440		4
Rated operational power					
Utilization category		Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3		220 - 240	3	3	3
AC-3		380 - 440	3	3	5,50
AC-3		660 - 690	3	3	5,50
AC-3		220 - 240	1	2	2,20
AC-3		380 - 440	1	2	3
AC-23A		220 - 240	3	3	3,70
AC-23A		380 - 440	3	3	7,50
AC-23A		660 - 690	3	3	7,50
AC-23A		220 - 240	1	2	2,50
AC-23A		380 - 440	1	2	3,70
Max Fuse Rating IEC					
Fuse characteristic			No. of Fuses		Current (A)
gG			1		25
UL60947-4-1 , UL508					
Nominal Voltage					
			Voltage (V) AC / DC		
			300 AC / DC		
Rated insulation voltage Ui					
			Voltage (V) AC / DC		
			300 AC		
Rated thermal current					
		Current (A)	Ambient temperature (°C)		Additional Text
		20	0 - 40		--
Horsepower rating					
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)
Reversing		110 - 120	1	2	0,17
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 disconnecter 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		
		60 - 75	-- Use copper wire only		

Connecting instructions						
Markings						
When intended for use as a motor disconnecter 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	300	20	1	2	1	
AC	300	20	3	3	1	
CSA						
Nominal Voltage						
				Voltage (V) AC / DC		
				300 AC		
Rated insulation voltage Ui						
				Voltage (V) AC / DC		
				300 AC		
Rated thermal current						
		Current (A)	Ambient temperature (°C)		Additional Text	
		20	0 - 40 --			
Horsepower rating						
Across-the-Line Motor Starting				Voltage (V)	No. of phases	No. of poles
				110 - 120	1	2
DOL				220 - 240	1	2
DOL				277 - 277	1	2
DOL				110 - 120	3	3
DOL				220 - 240	3	3
Pilot duty rating code						
Duty Code						
A300						
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	300	20	1	1	1	
GENERAL TECHNICAL INFORMATION						
Tightening torque of screws						
				tightening torque (Nm)	tightening torque (lb-in)	
				0,60	5	
Stripping length						
				Length (mm) --		
				8 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		0.5mm²	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	Min.	1		0.5mm²	Copper	
flexible wire with ferrule according to DIN 46228	Max.	2		2.5mm²	Copper	
flexible wire with ferrule according to DIN 46228	Min.	2		0.5mm²	Copper	
Approbations						
Specification						
Marking						
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				0,8x4		
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.						

General Information

Text

- 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



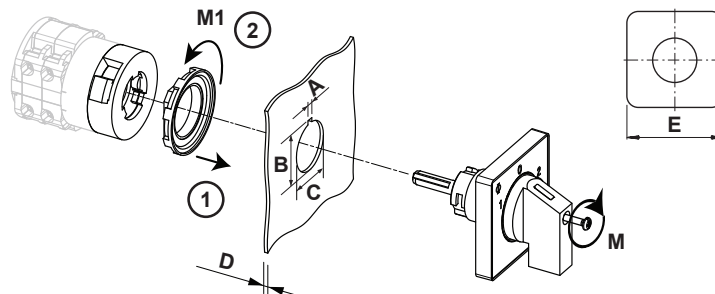
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

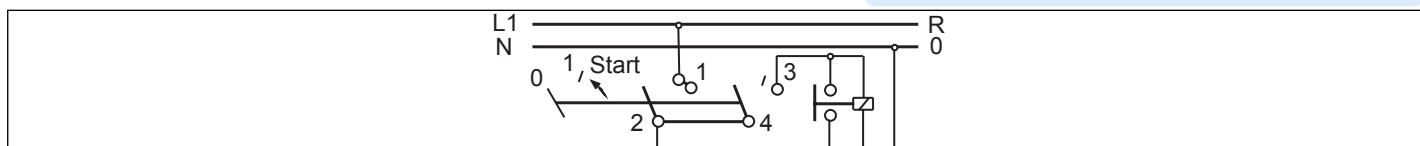
Mounting-FT2



IP - Code front side		IP66, IP67, IP69k
Stages		1,00 - 12,00
A	H	3,20 mm
A+_tol.	H	0,20 mm
A-_tol.	H	0,00 mm
B	H	24,10 mm
B+_tol.	H	0,40 mm
B-_tol.	H	0,00 mm
C	Ø	22,30 mm
C+_tol.	Ø	0,40 mm
C-_tol.	Ø	0,00 mm
D	H	<= 6,00 mm
E	□	48,00 mm
M	↺	0,50 Nm
M1	↺	1,80 Nm

Wiring diagram

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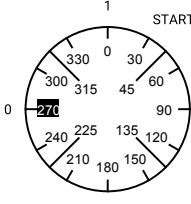
Switch program

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Kraus & Naimer

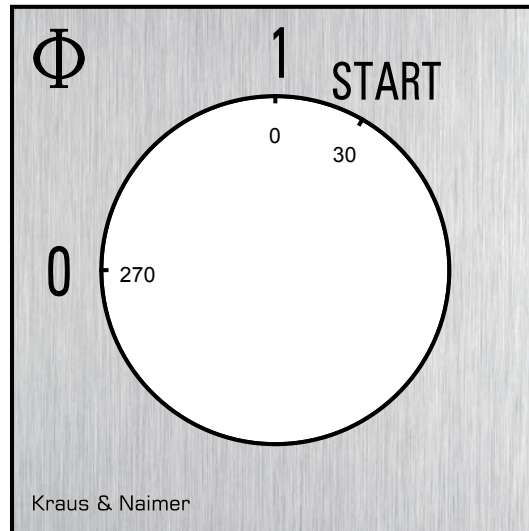
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Face Plate													
													
		1	3	5	7	9	11	13	15	17	19	21	23
Switching Angle 90 Total switching Angle 120		2	4	6	8	10	12	14	16	18	20	22	24
	0	270											
	285												
	300												
	315												
	330												
	345								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

Version: 131

Face plate

S0.F119/A10.E1L



HANDLES

Designation: S0C.G251

Handle colour: "1" black

