



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 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	lbin	0.74
simultaneously connectable		Nr.	2
AMO (14			
AWG/Kcmii			4.0
Flavible w/s lug conductor costice	max		10
Flexible w/o lug conductor section	min	mama ²	1
			1 6
Flavible c/w lug conductor section	IIIax	111111	· ·
r lexible 6/W lug conductor section	min	mm²	1
			4
Flexible with insulated spade lug conductor section			•
r ionibio mini modiatos opaso lag consusto coción		mm²	1
			4
			IP20 when
ction according to IEC/EN 60529			properly wired
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	356
AWG/kcmil conductor section			
	max		10
acteristics			
		۸	10
voignation		Α	10
esignation		Α	10 A600 - P600
esignation 15	2201/		A600 - P600
	230V 400V	A	A600 - P600 3
	400V	A A	A600 - P600 3 1.9
15		A	A600 - P600 3
	400V 500V	A A A	3 1.9 1.4
15	400V	A A	A600 - P600 3 1.9
15	400V 500V 110V	A A A	3 1.9 1.4 5.7
15	400V 500V 110V 24V	A A A	A600 - P600 3 1.9 1.4 5.7
15	400V 500V 110V	A A A	3 1.9 1.4 5.7
15	400V 500V 110V 24V 48V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3
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
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
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
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
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
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
15	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
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 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
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 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
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 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
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 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
	ction according to IEC/EN 60529 AWG/kcmil conductor section	AWG/Kcmil AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section min max Flexible with insulated spade lug conductor section min max Ction according to IEC/EN 60529 normal allowable	AWG/Kcmil AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section min mm² max mm² Flexible with insulated spade lug conductor section Flexible with insulated spade lug conductor section min mm² max mm² Flexible with insulated spade lug conductor section min mm² max mm² ction according to IEC/EN 60529 AWG/kcmil conductor section g AWG/kcmil conductor section max





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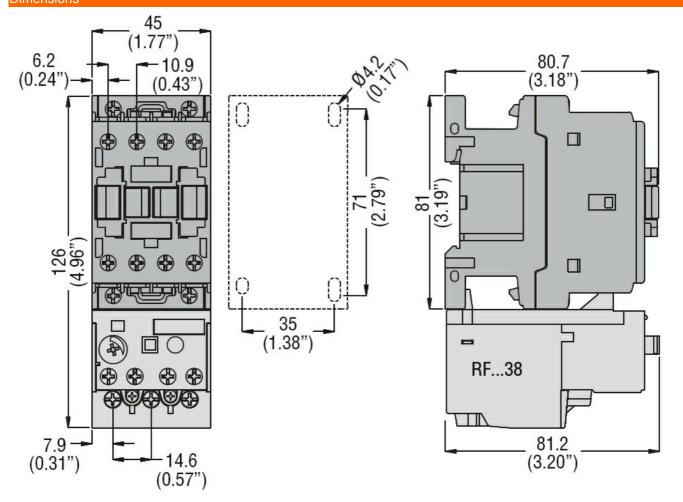
Rated AC voltage at 60Hz		V	24
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out		0/11-	00
	min	%Us %Us	20 55
AC average coil consumption at 20°C	max	/005	55
of 60Hz coil powered at 60Hz			
01 001 12 0011 powerou at 001 12	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz	<u> </u>	W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
Opening NO	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	ot 400\/	۸	24
	at 480V at 600V	A A	21 17
Yielded mechanical performance	at 000 v		17
for single-phase AC motor			
isi single phase /to moter	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	A O	Λ	22
Accelliant applicate	AC current	Α	32
Auxiliary contacts	AC valtage	1/	600
	AC voltage AC current	V A	10
	DC voltage	V	250
	DC current	Ā	1
Short-circuit protection fuse, 600V			
Chort on out protoction race, ecc v			





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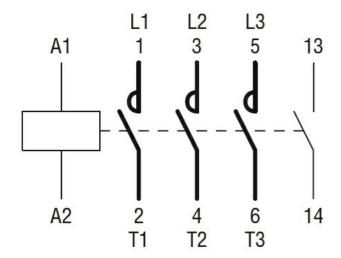
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standard f	ault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary contacts	according to UL			A600 - P600
Ambient conditions				
Temperature				
Operating	temperature			
		min	°C	-50
		max	°C	70
Storage te	emperature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



Wiring diagrams



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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