

Product designation				Rotary cam switches
Product type designation				GN12
<b>General characteristics</b>				
Switching diagram				59
<b>Contact characteristics</b>				
Rated insulation voltage $U_i$	IEC/EN	V	690	
	UL/CSA	V	600	
Rated impulse withstand voltage $U_{imp}$			kV	8
Conventional free air thermal current $I_{th}$	IEC/EN	A	125	
	UL/CSA	A	130	
Rated operational voltage			V	690
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	125	
	25kA	A	100	
	50kA	A	100	
	63kA	A	100	
Rated short time current $I_{cw}$			1s	A
				2100
Operational current $I_e$ IEC/EN	AC1/AC21A			A
				125
AC15	110V	A	40	
	220/230V	A	28	
	380/400V	A	15	
	660/690V	A	5	
Rated operational power in AC	Three-phase AC-3			
	220/230V	kW	18.5	
	380/440V	kW	37	
	500/690V	kW	33	
	Single-phase AC-3			
	110V	kW	5	
	220/230V	kW	11	
	380/440V	kW	15	
	Three-phase AC23A			
	220/230V	kW	30	
	380/440V	kW	45	
	500/690V	kW	37	
Single-phase AC23A				
110V	kW	5		
220/230V	kW	11		
380/440V	kW	15		
Rated operational current in DC	DC21A			
	48V	A	125	
	60V	A	80	
	110V	A	10	
	220V	A	1.2	
	DC23A (poles in series)			

24V	A	125 (1)
48V	A	125 (2)
60V	A	125 (3)
110V	A	50 (3)
220V	A	20 (4)

DC13

24V	A	125
48V	A	100
60V	A	50
110V	A	4

**Mechanical features**

Terminals screw M2X5

Tightening torque for terminals max Nm 2

Conductor size

AWG - Rigid cable

min	AWG	14
Max	AWG	1/0

AWG - Flexible cable

min	AWG	14
Max	AWG	1/0

Conductor size (IEC) - Flexible cable

min	mm <sup>2</sup>	2.5
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Conductor size (IEC) - Rigid cable

min	mm <sup>2</sup>	2.5
Max	mm <sup>2</sup>	50

Mechanical life cycles 1x10<sup>6</sup>

**UL technical data**

Motor power for direct-on-line control

for three-phase motor

600V	HP	40
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**Ambient conditions**

Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
max	°C	+70

**Resistance & Protection**

Frontal IP degree IP40

Terminals IP degree IP00

**ETIM classification**

ETIM 8.0 EC001105 - Off-load switch