

Product designation	Rotary cam switches		
Product type designation	7GN12		
General characteristics			
Switching diagram	20 - Dahlander motor 2-speed reversing switch		
N° of elements	6		
Mounting form	O98 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers		
Contact characteristics			
Rated insulation voltage Ui	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	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 15kA 25kA	A A A	16 10 10
Rated short time current Icw	1s	kA	200
Conductivity	10/5 mA/V		
Operational current Ie IEC/EN			
AC1/AC21A		A	16
AC15	110V 220/230V 380/400V 660/690V	A A A A	10 8 4 1.5
Rated operational power in AC			
Three-phase AC-3	220/230V 380/440V 500/690V	kW kW kW	2.5 4 5.5
Single-phase AC-3	110V 220/230V 380/440V	kW kW kW	0.8 1.5 2.2
Three-phase AC23A	220/230V 380/440V 500/690V	kW kW kW	3 5.5 7.5
Single-phase AC23A			

		110V	kW	0.8
		220/230V	kW	1.7
		380/440V	kW	3
Rated operational current in DC				
DC21A				
		48V	A	12
		60V	A	12
		110V	A	4
		220V	A	0.6
		440V	A	0.25
DC23A (poles in series)				
		24V	A	10 (1)
		48V	A	10 (2)
		60V	A	10 (3)
		110V	A	5 (3)
		220V	A	5 (4)
DC13				
		24V	A	12
		48V	A	10
		60V	A	8
		110V	A	1
		220V	A	0.4
		440V	A	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for terminals max			Nm	0.5
Conductor size				
AWG - Rigid cable				
		min	AWG	20
		Max	AWG	12
AWG - Flexible cable				
		min	AWG	20
		Max	AWG	14
Conductor size (IEC) - Flexible cable				
		min	mm ²	0.5
		Max	mm ²	2.5
Conductor size (IEC) - Rigid cable				
		min	mm ²	0.5
		Max	mm ²	2.5
Mechanical life			cycles	3x10 ⁶
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

Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
-------------------	------

Terminals IP degree	IP00
---------------------	------

ETIM classification

ETIM 8.0	EC001029 - Selector switch, complete
----------	--