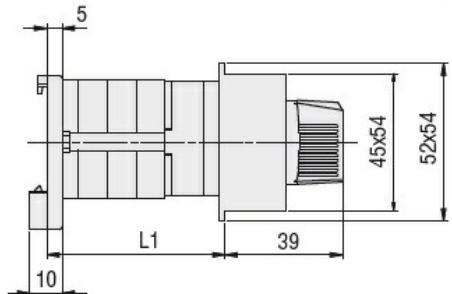


Product designation	Rotary cam switches	
Product type designation	7GN20	
General characteristics		
Switching diagram	12 - Star-delta motor starter switch	
N° of elements	4	
Mounting form	O48 - Modular service cover for 35mm din rail mounting with black handle	
Contact characteristics		
Rated insulation 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 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 le 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	

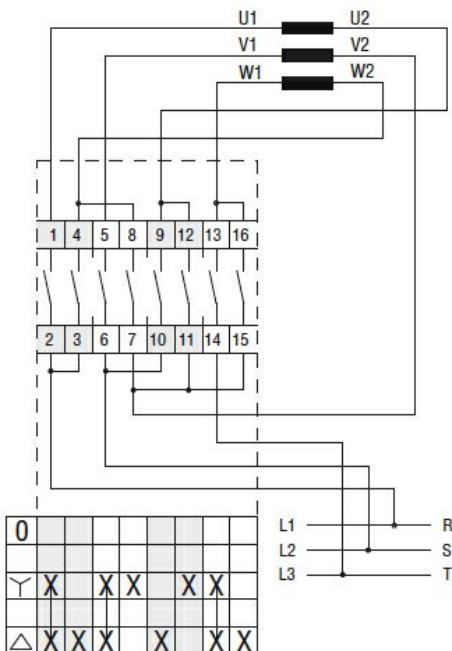
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	20 (1)
	48V	A	20 (2)
	60V	A	20 (3)
	110V	A	10 (3)
	220V	A	8 (4)
DC13			
	24V	A	20
	48V	A	16
	60V	A	12
	110V	A	1
	220V	A	0.4
	440V	A	0.15
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 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	5x10 ⁶
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			
	min	°C	-25

	max	°C	+55
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree	IP40		
Terminals IP degree	IP00		
Dimensions			



Series	L1		
	1	2	3
7GN12	38.1	47.8	57.5
7GN20	38.1	47.8	57.5
7GN25	42.5	56.1	69.7

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

Certificates

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete