



ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product type designation 7GN20 General characteristics 12 - Star-delita motor starter switch. N° of elements 4 Mounting form Contact characteristics Rated insulation voltage Ui IEC/EN V 690 UL/CSA V 600 Rated insulation voltage Uimp LEC/EN X 600 Rated insulation voltage Uimp LEC/EN X 20 Conventional free air thermal current lth IEC/EN X 20 Rated operational voltage V 480 Rated operational impulse voltage N 4 Maximum fuse size for short-circuit protection in (gG) 10kA A 20 10kA A 16 25kA A 16 Rated short time current lcw A 20 Conductivity Operational current le IEC/EN A 20 AC16 AC16 AC16 Three-phase AC-3 In Joy kW 0.8	Product designation				Rotary cam switches
Switching diagram 12 - Start-delta motor starter switch 12 - Start-delta motor starter switch 12 - Start-delta motor starter switch 13 - Start-delta switch 14 - Starter switch 14 - Starter switch 14 - Starter switch 15 - Sta	Product type designati	on			
Switching diagram molor starter switch N° of elements 4 Mounting form O - Rear mounting with black handle black handle Contact characteristics Rated insulation voltage Uimp IEC/EN V 600 Rated impulse withstand voltage Uimp IEC/EN A 20 Conventional free air thermal current Ith UL/CSA A 20 Rated operational voltage V 480 Rated operational impulse voltage V 480 Rated operational impulse voltage 10kA A 20 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 Rated short time current Icw 1s A 250 Conductivity 1s A 250 Conductivity A 16 AC1/AC21A A 10 AC16 110V A 10 AC20/230V A 8 6 8 AC16 220/230V KW 5.5 Rated operational power in AC 220/230V KW 5.5 Three-phase AC-3 380/440V KW 5.5 Single-phase AC-3 220/230V KW 5.5 Single-phase AC-3 220/230V KW 5.5 Three-phase AC23A 220/230V KW 5.5 Single-phas					
Mounting form C - Rear mounting with black handle Contact characteristics Rated insulation voltage Ui IEC/EN U/CSA V 600 V 600 Rated impulse withstand voltage Uimp kV 6 6 Conventional free air thermal current Ith IEC/EN A 20 20 Rated operational voltage kV 4 4 Rated operational impulse voltage kV 4 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 15kA A 16 Rated short time current Icw 1s A 250 10/5 mA/V Conductivity 1s A 250 10/5 mA/V Operational current Ie IEC/EN AC1/AC21A A 10 220/230V A 8 8 AC1/AC21A A 20 220/230V A 8 8 380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 5.5 500/690V kW 5.5 5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3.3 380/440V kW 3.3 380/440V kW 3.3 380/440V kW 7.5 500/690V kW 7.5 <t< td=""><td>Switching diagram</td><td></td><td></td><td></td><td>motor starter</td></t<>	Switching diagram				motor starter
Mounting form Mounting form Mounting with black handle	N° of elements				
Rated insulation voltage Uinp	Mounting form				mounting with
Conventional free air thermal current ith	Contact characteristics	;			
Rated impulse withstand voltage Ulimp	Rated insulation voltag	e Ui			
Rated impulse withstand voltage Ulmp			IEC/EN	V	690
Conventional free air thermal current Ith			UL/CSA	V	600
IEC/EN A 20	i			kV	6
Rated operational voltage V V V V V V V V V	Conventional free air th	nermal current Ith			
Rated operational voltage				Α	
Rated operational impulse voltage Rated operational impulse voltage Rated operational impulse size for short-circuit protection In (gG) 10kA			UL/CSA		
Maximum fuse size for short-circuit protection In (gG)					
10kA	Rated operational imp	ulse voltage		kV	4
Table Tabl	Maximum fuse size for	short-circuit protection In (gG)			
Rated short time current Icw 1s			10kA	Α	20
Rated short time current low			15kA	Α	16
Table A 250 10/5 mA/V			25kA	Α	16
Conductivity	Rated short time curre	nt Icw			
A			1s	Α	250
AC1/AC21A AC15 T110V A 10 220/230V A 6 380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 Single-phase AC-3 Three-phase AC-3 Single-phase AC-3 Three-phase AC-3 Single-phase AC-3 Three-phase AC23A Three-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A Three-phase AC23A Single-phase AC23A Three-phase AC23A	Conductivity				10/5 mA/V
AC15 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 Three-phase AC23A 220/230V kW 5.5 Single-phase AC23A Three-phase AC23A 110V kW 7.5 500/690V kW 7.5 500/690V kW 7.5 Single-phase AC23A	Operational current le	IEC/EN			
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 Three-phase AC23A 220/230V kW 5.5 Single-phase AC23A 110V kW 7.5 500/690V kW 7.5 500/690V kW 7.5 Single-phase AC23A		AC1/AC21A			
110V				Α	20
220/230V		AC15			_
Rated operational power in AC Three-phase AC-3			110V	Α	10
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 0.8 220/230V kW 2.5			220/230V	Α	8
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 5.5 Single-phase AC23A 220/230V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 5.3 110V kW 7.5 110V kW 0.8			380/400V	Α	6
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 7.5 500/690V kW 7.5			660/690V	Α	1.5
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 5 220/230V kW 5 220/230V kW 7.5	Rated operational pow	er in AC			
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 5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 2.2		Three-phase AC-3			
500/690V kW 5.5			220/230V	kW	3
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 0.8 220/230V kW 2.5			380/440V	kW	5.5
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 0.8 220/230V kW 2.5			500/690V	kW	5.5
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		Single-phase AC-3			
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				kW	
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			220/230V	kW	2.2
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
380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 2.5		Three-phase AC23A			
500/690V kW 7.5 Single-phase AC23A 110V kW 0.8 220/230V kW 2.5					
Single-phase AC23A 110V kW 0.8 220/230V kW 2.5					
110V kW 0.8 220/230V kW 2.5			500/690V	kW	7.5
220/230V kW 2.5		Single-phase AC23A			
				kW	
380/440V kW 3.7			220/230V	kW	2.5
			380/440V	kW	3.7



ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Rated operational o				
	DC21A	40)/		0.0
		48V	A	20
		60V	A	20
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)			
		24V	Α	20 (1)
		48V	Α	20 (2)
		60V	Α	20 (3)
		110V	Α	10 (3)
		220V	Α	8 (4)
	DC13			
		24V	Α	20
		48V	Α	16
		60V	Α	12
		110V	Α	1
		220V	A	0.4
		440V	A	0.15
Power dissipation		1100	W	0.8
Mechanical features	s		**	3.5
Terminals screw				M3
Fightening torque for	or terminals max		Nm	0.5
Conductor size	or terriminale max			0.0
3011000101 3120	AWG - Rigid cable			
	AWO Rigid cable	min	AWG	20
		Max	AWG	12
	AWG - Flexible cable	IVIAX	AVVG	12
	AVVG - Flexible Cable		A1A/O	00
		min	AWG	20
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Max	AWG	14
	Conductor size (IEC) - Flexible cable		2	0.5
		min	mm²	0.5
	-	Max	mm²	2.5
	Conductor size (IEC) - Rigid cable			
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	5x10 ⁶
JL technical data				
Motor power for dire	ect-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				
porataro	Operating temperature			
	Sporating temperature	min	°C	-25
		max	°C	+55
	Storago tomporaturo	IIIax		100
	Storage temperature			

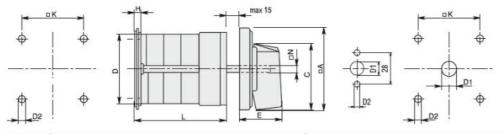
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min	°C	-40
max	°C	+70

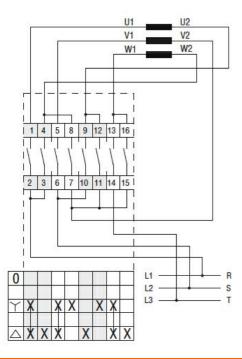
Resistance & Protection		
Frontal IP degree	IP40	
Terminals IP degree	IP00	

Dimensions



Series	Dimensions				L Number of elements															
Series	□A	С	ØD	ØD2	Е	Н	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	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



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Certificates		
	cCSAus	
	EAC	
	UL	
ETIM classificati	on	
ETIM 8.0		EC001029 - Selector switch, complete