7GN12586P

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3 2 POLES 125A IN PLASTIC ENCLOSURE 180X254 WITH BLACK HANDLE

General characteristics

Switching diagram	86 - Multi-step 1-2-3 2 poles
N° of elements	3
Mounting form	P - Plastic enclosure with black handle

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	125
	UL/CSA	A	130
Rated operational voltage		V	690
Rated operational impulse voltage		kV	6
Maximum fuse size for short-circuit protection In (gG)			
	10kA	A	125
	15kA	A	100
	25kA	A	100
	50kA	A	100
	63kA	A	100
Rated short time current Icw			
	1s	kA	2100
Conductivity			10/5 mA/V
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			

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		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
Power dissipation			W	6.3
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
		Max	mm^2	50
	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			
		120V	HP	15
		240V	HP	25
		480V	HP	50
		600V	HP	40
	for single-phase motor			
		120V	HP	5
		240V	HP	15
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protection				
Frontal IP degree				IP65
Terminals IP degree				IP00

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Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12❶	75x75❸	1 - 2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20❶		1 - 2	3 - 4												
7GN25❶		1	2 - 3												
7GN12❷	90x90	1 - 3	4 - 6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20❷		1 - 3	4 - 6												
7GN25❷		1 - 2	3 - 4												
7GN32		1	2 - 3												
7GN40		1	2 - 3												
7GN12	110x110	1 - 4	5 - 8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1 - 4	5 - 8												
7GN25		1 - 3	4 - 5												
7GN32❶		1 - 2	3 - 5												
7GN40❶		1 - 2	3 - 5												
7GN63		1 - 2	3 - 4												
7GN32❷	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40❷		1 - 2	3 - 4												
7GN63❶		1 - 2	3 - 4												
7GN125		1	2												
7GN32	198x248	–	1 - 7	198	248	190-210	140-180	5.5	32	35	104	–	166.5	6xPG16-21-29	IP65
7GN40		–	1 - 7												
7GN63❷		–	1 - 6												
7GN125❶❷		–	1 - 4												

❶ Standard dimensions for cam switch in plastic enclosure with black handle (P).
❷ DStandard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

ETIM classification

ETIM 8.0

EC001029 - Selector switch, complete

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