



		•	
Product designation			Power contactor
Product type designation			BF25
Contact characteristics			D1 20
Number of poles		nr.	3
		V	690
Rated insulation voltage Ui IEC/EN			
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
Pated aparational power AC 3 (T<55°C)	AC-4 (400V)		10
Rated operational power AC-3 (T≤55°C)	0001/	1-147	7
	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			
The max sarron to in Bot man Ent - mile man i police in conce	≤24V	Α	20
	48V	A	18
	75V	A	18
	110V	A	6
IFO	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	16
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			23 23
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	48V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			



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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			
The max deficit to in 200 200 with 210 = 10mb with 1 polos in conto	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	2
	220V	A	_
IEC may current to in DC2 DC5 with L/D < 15mg with 2 notes in corios	220 V	Α	_ -
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	~241 /	۸	4.0
	≤24V	A	18
	48V	Α	18
	75V	A	16
	110V	A	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			
	≤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)	a (120)	A	250
Breaking capacity at voltage		- / \	200
Disaming supusity at voltage	440V	Α	200
	500V	A	184
	690V	A	102
Posietaneo por polo (avorago valuo)	0907		
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	1.1	147	0.0
	Ith	W	2.6
	AC3	W	1.6
Tightening torque for terminals	_		
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



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		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section				
	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 delug conductor as	max	mm²	4
	Flexible with insulated spade lug conductor se		mm²	1
		min max	mm²	4
Power terminal protect	ction according to IEC/EN 60529	IIIax	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 00329			IF 20 WHEIT WITEG
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Fixing				35mm
Weight			g	358
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC				
, ,		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	А	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data	0ddiam to FN//00 40400 4			
Performance level B1	0d according to EN/ISO 13489-1		1	4000000
		rated load	cycles	1200000
Missas soutsts see : !		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	CO/COLL-		\/	220
Rated AC voltage at 5	DU/DUFIZ		V	230
AC operating voltage	of FO/COLLT goil reguered at FOLLT			
	of 50/60Hz coil powered at 50Hz			
	pick-up	mey	%Us	110
		max	-⁄₀US	110

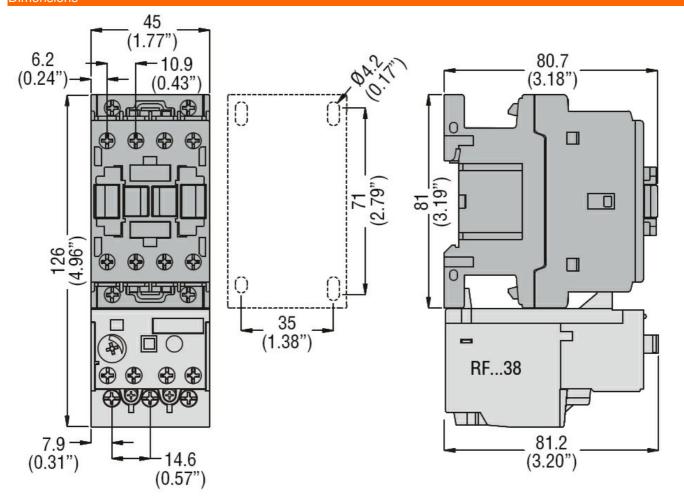


	drop-out		0/11-	00
		min	%Us	20 55
	of 50/60Hz coil powered at 60Hz	max	%Us	55
	pick-up	min	%Us	85
		max	%Us	110
	drop-out	IIIdx	7003	110
	diop out	min	%Us	20
		max	%Us	55
AC operating voltage	e at 20°C			
1 0 0	of 50/60Hz coil powered at 50Hz			
	γ	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	-		W	2.5
Max cycles frequenc	•			
Mechanical operation	า		cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing NO	_		
		min	ms	8
	0 : 110	max	ms	24
	Opening NO			4.0
		min	ms	10
	Closing MC	max	ms	20
	Closing NC			
		min	ma	
		min may	ms ms	14
	Opening NC	min max	ms ms	
	Opening NC	max	ms	14 28
	Opening NC	max min	ms ms	14 28 7
UL technical data	Opening NC	max	ms	14 28
UL technical data Full-load current (FL		max min	ms ms	14 28 7
	Opening NC A) for three-phase AC motor	max min max	ms ms ms	14 28 7 18
		max min max at 480V	ms ms ms	14 28 7 18
Full-load current (FL	A) for three-phase AC motor	max min max	ms ms ms	14 28 7 18
Full-load current (FL	A) for three-phase AC motor performance	max min max at 480V	ms ms ms	14 28 7 18
Full-load current (FL	A) for three-phase AC motor	max min max at 480V	ms ms ms	14 28 7 18
	A) for three-phase AC motor performance	max min max at 480V at 600V	ms ms ms	14 28 7 18 21 17
Full-load current (FL	A) for three-phase AC motor performance	max min max at 480V at 600V	ms ms ms	14 28 7 18 21 17
Full-load current (FL	A) for three-phase AC motor performance for single-phase AC motor	max min max at 480V at 600V	ms ms ms	14 28 7 18 21 17
Full-load current (FL	A) for three-phase AC motor performance for single-phase AC motor	max min max at 480V at 600V 110/120V 230V	ms ms ms	14 28 7 18 21 17
Full-load current (FL	A) for three-phase AC motor performance for single-phase AC motor	max min max at 480V at 600V 110/120V 230V 200/208V	ms ms ms A A HP HP	14 28 7 18 21 17 2 3
Full-load current (FL	A) for three-phase AC motor performance for single-phase AC motor	max min max at 480V at 600V 110/120V 230V 200/208V 220/230V	ms ms ms A A HP HP	14 28 7 18 21 17 2 3 7.5 7.5



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

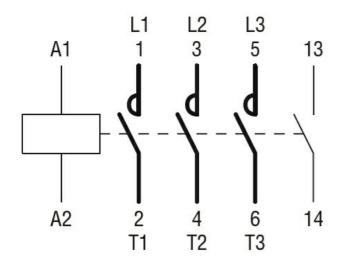
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching