

Product designation				Rotary cam switches
Product type designation				GN12
General characteristics				
Switching diagram				51
N° of elements				1
Contact characteristics				
Rated insulation voltage Ui	IEC/EN	V	690	
	UL/CSA	V	600	
Rated impulse withstand voltage Uimp			kV	8
Conventional free air thermal current Ith	IEC/EN	A	125	
	UL/CSA	A	130	
Rated operational voltage			V	690
Maximum fuse size for short-circuit protection In (gG)	10kA	A	125	
	25kA	A	100	
	50kA	A	100	
	63kA	A	100	
Rated short time current Icw			1s	A
				2100
Operational current Ie 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 ²	2.5
---------------------------------------	-----	-----------------	-----

Conductor size (IEC) - Rigid cable	min	mm ²	2.5
	Max	mm ²	50

Mechanical life	cycles	1x10 ⁶
-----------------	--------	-------------------

UL technical data

Motor power for direct-on-line control for three-phase motor	600V	HP	40
---	------	----	----

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
----------	----------------------------