

Product designation			Rotary cam switches		
Product type designation			7GN20		
General characteristics					
Switching diagram			19 - Dahlander motor control switch 0-1-2		
N° of elements			4		
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	V	690
			UL/CSA	V	600
Rated impulse withstand voltage Uimp				kV	6
Conventional free air thermal current Ith			IEC/EN	A	20
			UL/CSA	A	20
Rated operational voltage				V	480
Rated operational impulse voltage				kV	4
Maximum fuse size for short-circuit protection In (gG)			10kA	A	20
			15kA	A	16
			25kA	A	16
Rated short time current Icw			1s	kA	250
Conductivity			10/5 mA/V		
Operational current Ie IEC/EN					
AC1/AC21A				A	20
AC15			110V	A	10
			220/230V	A	8
			380/400V	A	6
			660/690V	A	1.5
Rated operational power in AC					
Three-phase AC-3			220/230V	kW	3
			380/440V	kW	5.5
			500/690V	kW	5.5
Single-phase AC-3			110V	kW	0.8
			220/230V	kW	2.2
			380/440V	kW	3
Three-phase AC23A			220/230V	kW	5
			380/440V	kW	7.5
			500/690V	kW	7.5
Single-phase AC23A					

		110V	kW	0.8
		220/230V	kW	2.5
		380/440V	kW	3.7
Rated operational current in DC				
	DC21A			
		48V	A	20
		60V	A	20
		110V	A	4
		220V	A	0.6
		440V	A	0.25
	DC23A (poles in series)			
		24V	A	20 (1)
		48V	A	20 (2)
		60V	A	20 (3)
		110V	A	10 (3)
		220V	A	8 (4)
	DC13			
		24V	A	20
		48V	A	16
		60V	A	12
		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 <sup>2</sup>	0.5
		Max	mm <sup>2</sup>	2.5
	Conductor size (IEC) - Rigid cable			
		min	mm <sup>2</sup>	0.5
		Max	mm <sup>2</sup>	2.5
Mechanical life			cycles	5x10 <sup>6</sup>
UL technical data				
Motor power for direct-on-line control				
	for three-phase motor			
		120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
		600V	HP	10
	for single-phase motor			
		120V	HP	0.75
		240V	HP	2
Ambient conditions				
Temperature				
	Operating temperature			

Storage temperature	min	°C	-25
	max	°C	+55

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