



Product designation Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C) Rated operational power AC-1 (T≤40°C)	min max AC-1 (≤40°C)	Nr. V kV Hz Hz A	Power contacto BF18 3 690 6 25
Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	V kV Hz Hz	3 690 6 25
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	V kV Hz Hz	690 6 25
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	V kV Hz Hz	690 6 25
Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	kV Hz Hz	6 25
Operational frequency IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T<55°C)	max	Hz Hz	25
IEC Conventional free air thermal current Ith Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	Hz	
Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	max	Hz	
Operational current le AC-3 Rated operational power AC-3 (T≤55°C)	AC-1 (0°C)</td <td>Δ</td> <td>400</td>	Δ	400
AC-3 Rated operational power AC-3 (T≤55°C)	۵C-1 (<40°C)	~	32
Rated operational power AC-3 (T≤55°C)	AC_1 (0°C)</td <td></td> <td></td>		
Rated operational power AC-3 (T≤55°C)		А	32
Rated operational power AC-3 (T≤55°C)	AC-1 (≤55°C)	А	26
Rated operational power AC-3 (T≤55°C)	AC-1 (≤70°C)	А	23
	(≤440V ≤55°C)	А	18
	AC-4 (400V)	А	8.5
Rated operational power AC-1 (T≤40°C)			
Rated operational power AC-1 (T≤40°C)	230V	kW	4
Rated operational power AC-1 (T≤40°C)	400V	kW	7.5
Rated operational power AC-1 (T≤40°C)	415V	kW	9
Rated operational power AC-1 (T≤40°C)	440V	kW	9
Rated operational power AC-1 (T≤40°C)	500V	kW	10
Rated operational power AC-1 (T≤40°C)	690V	kW	10
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	<i>(</i> 0,1) <i>(</i>	•	4 7
	≤24V	A	17
	48V 75V	A	15
	110V	A A	15 6
	220V	A	0 _
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series	2200	~	
Eo max current le m Do r with Ert 2 mis with 2 poles in series	≤24V	А	20
	48V	A	20
	75V	A	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
		А	22
	≤24V	A	22
	≤24V 48V		
	≤24V 48V 75V	A	20

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	220V	А	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	A	20	
	110V	A	18	
	220V	A	13	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	2201	7.	10	
	≤24V	А	12	
	48V	A	12	
	48V 75V	A	11	
	110V	A		
			2	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			. –	
	≤24V	A	15	
	48V	A	13	
	75V	А	13	
	110V	А	8	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	12	
	220V	А	6	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series				
	≤24V	А	18	
	48V	A	18	
	75V	A	16	
	110V	A	13	
	220V	A	8	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	200	
Protection fuse		~	200	
FIOLECLIOITIUSE		٨	22	
	gG (IEC)	A	32	
	aM (IEC)	<u>A</u>	20	
Making capacity (RMS value)		А	180	
Breaking capacity at voltage				
	440V	А	144	
	500V	А	120	
	690V	Α	94	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	2.6	
	AC-3	W	0.8	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal	Пал			
	min	Nm	0.8	
		Nm		
	max		1	
	min	lbin	0.8	



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lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section mm² 1 min mm² 4 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 496 g Conductor section AWG/kcmil conductor section 10 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 5.7 **Operating current DC13** 24V А 5.7 48V А 2.9 60V A 2.3 110V А 1.25 125V А 1.1 220V А 0.55 600V 0.2 А Operations Mechanical life 20000000 cycles Electrical life 1600000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1600000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating

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1NC AUXILIARY CONTACT

DC rated control voltag	10			V	60
DC rated control voltage	je			V	00
De operating voltage	pick-up				
	plot up		min	%Us	70
			max	%Us	125
	drop-out			,	
			min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO	min	ms	8
			max	ms	o 24
		Opening NO	IIIdX	1113	27
			min	ms	10
			max	ms	20
		Closing NC			
		0	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			F 4
			min	ms	54 66
		Opening NO	max	ms	00
		Opening NO	min	ms	14
			max	ms	17
		Closing NC	max		
		0 -	min	ms	24
			max	ms	30
		Opening NC			
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA)	tor three-phase AC mo	otor			4.4
			at 480V	A	14
Violdod mochanical	rformanca		at 600V	A	17
Yielded mechanical pe	for single-phase AC r	motor			
	ior single-phase AC I		110/120V	HP	1
			230V	HP	3
	for three-phase AC m	notor	2001		<u> </u>
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15



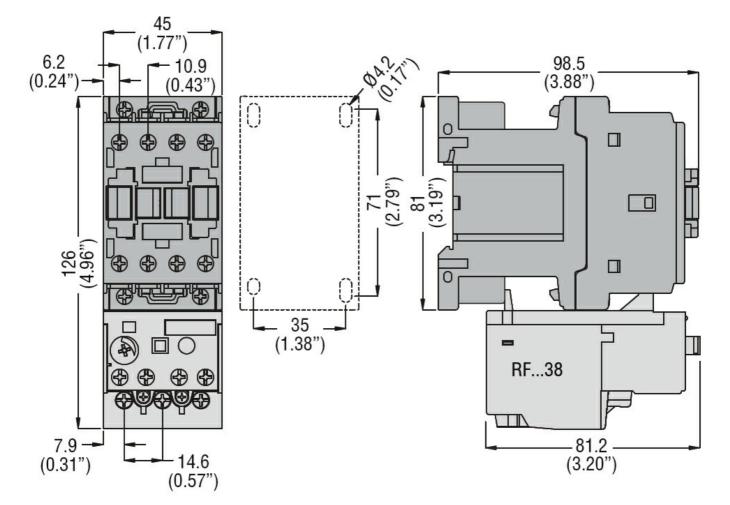
ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	A	1
Short-circuit protect	ion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	80
	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 & Protect	ction			
Pollution degree				3
Dimensions				

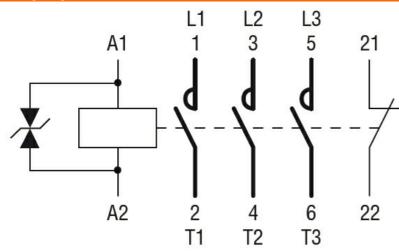
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Wiring diagrams



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
Cortificatos	

Certificates



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	CCC
	cULus
	EAC
sification	

ETIM 8.0

ETIM class

EC000066 -Power contactor, AC switching