





Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency min max IEC Conventional free air thermal current lth Operational current le AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440∨ ≤55°C) AC-4 (400∨) Rated operational power AC-3 (T≤55°C) 230∨ 400∨ 415∨ 440∨ 500∨ 690∨ Rated operational power AC-1 (T≤40°C) EXAMPLE AC-1 (T≤40°C) 230V 400∨ 690∨ Rated operational power AC-1 (T≤40°C) EXAMPLE AC-	Nr. V kV Hz Hz A A A A A A A	3 690 6 25 400 32 32 26 23 25 10
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency min max IEC Conventional free air thermal current Ith Operational current Ie AC-1 (≤40°C) AC-1 (≤55°C) AC-3 (≤440V ≤55°C) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series	V kV Hz Hz A A A A A KW	690 6 25 400 32 32 26 23 25 10
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency min max IEC Conventional free air thermal current Ith Operational current Ie AC-1 (≤40°C) AC-1 (≤55°C) AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	V kV Hz Hz A A A A A KW	690 6 25 400 32 32 26 23 25 10
Rated impulse withstand voltage Uimp Operational frequency min max IEC Conventional free air thermal current Ith Operational current Ie AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kV Hz Hz A A A A A KW	6 25 400 32 32 26 23 25 10
Operational frequency min max IEC Conventional free air thermal current Ith AC-1 (≤40°C) AC-1 (≤55°C) AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	Hz Hz A A A A A	25 400 32 32 26 23 25 10
Min max	A A A A A KW	32 32 26 23 25 10
EC Conventional free air thermal current Ith Operational current le	A A A A A KW	32 32 26 23 25 10
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Operational current le AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	A A A A	32 26 23 25 10
AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C)	A A A A	26 23 25 10
Rated operational power AC-3 (T \leq 55°C) Rated operational power AC-1 (T \leq 40°C) Rated operational power AC-1 (T \leq 40°C) Rated operational power AC-1 (T \leq 40°C) 1230V 440V 500V 690V IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series	A A A A	26 23 25 10
Rated operational power AC-3 (T \leq 55°C) Rated operational power AC-3 (T \leq 55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T \leq 40°C) 230V 400V Rated operational power AC-1 (T \leq 40°C)	A A A	23 25 10
AC-3 (≤440V ≤55°C) AC-4 (400V) Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V	A A kW	25 10
Rated operational power AC-3 (T≤55°C) 230V 400V 415V 415V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	A kW	10
Rated operational power AC-3 (T≤55°C) 230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	
230V 400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		7
400V 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		7
## 415V 440V 500V 690V Rated operational power AC-1 (T≤40°C) ### 230V 400V 500V 690V EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	1 1 1 / /	
## 440V 500V 690V Rated operational power AC-1 (T≤40°C) ### 230V 400V 500V 690V EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	12.5
500V 690V Rated operational power AC-1 (T≤40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	13.4
Rated operational power AC-1 (T \leq 40°C) $\begin{array}{c} 230V\\ 400V\\ 500V\\ 690V \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series	kW	13.4
Rated operational power AC-1 (T \leq 40°C) 230V 400V 500V 690V IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series	kW	15
230V 400V 500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	11
$\frac{400 \text{V}}{500 \text{V}}$ Solv 690 V IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series		
500V 690V IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	12
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	21
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	kW	26
·	kW	36
≤24V		
	Α	20
48V	Α	18
75V	Α	18
110V	Α	6
220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
≤24V	Α	23
48V	Α	23
75V	Α	23
110V	Α	16
220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	- •	•
≤24V	Α	23
48V	A	23
75V	A	23
110V	A	18
1100	^	10





	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
The max carron to in Boo Boo with Ent = Tome with 1 poles in conce	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	2
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.0.4		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	Α	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
The max carrent to in 200 200 mai 2/(= 10me mai 1 perso in come	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V		_
Chart time allowable assurant for 40a (IEC/ENCO047.4)	220 V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	0 (150)		
	gG (IEC)	Α	50
	aM (IEC)	Α	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage			
	440V	Α	200
	500V	Α	184
	690V	Α	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals			
G G I I I I I I I I I I I I I I I I I I	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
		Ibin	1.5
Tightoning torque for coil terminal	max	וווטו	1.0
Tightening torque for coil terminal	t. ·	N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8





NA	- simultan a such a such a such la	max	Ibin	0.74
	s simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	may		10
	Flexible w/o lug conductor section	max		10
	r lexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1
		max	mm²	4
Dower terminal prote	ection according to IEC/EN 60529			IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	502
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact cha	racteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 c				A600 - P600
Operating current A	C15			
		230V	Α	3
		400V	A	1.9
	240	500V	A	1.4
Operating current De	J12	440)4		
	240	110V	Α	5.7
Operating current De	513	- A 1 1		
		24V	A	5.7
			Α	2.9
		48V		2.2
		60V	Α	2.3
		60V 110V	A A	1.25
		60V 110V 125V	A A A	1.25 1.1
		60V 110V 125V 220V	A A A	1.25 1.1 0.55
Operations		60V 110V 125V	A A A	1.25 1.1
•		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life		60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Electrical life		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data	110d according to EN/ISO 13489-1	60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	s10d according to EN/ISO 13489-1	60V 110V 125V 220V 600V	A A A A cycles	1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data		60V 110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data Performance level E	m	60V 110V 125V 220V 600V	A A A A cycles	1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000
Mechanical life Electrical life Safety related data Performance level E		60V 110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000

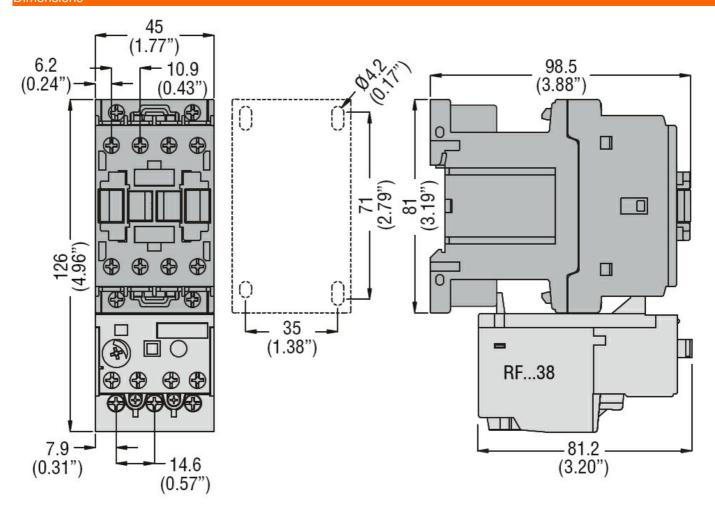




DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up				
			min	%Us	80
	duan aut		max	%Us	110
	drop-out		min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C		max	7003	- 10
, wordge com comouning			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			•
			min	ms	8
		Opening NO	max	ms	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC			
		-	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC	Closing NO			
		Closing NO	min	ms	75
			max	ms	91
		Opening NO			
		,	min	ms	15
			max	ms	19
UL technical data					
Full-load current (FLA)	for three-phase A	AC motor			
			at 480V	A	21
Violata al mana di anticolori			at 600V	Α	17
Yielded mechanical pe		ΛC motor			
	for single-phase	TO IIIUIUI	110/120V	HP	2
			230V	HP	3
	for three-phase	AC motor	200 V		
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contact	ts	۸ 🔾 ـ الم	17	600
			AC voltage AC current	V A	600 10
			AC Current	A	10

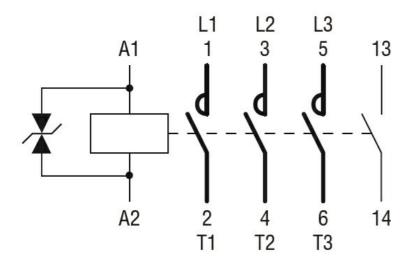


		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of au	xiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				



Wiring diagrams





Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching