



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT



Product designation Product type designation Contact tharacteristics Number of poles Rated insulation voltage U iEC/EN Rated insulation voltage Uimp Rated Conventional free air thermal current Ith Raced (\$40^{\circ}\$C) Rated operational power AC-3 (\$155^{\circ}\$C) Rated operational power AC-1 (\$40^{\circ}\$C) Rated operational power AC-3				***
Product type designation	Product designation			Power contactor
Contact characteristics Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 32 Operational current Ie AC-1 (≤40°C) A 32 AC-1 (≤55°C) A 26 AC-1 (≤55°C) A 26 AC-1 (≤55°C) A 28 AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 23 AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 25 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4	•			
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current Ith A 32 Operational current Ie AC-1 (≤40°C) A 32 AC-1 (555°C) A 26 AC-1 (570°C) A 23 AC-3 (≤440°V) A 8.5 AC-3 (540°V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 9 440V kW 9 440V kW 9 440V kW 9 440V kW 9 440V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 40V kW 21 500V kW 21 500V kW 21 500V kW<	,, ·			
Rated insulation voltage UirEC/EN V 690 Rated impulse withstand voltage Uirip kV 6 Operational frequency min Hz 25 imax Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (≤40°C) A 22 AC-1 (≤70°C) A 23 AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 440V kW 7.5 415V kW 9 440V kW 7.5 415V kW 9 440V kW 9 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 </td <td></td> <td></td> <td>Nr.</td> <td>3</td>			Nr.	3
Rated impulse withstand voltage Ulimp				
Operational frequency min max Hz hz Hz Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (≤40°C) A 32 AC-1 (≤55°C) A 26 AC-1 (≤70°C) A 23 AC-3 (≤4400 ≤55°C) A 18 AC-4 (4000V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 500V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 21 500V kW 21 500V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48 AR A 15 75V A 15 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 20 48 A 20 48 AR A 20 AR AR A 20 AR AR A 20 AR				
EC Conventional free air thermal current lth				
EC Conventional free air thermal current lth	oporational inequation	min	Hz	25
EC Conventional free air thermal current lth				
Operational current le AC-1 (≤40°C) A 32 AC-1 (≤55°C) A 26 AC-1 (≤70°C) A 23 AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤5°C) 230V kW 4 400V kW 9 440V kW 9 440V kW 9 500V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 15 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 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 524V A 20 48V A 20 75V A 20 48V A 22 75V A 20 48V A 22	IEC Conventional free air thermal current Ith			
AC-1 (≤40°C)				
AC-1 (≤55°C)	oporational outron to	AC-1 (<40°C)	Α	32
AC-1 (≤70°C) A 23 AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 500V kW 10 690V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 75V A 15 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 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				
AC-3 (≤440V ≤55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 550V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 15 75V A 15 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 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				
Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 500V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 75V A 15 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 20 48V A 20 110V A 13 220V A 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		, ,		
Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 500V kW 10 690V kW 10 690V kW 10 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 75V A 15 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 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		•		
230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 500V kW 10 690V kW 10 690V kW 10 690V kW 10 690V kW 21 500V kW 21 500V kW 36 690V kW 30 690V	Rated operational power AC-3 (T<55°C)	AO-4 (400V)		0.5
400V kW 7.5 415V kW 9 440V kW 9 440V kW 9 440V kW 10 690V kW 21 500V kW 21 500V kW 26 690V kW 36 690V	Trated operational power 70-0 (1200 0)	230\/	L \//	1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
A40V kW 9 500V kW 10 690V kW 12 400V kW 21 500V kW 26 690V kW 36 690V 40 690V 4				
Soov kW 10 690V kW 10 10 690V kW 12 400V kW 21 500V kW 26 690V kW 36				
Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36				
Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 75V A 15 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 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 ≤24V A 20 48V A 20 110V A 13 220V A 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series				
	Pated aparational power AC 1 /T<10°C)	090 V	KVV	10
	Rated operational power AC-1 (1540 C)	2201/	LAAA	10
S00V kW 26 690V kW 36				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
SEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V				
	150	6907	KVV	36
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40.437		4-
T5V A 15 110V A 6 220V A -				
110V A 6 220V A -				
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 20 48V A 20 75V A 20 110V A 13 220V A 1				
Section Sec				6
		220V	A	_
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $ \leq 24V \qquad A \qquad 22 \\ 48V \qquad A \qquad 22 \\ 75V \qquad A \qquad 20 $				
≤24V A 22 48V A 22 75V A 20		220V	Α	1
48V A 22 75V A 20	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
75V A 20			Α	22
		48V	Α	22
110V A 16		75V	Α	20
		110V	Α	16





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT

	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	8
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	/ \	<u> </u>
1.25 max sarront to in 2.55 2.50 with ETC = 10115 with 4 polos in series	≤24V	Α	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		П	200
	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	aivi (IEC)	A	180
Breaking capacity at voltage		А	100
breaking capacity at voltage	440\/	۸	144
	440V 500V	A A	144
	690V		120
Posistance per pole (average value)	0907	A mO	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	حلدا	14/	2.6
	Ith	W	2.6
Tightoning torque for torminals	AC-3	W	0.8
Tightening torque for terminals	!	N I.a.	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
This control is the second of	max	Ibin	1.5
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT

		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	_		
		min	mm²	1
	= -	max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
	Florible with insulated and deliver and house a setting	max	mm²	4
	Flexible with insulated spade lug conductor section			4
		min	mm²	1
		max	mm²	IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				property wired
Operating position				
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	368
Conductor section			9	300
Conductor Section	AWG/kcmil conductor section			
	AVVG/KCITIII COTIGUCIOI SECTION	max		10
Auxiliary contact char	acteristics	Hax		10
Thermal current Ith	4000000		Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC				
3		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	1.25
		125V	Α	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT

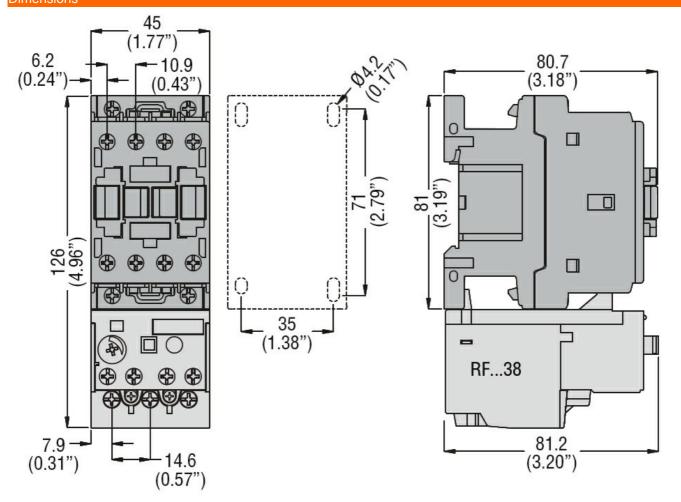
Rated AC voltage at 6	0Hz			V	575
AC operating voltage					
	of 60Hz coil powered a				
		pick-up			
			min	%Us	80
		_	max	%Us	110
		drop-out	_		
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 60Hz coil powered a	t 60Hz	:	\	75
			in-rush	VA	75
Disabation of baldion	<00°0 F011-		holding	VA	9
Dissipation at holding	≤20°C 50HZ			W	2.5
Max cycles frequency				ما/م مامم	2000
Mechanical operation				cycles/h	3600
Operating times	ontrol				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	m 0	0
			min	ms ms	8 24
		Opening NO	max	1115	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	IIIax	1113	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	Пах	1110	20
		oponing ito	min	ms	7
			max	ms	18
UL technical data					
) for three-phase AC moto	or			
,	•		at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	erformance				
·	for single-phase AC mo	otor			
	9 ,		110/120V	HP	1
			230V	HP	3
	for three-phase AC mo	tor			_
	•		200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Short-circuit protection	n fuse, 600V			· <u> </u>	
	High fault				





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT

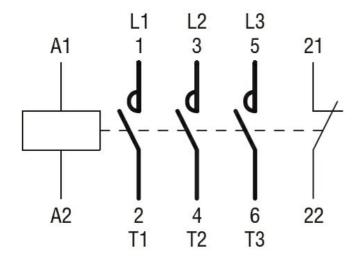
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standard	d fault			
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of auxiliary contact	ts according to UL			A600 - P600
Ambient conditions				
Temperature				
Operatir	ng temperature			
		min	°C	-50
		max	°C	70
Storage	temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT



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

BF1801A57560

EC000066 -Power contactor, AC switching