



Product designation			Rotary cam
•			switches 7GN12
Product type designation General characteristics			7GN12
Switching diagram			20 - Dahlander motor 2-speed reversing switch
N° of elements			6
Mounting form Contact characteristics			U65 - Front mounting with red/yellow handle padlockable in 0 and protection covers
Rated insulation voltage Ui			
	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp Conventional free air thermal current Ith		kV	6
Conventional nee all thermal current till	IEC/EN UL/CSA	A A	16 15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	Α	16
	15kA	A	10
B. (I I I I I I I I I I I I I I I I I I	25kA	Α	10
Rated short time current lcw	1s	kA	200
Conductivity			10/5 mA/V
Operational current le IEC/EN AC1/AC21A		A	16
AC15			
	110V	Α	10
	220/230V	Α	8
	380/400V	Α	4
·	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3	000/0001	1 1 8 7	0.5
	220/230V	kW	2.5
	380/440V 500/690V	kW	4
Single-phase AC-3	300/690 V	kW	5.5
Olligie-pilase AO-S	110V	kW	0.8
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A			
•	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.8





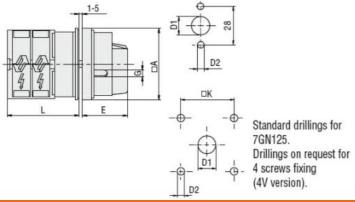
Rated operational current in DC					
Rated operational current in DC DC21A			220/230V	kW	1.7
DC21A			380/440V	kW	3
Max	Rated operational cur				
Conductor size Cond		DC21A			
1100					
Part					
DC23A (poles in series)					
DC23A (poles in series)					
A			440V	A	0.25
A		DC23A (poles in series)			
Conductor size Cond				Α	
110V				Α	10 (2)
DC13			60V	Α	10 (3)
DC13			110V	Α	5 (3)
DC13			220V	Α	5 (4)
A		DC13			• • • • • • • • • • • • • • • • • • • •
A			24V	Α	12
Conductor size (IEC) - Flexible cable Max			48V		
110V					
Power dissipation					
Power dissipation W 0.8					
Power dissipation W					
Mechanical features	Dawer dissination		440 V		
Terminals screw				VV	0.8
Tightening torque for terminals max					MO
AWG - Rigid cable		Construction of the constr		N. I	
AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 3x10° UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1.5 240V HP		terminais max		NM	0.5
Max AWG 12	Conductor size				
Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 AWG		AWG - Rigid cable			
AWG - Flexible cable min Max AWG 20 Max AWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 3x106 UL technical data Motor power for direct-on-line control for three-phase motor 120V					
Max AWG 20 Max AWG 14			Max	AWG	12
Max		AWG - Flexible cable			
Conductor size (IEC) - Flexible cable			min	AWG	20
Max min mm² 0.5 Max mm² 2.5			Max	AWG	14
Max min mm² 0.5 Max mm² 2.5		Conductor size (IEC) - Flexible cable			
Conductor size (IEC) - Rigid cable			min	mm²	0.5
Conductor size (IEC) - Rigid cable			Max	mm²	2.5
Mechanical life cycles 3x10° UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions 240V HP 1 Temperature Operating temperature min °C -25 max °C +55		Conductor size (IEC) - Rigid cable			
Mechanical life cycles 3x10° UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions Temperature Operating temperature min °C -25 max °C +55			min	mm²	0.5
Mechanical life cycles 3x10 ⁶ UL technical data Motor power for direct-on-line control 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions Temperature Operating temperature min °C -25 max °C +55					
Motor power for direct-on-line control	Mechanical life		man		
Motor power for direct-on-line control for three-phase motor 120V				5,0100	
for three-phase motor 120V		t-on-line control			
120V	oto: powor for difeo				
240V HP 3		ioi tiliee-pilase iliotoi	4001/	Пυ	1 5
To single-phase motor					
120V		for about all and accounts	240V	нР	3
Ambient conditions 240V HP 1		ror single-phase motor			o =
Ambient conditions Temperature Operating temperature min °C -25 max °C +55					
Temperature Operating temperature min °C -25 max °C +55			240V	HP	1
Operating temperature min °C -25 max °C +55					
min °C -25 max °C +55	Temperature				
max °C +55		Operating temperature			
			min	°C	-25
			max	°C	+55
		Storage temperature			



min	°C	-40
may	°C	⊥7 ∩

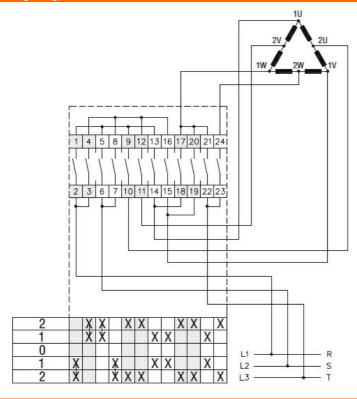
Resistance & Protection	
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Carios		Dimensions					L			
Series -	□A	D1	D2	Е	G	□K	1	2	3	12
7GN12	65	12	5	34.2	5	36	36.1	45.8	55.5	142.8
7GN20	65	12	5	34.2	5	36	36.1	45.8	55.5	142.8
7GN25	65	12	5	34.2	5	36	40.5	54.1	67.7	190.1
7GN32	65	14	5	38	6	48	46.5	61.6	76.7	212.6
7GN40	65	14	5	38	6	48	46.5	61.6	76.7	212.6
7GN63	65	14	5	38	6	48	50.3	68.4	86.5	249.4
7GN125	90	16	6	49	7	68	67.3	96.4	125.5	394.9

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cCSAus

EAC

UL

ETIM classification





ETIM 8.0

EC001029 -Selector switch, complete