





Product designation Product type designation			Power contactor BF25
Contact characteristics			-
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
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)	Α	10
Rated operational power AC-3 (T≤55°C)			
	230V	kW	7
	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	A	23
	48V	A	23
	75V	A	23
	110V	A	16
IFC many asymment in in DC4 with 1/D < 4 with 0 1 ii	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40 A) (^	22
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	Α	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			
	≤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	Α	16
	110V	Α	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			_
	≤24V	Α	22
	48V	Α	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	220 V		
120 max out one to in 200 200 with 2/10 = 10mb with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	200
Protection fuse			200
1 100000011 1000	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)	aw (IZO)	A	250
Breaking capacity at voltage			200
	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	300 v	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
1 oner alsoipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70-3	V V	1.0
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.0
		lbin	1.5
Tightening torque for coil terminal	max	וווטו	1.0
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin	0.8



Name and a state of the state o	and the same at th	max	Ibin	0.74
Max number of wires simult	aneously connectable		Nr.	2
Conductor section	10 lV :1			
Avv	/G/Kcmil	may		10
	wible w/e lug conductor acction	max		10
FIE.	xible w/o lug conductor section	min	mm²	1
		max	mm²	6
Fla	xible c/w lug conductor section	max	111111	<u> </u>
110	Albie of Wildy confidence decition	min	mm²	1
		max	mm²	4
Fle	xible with insulated spade lug conductor section	max		•
	Auto Timi modulated operate rag contactor coolien	min	mm²	1
		max	mm²	4
	" IEO/EN 00500			IP20 when
Power terminal protection a	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				
AW	/G/kcmil conductor section			
		max		10
	STICS			
Thermal current Ith			A	10
Thermal current Ith IEC/EN 60947-5-1 designa			Α	10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 designa				A600 - P600
Thermal current Ith IEC/EN 60947-5-1 designa		230V	A	A600 - P600
Thermal current Ith IEC/EN 60947-5-1 designa		400V	A A	A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15			A	A600 - P600
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15		400V 500V	A A A	3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		400V	A A	A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		400V 500V	A A A	3 1.9 1.4 5.7
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		400V 500V 110V 24V	A A A	3 1.9 1.4 5.7
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		400V 500V 110V 24V 48V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		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 designa Operating current AC15 Operating current DC12		400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12		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 designa Operating current AC15 Operating current DC12		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12 Operating current DC13		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 designa Operating current AC15 Operating current DC12 Operating current DC13		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 designa Operating current AC15 Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life		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 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life		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 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ation	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 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data		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 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ecording 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
	ecording 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 1200000 12000000
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d ac	ecording 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 1200000 1200000 20000000 yes
Thermal current Ith IEC/EN 60947-5-1 designa Operating current AC15 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d ac	ecording 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 1200000 1200000

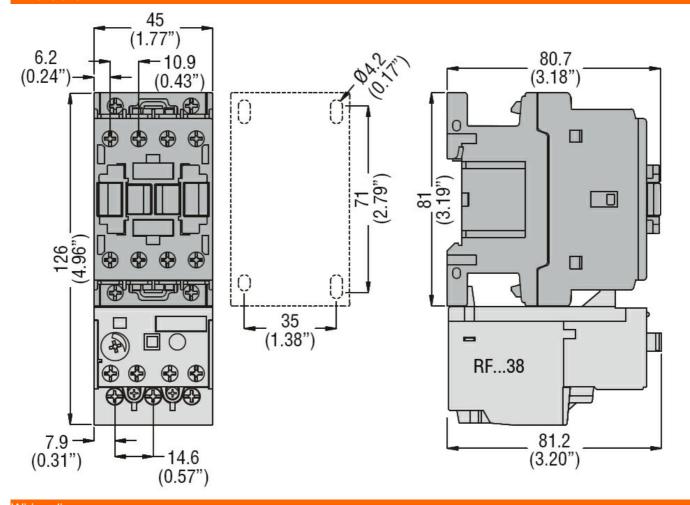


Rated AC voltage at 6	0Hz		V	230
AC operating voltage			<u> </u>	
1 0 0	of 60Hz coil powered at 60Hz			
	pick-up			
	·	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	ontrol			
	in AC			
	Closing NO			
	-	min	ms	8
		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
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	Α	21
		at 600V	Α	17
Yielded mechanical pe				
	for single-phase AC motor			
		110/120V	HP	2
		230V	HP	3
	for three-phase AC motor			
		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 contacts			
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection				
	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 auxiliary contacts according	to UL		A600 - P600
Ambient conditions			
Temperature			
Operating temperatu	ıre		
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

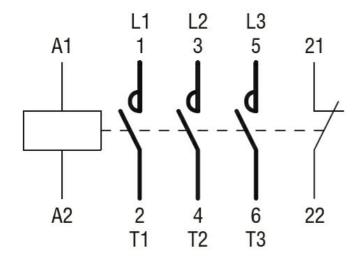


Wiring diagrams



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT - IEC/EN/BS 60335-1



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60335-1

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