



BF2510A23060

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 230VAC, 1NO AUXILIARY CONTACT



Product designation Power contactor Product type designation BF25 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 32 Α Operational current le AC-1 (≤40°C) Α 32 AC-1 (≤55°C) Α 26 AC-1 (≤70°C) Α 23 AC-3 (≤440V ≤55°C) Α 25 AC-4 (400V) 10 Rated operational power AC-3 (T≤55°C) 7 230V kW 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 11 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 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 23 Α 110V Α 16 220V Α 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 23 Α 23 48V Α 75V Α 23 110V 18





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	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				
	≤24V	Α	15	
	48V	Α	13	
	75V	Α	13	
	110V	Α	2	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	Α	18	
	48V	Α	18	
	75V	A	16	
	110V	Α	10	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V			
TEC max current le in DC3-DC3 with L/N = 13ms with 3 poles in series	≤24V	۸	22	
	≤24 V 48 V	A		
		A	22	
	75V	A	18	
	110V	A	15	
	220V	Α	8	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	≤24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200	
Protection fuse				
	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	70 0	• •	1.0	
righterining torque for terminals	min	Nm	1.5	
	min			
	max	Nm Ibin	1.8	
	min	lbin	1.1	
Tightonian tourne for sail towning!	max	lbin	1.5	
Tightening torque for coil terminal			0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	





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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMO #4			
	AWG/Kcmil			4.0
	Florible wie land on distance atting	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	1 6
	Flexible c/w lug conductor section	IIIax	111111	· ·
	r lexible 6/W lug corrudetor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			<u> </u>
		min	mm²	1
		max	mm²	4
Dower terminal prote	otion according to ICC/CN 60520			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	352
Conductor section			9	332
Conductor Section	AWG/kcmil conductor section			
	AWV S/ROTTIII OOTIGGOOT SCOTIOTI	max		10
Auxiliary contact char	acteristics	THOX		10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
,	oignation			
Operating current AC	-			
	-	230V	Α	3
	-	230V 400V	A A	3 1.9
Operating current AC	15			
	15	400V 500V	Α	1.9
Operating current AC	15	400V	Α	1.9
Operating current AC	15	400V 500V 110V	A A	1.9 1.4 5.7
Operating current AC	15	400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V	A A A A	1.9 1.4 5.7 5.7 2.9
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 5.7 5.7 2.9 2.3
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 12000000 20000000 yes
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000





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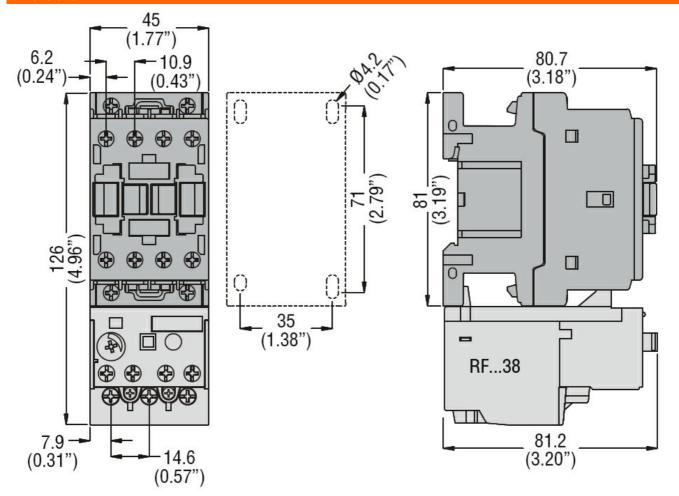
Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO Opening NO Closing NC Closing NC UL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200. 222. 460. 575. General USE Contactor Auxiliary contacts AC vo		V	230
pick-up drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in h Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC Vielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200. 220. 460. 575. General USE Contactor Auxiliary contacts AC ve			
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in h Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC It technical data Full-load current (FLA) for three-phase AC motor at a			
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in hi Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Disperating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at fielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200. 220. 460. 575. General USE Contactor Auxiliary contacts AC of			
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in hi Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200. 220. 460. 575. General USE Contactor Auxiliary contacts AC of	min		80
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in hi Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Disperating times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at fielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200. 220. 460. 575. General USE Contactor Auxiliary contacts AC of	max	%Us	110
of 60Hz coil powered at 60Hz in http://dx.com/dx.			
of 60Hz coil powered at 60Hz in http://dx.com/destrequency// Max cycles frequency// Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC It technical data Full-load current (FLA) for three-phase AC motor at a	min		20
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Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Ut technical data Full-load current (FLA) for three-phase AC motor at at At it is in three-phase AC motor for single-phase AC motor 110. for three-phase AC motor 200. 222. 460. 575. General USE Contactor Auxiliary contacts AC of	in ruch	١/٨	75
Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Descriptions Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at' for three-phase AC motor 110, for three-phase AC motor Contactor AC contactor AUxiliary contacts AC voices AC	in-rush		75 0
Max cycles frequency Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor 110, for three-phase AC motor 200, 220, 460, 575. General USE Contactor AC co Auxiliary contacts AC vo	nolding	W	2.5
Mechanical operation Departing times Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor 110. for three-phase AC motor 200, 220, 460, 575. General USE Contactor AC co Auxiliary contacts AC vo		VV	2.5
Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at fielded mechanical performance for single-phase AC motor 110, for three-phase AC motor 200, 220, 460, 575, General USE Contactor AC c Auxiliary contacts AC vo		cycles/h	3600
Average time for Us control in AC Closing NO Opening NO Closing NC Opening NC Opening NC Userpasse AC motor at a		Cycles/II	3000
in AC Closing NO Opening NO Closing NC Opening NC Opening NC UL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200, 220, 460, 575, General USE Contactor Auxiliary contacts AC vo			
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Opening NC Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at vielded mechanical performance for single-phase AC motor for three-phase AC motor 2000, 2200, 220, 460, 575, General USE Contactor AC contactor AC contactor AC contactor			
Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor AC contactor	min	ms	8
Closing NC Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor AC contactor	max		24
Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at at at //ielded mechanical performance for single-phase AC motor 110/ for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Ac contactor			
Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at at at //ielded mechanical performance for single-phase AC motor 110/ for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Ac contactor	min	ms	10
Opening NC JL technical data Full-load current (FLA) for three-phase AC motor at at at at //ielded mechanical performance for single-phase AC motor 110/ for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Ac contactor	max	ms	20
JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Auxiliary contacts AC w			
JL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Auxiliary contacts AC w	min	ms	14
UL technical data Full-load current (FLA) for three-phase AC motor at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Auxiliary contacts AC w	max	ms	28
Full-load current (FLA) for three-phase AC motor at at at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Ac contactor Auxiliary contacts AC voice AC words			
Full-load current (FLA) for three-phase AC motor at at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Ac contactor Auxiliary contacts AC voice Action	min		7
Full-load current (FLA) for three-phase AC motor at at at Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Ac contactor Auxiliary contacts AC voice Action	max	ms	18
Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Auxiliary contacts AC vo			
Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor Auxiliary contacts AC vo	+ 400\/	۸	24
Yielded mechanical performance for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Auxiliary contacts AC vo	t 480V		21 17
for single-phase AC motor for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor AUxiliary contacts AC vo	t 600V	Α	17
for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Auxiliary contacts AC vo			
for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Auxiliary contacts AC vo)/120V	HP	2
for three-phase AC motor 200/ 220/ 460/ 575/ General USE Contactor AC contactor Auxiliary contacts AC vo	230V		3
200/ 220/ 460/ 575/ General USE Contactor AC contacts AC verified as AC verifi	2001		
220/ 460/ 575/ General USE Contactor AC contacts AC volume and the second seco)/208V	HP	7.5
General USE Contactor AC contacts AC volume of the contact of t)/230V		7.5
General USE Contactor AC contacts)/480V		15
Contactor AC c Auxiliary contacts AC v	5/600V	HP	15
Auxiliary contacts AC v			
Auxiliary contacts AC vo			
AC vo	current	Α	32
AC vo			
•	oltage/	V	600
AC c	current		10
DC vo	oltage/	V	250
	current	Α	1
Short-circuit protection fuse, 600V			





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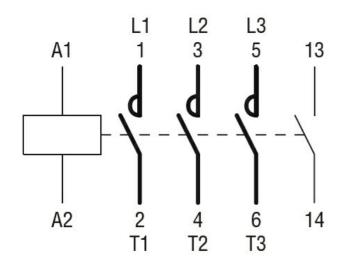
	Short circuit current	kA	100
		A	60
	Fuse rating	A	
	Fuse class		
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	100
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature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



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 230VAC, 1NO 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

EC000066 -Power contactor, AC switching