





Product designation Product type designation			Power contactor BF25
Contact characteristics			DI 23
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		100	
oporational modulonoy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	тах	A	32
Operational current le		- / (- UL
oporational carron le	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	A	23
Δ	C-3 (≤440V ≤55°C)	A	25
	AC-4 (400V)	A	10
Rated operational power AC-3 (T≤55°C)	710 4 (4001)		10
Trailed operational power 710 o (1=00 o)	230V	kW	7
	400V	kW	, 12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15.4
	690V	kW	11
Rated operational power AC-1 (T≤40°C)	030 V	IXVV	
Nated operational power AO-1 (1=40 O)	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	030 V	KVV	30
TEC max current le in DCT with E/N = mis with 1 poles in series	≤24V	Α	20
	48V	A	18
	75V	A	18
	110V	A	6
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V		_
TEC Max current le in DCT with E/N = 1115 with 2 poles in series	<24\/	۸	22
	≤24V 48V	A A	23 23
	46 V 75 V	A	23
	75V 110V	A	23 16
	220V	A	16
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2207		ı
The max current le in DCT with $L/R \ge 100$ s with 3 poles in series	≤24V	۸	22
	≥/4V	Α	23
		٨	22
	48V	A	23
		A A A	23 23 18





	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 carrent 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 surround in 200 200 mai 2/10 - 10 me mai 1 perse in comes	≤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



		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			40
	Clavible w/s has possible as ation	max		10
	Flexible w/o lug conductor section	min	mm²	1
		min	mm² mm²	1 6
	Flexible c/w lug conductor section	max	111111	0
	r lexible 6/W rug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			•
	r ioxidia mitrimodiated opado rag contactor cociteri	min	mm²	1
		max	mm²	4
	('			IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
A 112		max		10
IALIVIIIary contact chars	acteristics			
Auxiliary contact chara	20101131103		^	40
Thermal current Ith			Α	10 4600 B600
Thermal current Ith IEC/EN 60947-5-1 de	signation		Α	10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de	signation	2201/		A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de	signation	230V 400V	A	A600 - P600 3
Thermal current Ith IEC/EN 60947-5-1 de	signation	400V	A A	A600 - P600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15		A	A600 - P600 3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V	A A A	3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V	A A	A600 - P600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V	A A A	3 1.9 1.4 5.7
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V 24V	A A A	A600 - P600 3 1.9 1.4 5.7
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V	A A A	3 1.9 1.4 5.7
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V 24V 48V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V 24V 48V 60V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3
Thermal current Ith IEC/EN 60947-5-1 de	signation 15	400V 500V 110V 24V 48V 60V 110V	A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	signation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	signation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	signation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 15 12 13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 12000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data Performance level B1	signation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 12000000 12000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	signation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 12000000 12000000 200000000 yes
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	signation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 12000000 12000000



A A	t 50/60Hz		V	110
AC operating voltag				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		min	%Us %Us	80 110
	drop-out	max	%US	110
	arop out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	, pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
C average coil cor				
	of 50/60Hz coil powered at 50Hz			7-
		in-rush	VA	75
	of 50/0011- oo!!	holding	VA	9
	of 50/60Hz coil powered at 60Hz	علميسيما:	١/٨	70
		in-rush holding	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	riolality		0.5
	of oor 12 con powered at oor 12	in-rush	VA	75
		holding	VA	9
Dissipation at holdin	 ng ≤20°C 50Hz	9	W	2.5
Max cycles frequenc				
Mechanical operatio			cycles/h	3600
Operating times				
Average time for Us	control			
	5 COTILIOI			
	in AC			
	in AC	min	ms	8
	in AC Closing NO	min max	ms ms	8 24
	in AC	max	ms	24
	in AC Closing NO	max min	ms ms	10
	in AC Closing NO Opening NO	max	ms	24
	in AC Closing NO	max min max	ms ms ms	241020
	in AC Closing NO Opening NO	max min max min	ms ms ms	24102014
	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms	241020
	in AC Closing NO Opening NO	max min max min	ms ms ms	24102014
	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	24 10 20 14 28
JL technical data	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18
ull-load current (FL	in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max	ms ms ms ms ms	24 10 20 14 28 7 18
JL technical data Full-load current (FL rielded mechanical	in AC Closing NO Opening NO Closing NC Opening NC Opening NC LA) for three-phase AC motor	max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18
Full-load current (FL	in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	24 10 20 14 28 7 18 21 17
ull-load current (FL	in AC Closing NO Opening NO Closing NC Opening NC Opening NC LA) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	24 10 20 14 28 7 18 21 17
Full-load current (FL	in AC Closing NO Opening NO Closing NC Opening NC Opening NC LA) for three-phase AC motor performance for single-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	24 10 20 14 28 7 18 21 17
ull-load current (FL	in AC Closing NO Opening NO Closing NC Opening NC Opening NC LA) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	24 10 20 14 28 7 18 21 17

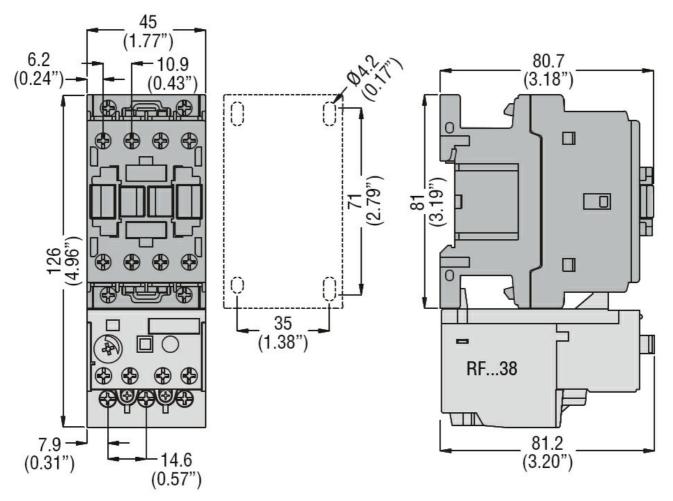




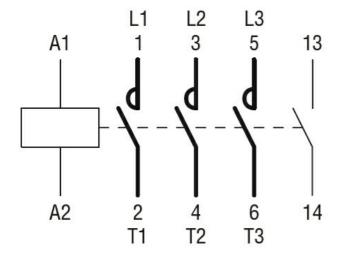
220/230V					
S75/600V			220/230V	HP	7.5
Contactor			460/480V	HP	15
Contactor			575/600V	HP	15
AC current	General USE				
Auxiliary contacts AC voltage		Contactor			
AC voltage			AC current	Α	32
AC current A 10 DC voltage V 250 DC current A 1 DC voltage DC current A 1 Short-circuit current KA 100 Fuse rating A 60 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 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		Auxiliary contacts			
DC voltage V 250 DC current		•	AC voltage	V	600
DC current			AC current	Α	10
Short-circuit protection fuse, 600V High fault Short circuit current Fuse rating A 60 Fuse class J Standard fault Short circuit current Fuse rating A 100 Fuse class J Standard fault Short circuit current Fuse rating A 100 A			DC voltage	V	250
High fault			DC current	Α	1
High fault	Short-circuit protect	tion fuse, 600V			
Fuse rating Fuse class					
Standard fault Short circuit current KA 5 Fuse rating A 100		· ·	Short circuit current	kA	100
Standard fault Short circuit current KA 5 Fuse rating A 100			Fuse rating	Α	60
Short circuit current Fuse rating Fuse rating A 100			Fuse class		J
Fuse rating		Standard fault			
Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Resistance & Protection Pollution degree			Short circuit current	kA	5
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			Fuse rating	Α	100
Temperature	Contact rating of au	ixiliary contacts according to UL			A600 - P600
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	Ambient conditions				
min min max °C -50 max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Temperature				
min min max °C -50 max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	·	Operating temperature			
Storage temperature min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection Storage temperature Pollution degree 3			min	°C	-50
min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3			max	°C	70
min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3		Storage temperature			
Max altitude m 3000 Resistance & Protection Pollution degree 3			min	°C	-60
Resistance & Protection Pollution degree 3			max	°C	80
Pollution degree 3	Max altitude			m	3000
	Resistance & Prote	ection			
	Pollution degree				3

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT



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



BF2510A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching