

General characteristics

Switching diagram	12 - Star-delta motor starter switch
N° of elements	4
Mounting form	U47 - Snap on front mounting with black handle for hole diam. 22mm finxing

Contact characteristics

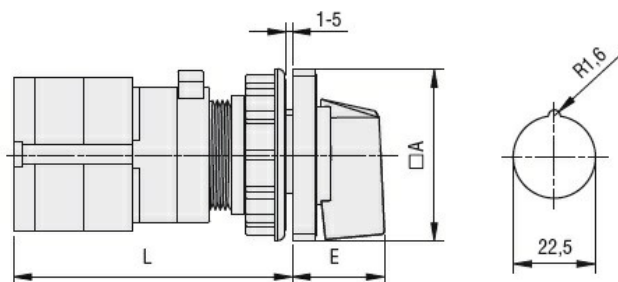
Rated insulation voltage Ui	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN	A	16
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA	A	16
	15kA	A	10
	25kA	A	10
Rated short time current Icw	1s	kA	200
Conductivity			10/5 mA/V
Operational current Ie IEC/EN	AC1/AC21A		
		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		
	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
Rated operational power in AC	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
	380/440V	kW	3
	Rated operational current in DC		
	DC21A		

	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
DC13			
	24V	A	12
	48V	A	10
	60V	A	8
	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	3x10 ⁶
UL technical data			
Motor power for direct-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
Resistance & Protection			
Frontal IP degree			IP40

Terminals IP degree

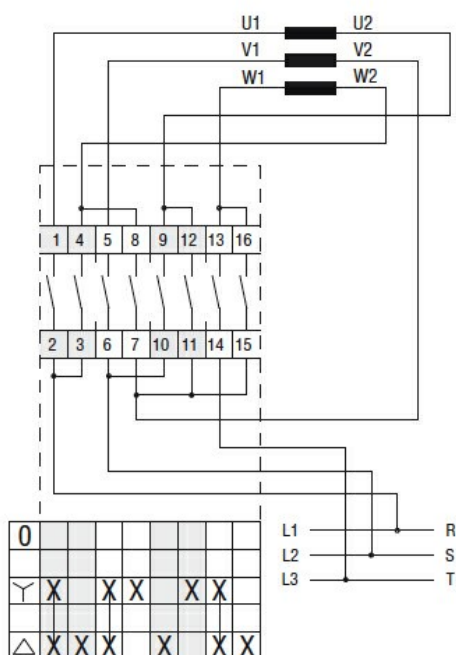
IP00

Dimensions



Series	Dimensions		L			
	□A	E	1	2	3...8	
7GN12	48	26.5	58	67.7	77.4	125.9
7GN20	48	26.5	58	67.7	77.4	125.9
7GN25	48	26.5	62.4	76	89.6	157.6

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