



ENCLOSED ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER, 16A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

Product yee designation	Product designation				Enclosed rotary
Semeral characteristics	_	ion			
Nith thing diagram					/GN12
Mounting form P25 - Plastic enclosure with readyellow handle Contact characteristics Rated insulation voltage Ui IEC/EN UL/CSA V 600 Rated impulse withstand voltage Uimp kV 6 Conventional free air thermal current Ith IEC/EN A 15 Rated operational voltage kV 4 Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 16 15kA A 10 25kA A 10 Rated short time current Icw 1s A 200 Conductivity 10/5 mA/V Operational current Ie IEC/EN A 16 AC1/AC21A A 16 AC15 110V A 10 AC16 110V A 8 AC16 110V A 8 A 16 15 MA/V Prime-phase AC-3 220/230V A 8 Single-phase AC-3 220/230V kW 2.5 AC1/AC24A 380/440V kW 2.2 AC1/AC24A 220/230V kW 3.5 AC20/230V kW 3.5 380/440V kW 2.5 AC20/230V kW 3.5 380/440V kW 3.5 AC20/230V kW 3.5 380/440V kW 3.5					motor starter
Mounting form	N° of elements				4
Rated insulation voltage Uin IEC/EN V 690 OUL/CSA V 600 OUL/CSA A 15 OUL/CSA A 10 OUL/CSA OUL/CSA A 10 OUL/CSA OUL/	Mounting form				enclosure with
Conventional free air thermal current ith					
Rated impulse withstand voltage Ulimp	Rated insulation voltag	je Ui			
Rated impulse withstand voltage Ulmp					
Conventional free air thermal current Ith			UL/CSA		
IEC/EN A 16 15 15 15 16 16 17 17 17 18 18 18 18 18	·	·		kV	6
Rated operational voltage V	Conventional free air th	nermal current Ith	IEO/EN	^	4.0
Rated operational voltage					
Rated operational impulse voltage Rated operational impulse voltage Rated operational impulse size for short-circuit protection In (gG) 10kA	Pated operational volte	200	UL/CSA		
Maximum fuse size for short-circuit protection In (gG)					
10kA A 16 15kA A 10 15kA A 10 10kA 15kA A 10 10kA				K V	
Table Tabl	Maximum rase size for	short choult protection in (ge)	10kA	А	16
Rated short time current Icw 1s					
Rated short time current lew 1s A 200 Conductivity 10/5 mA/V AC1/AC21A A 16 AC15 110V A 10 220/230V A 8 8 380/400V A 1.5 Rated operational power in AC Three-phase AC-3 Single-phase AC-3 220/230V kW 2.5 Single-phase AC-3 110V kW 0.8 220/230V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 3.3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC23A 220/230V kW 5.5 Single-phase AC23A 110V kW 5.5 Single-phase AC23A 110V kW 0.8 AC20/230V kW 1.7					
Conductivity	Rated short time curre	nt Icw			
A			1s	Α	200
AC1/AC21A AC15 T110V A 10 220/230V A 4 380/400V A 4 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 Example Phase AC-3 Single-phase AC-3 Three-phase AC-3 Three-phase AC-3 Single-phase AC-3 Three-phase AC23A Single-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A Three-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A Three-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A	Conductivity				10/5 mA/V
A 16 AC15 110V A 10 220/230V A 8 380/400V A 4 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 Single-phase AC-3 Three-phase AC-3 110V kW 0.8 220/230V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 1.5 380/440V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 5.5 Single-phase AC23A 110V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 7.5 Single-phase AC23A	Operational current le	IEC/EN			
AC15 110V A 10 220/230V A 8 380/400V A 4 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 5.5 Single-phase AC23A 110V kW 5.5 Single-phase AC23A		AC1/AC21A			
110V				Α	16
220/230V		AC15			
Rated operational power in AC Three-phase AC-3					
660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 1.7					
Rated operational power in AC Three-phase AC-3 220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 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 0.8 220/230V kW 7.5 Single-phase AC23A					
Three-phase AC-3 220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 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 0.8 220/230V kW 7.5 Single-phase AC23A	Data Lance Caralan		660/690V	Α	1.5
220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 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 0.8 220/230V kW 1.7	Rated operational pow				
380/440V kW 4 500/690V kW 5.5 Single-phase AC-3 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 0.8 220/230V kW 1.7		Three-phase AC-3	220/2201/	L\\/	2.5
Single-phase AC-3 110V kW 0.8 220/230V kW 1.5 380/440V kW 2.2 220/230V kW 3 380/440V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 0.8 220/230V kW 1.7					
Single-phase AC-3 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 0.8 220/230V kW 1.7					
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 0.8 220/230V kW 1.7		Single-phase AC-3	000,0001		
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 0.8 220/230V kW 1.7			110V	kW	0.8
Three-phase AC23A 220/230V kW 3 380/440V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 1.7					
220/230V kW 3 380/440V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 1.7			380/440V	kW	2.2
380/440V kW 5.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 1.7		Three-phase AC23A			
500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 1.7					
Single-phase AC23A 110V kW 0.8 220/230V kW 1.7					
110V kW 0.8 220/230V kW 1.7			500/690V	kW	7.5
220/230V kW 1.7		Single-phase AC23A			0.0
380/440V KVV 3					
			300/4407	κVV	J

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Rated operational c				
	DC21A			
		48V	Α	12
		60V	A	12
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)		_	
		24V	Α	10 (1)
		48V	Α	10 (2)
		60V	Α	10 (3)
		110V	Α	5 (3)
		220V	Α	5 (4)
	DC13		_	
		24V	Α	12
		48V	Α	10
		60V	Α	8
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Fightening torque fo	or 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	mm²	0.5
		Max	mm²	2.5
	Conductor size (IEC) - Rigid cable			
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	3x10 ⁶
JL technical data				
Motor power for dire	ect-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

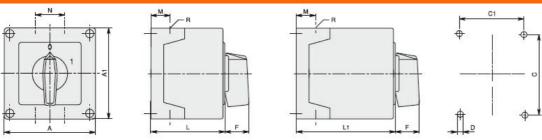
ENERGY AND AUTOMATION

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Resistance & Protection

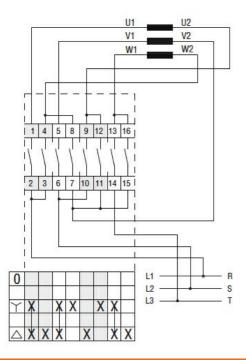
Frontal IP degree IP65
Terminals IP degree IP00

Dimensions



Series	Enclosure size	Number o	f elements		Dimensions							Cable	Protection		
Series		L	L1	Α	A1	C	C1	D	F	M	N	L	L1	entry	Protection degree
7GN12	75x75	1-2	3 - 4												
7GN20	1	1-2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN25		1	2-3												
7GN12	90x90	1-3	4 - 6												
7GN20		1-3	4 - 6	0.000	0.000					200000					
7GN25	1	1-2	3 - 4	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN32	1	1-2	3 - 4	******	(30)			10000							
7GN40		1	2-3												
7GN12	110x110	1-4	5 - 8												
7GN20		1 - 4	5 - 8												
7GN25]	1-3	4 - 5	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN32		1-3	4 - 5	110	110	90.4	0.5	4.5	32	21	39.5	00.0	119.5	417421	11-00
7GN40	1	1-2	3-5												
7GN63		1-2	3 - 4												
7GN32	125x175	1 - 3	4 - 5												
7GN40	213-12700-0-7-20	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21	IP65
7GN63		1 - 2	3 - 4	125	1/5	146	112	5.5	32	21	- 00	04.3	110.3	2xPG11	IPOS
7GN125		1	2												
7GN32	180x254	1 - 5	6 - 8												
7GN40		1 - 4	5 - 7	180	254	120	190	5.5	32	35	76	121	175	4xPG29	IP65
7GN63]	1 - 3	4 - 6	100	204	120	190	5.5	32	35	10	121	1/5	2xPG11	11-00
7GN125		1 - 2	3 - 4												

Wiring diagrams



Certifications and compliance

Compliance



7GN1212P25

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IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

Certificates

EAC

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete