



Product designation Power contactor Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Нъ 25 max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140 75V Α 155 110V 120 220V Α 125

≤24V

48V

Α

Α

140

140

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series





	75V	Α	155
	110V	Α	140
	220V	A	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	A	6
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V.	•	4.40
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55 7
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<2417	۸	1.10
	≤24V 48V	A	140 115
	48 V 75 V	A A	90
	110V		85
	220V	A A	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		70
TEC Max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)	( - /	Α	1200
Breaking capacity at voltage			
3 24 22 3 20 2	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, ,	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





	Flexible w/o lug conductor section			
	-	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
F' '				Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating			0,0.00	1 100000
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage	0/00112		•	
7.0 operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	110
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	IIIax	/003	33
	pick-up			
	ріск-ир	min	0/ I Io	85
		min	%Us	110
	draw acut	max	%Us	110
	drop-out	min	0/116	40
		min	%Us	40
A O	tit 20°C	max	%Us	55
AC average coil consu	·			
	of 50/60Hz coil powered at 50Hz	1	\/^	200
		in-rush	VA	300
	-# F0/0011!! ! 0011	holding	VA	20
	of 50/60Hz coil powered at 60Hz		1/4	075
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			000
		in-rush	VA	300
		holding	VA	20
Dissipation at holding	≤20°C 50Hz		W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us of				

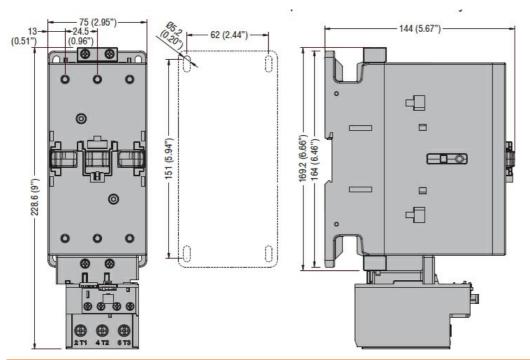




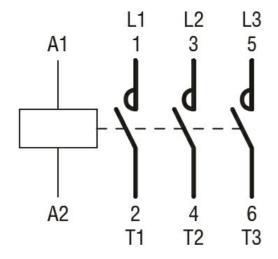
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
Yielded mechanical per	formance				
	for three-phase AC mo	tor			
			200/208V	HP	30
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	Α	150
Short-circuit protection	fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				·
	- ,		min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



#### 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

cULus

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching



Product designation

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



Power contactor

Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Нъ 25 max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140

75V

110V

220V

≤24V

48V

Α

Α

Α

Α

155

120

125

140

140

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series



	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	-0.41.7		
	≤24V	A	140
	48V	A	44
	75V 110V	A	36
	220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		_
The max editent to in 600-600 with ETC = 10113 with 2 poics in series	≤24V	Α	140
	48V	A	63
	75V	Α	60
	110V	A	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			•
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage		_	
	440V	Α	1100
	500V	A	775
Davistana a mala (ausana malus)	690V	A	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141_	147	0.0
	Ith AC3	W W	8.8 4.1
Tightening torque for terminals	AC3	VV	4.1
riginening torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max min	Ibin	<i>7</i> 4.4
	max	Ibin	5.2
Tightening torque for coil terminal	Παλ	10111	U.L
Tighterming torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section	11102		<del></del>
AWG/Kcmil			
	max		2/0





	Flexible w/o lug conductor section			
	r lexible w/o lag corradetor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	тих		7.0
	r lexible c/w rug corrudctor section	min	mm²	1.5
		max	mm²	70
Power terminal protec	tion according to IEC/EN 60529	IIIdx	111111	IP20 front
Mechanical features	tion according to 120/211 00329			11 20 110111
Operating position				
Operating position		normal		Vertical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight				2020
Conductor section			g	2020
Conductor section	ANA/O//			
	AWG/kcmil conductor section			0/0
A. william capata at alaqua	esta viation	max		2/0
Auxiliary contact chara	actensiics		Λ	4.40
Thermal current Ith			Α	140
Operations				4.7.0.0.0.0
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-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	40
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
	•	in-rush	VA	300
		holding	VA	20
Dissipation at holding	≤20°C 50Hz		W	6.5
Max cycles frequency			**	3.0
Mechanical operation			cycles/h	1500
Operating times			Oyoloo/11	.000
Average time for Us co	ontrol			
Average unite 101 US Co	OHIO OH			

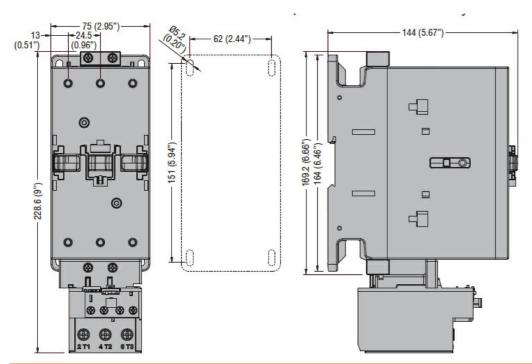




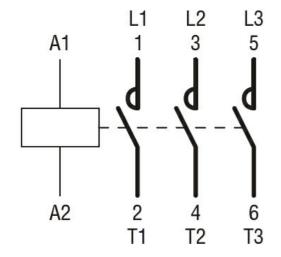
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
Yielded mechanical pe					
	for three-phase AC mo	otor			
			200/208V	HP	30
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	Α	150
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



#### 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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



Product designation Power contactor Product type designation BF95

Contact characteristics

Number of poles Rated insulation voltage Ui IEC/EN V 1000 Rated impulse withstand voltage Uimp
Rated impulse withstand voltage Uimp  Operational frequency  min Hz 25 max Hz 400  IEC Conventional free air thermal current Ith  Operational current le
Operational frequency  min Hz 25 max Hz 400  IEC Conventional free air thermal current lth Operational current le
min Hz 25 max Hz 400  IEC Conventional free air thermal current lth Operational current le
Max Hz 400
IEC Conventional free air thermal current Ith  Operational current le
Operational current le
·
AC-1 (≤40°C) A 140
AC-1 (≤55°C) A 115
AC-1 (≤70°C) A 100
AC-3 (≤440V ≤55°C) A 95
AC-4 (400V) A 45
Rated operational power AC-3 (T≤55°C)
230V kW 30
400V kW 55 415V kW 55
415V kW 55 440V kW 55
500V kW 75
690V kW 90
1000V kW 45
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series
≤24V A 140
48V A 140
75V A 100
110V A 10
220V A –
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series
≤24V A 140
48V A 140
75V A 140
110V A 110
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series
≤24V A 140
48V A 140
75V A 155
110V A 120
IFC many augment to in DC4 with 1/D < 4 many with 4 malos in agrics
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series
≤24V A 140
48V A 140





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	A	6
150 H. J. DOO DOE 111 L/D 445 111 O. L. J. J.	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V		4.40
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55 7
IFC many assument to in DC2 DC5 with L/D < 45 may with 2 males in agrica	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<b>-04</b> 1	۸	140
	≤24V 48V	A A	140 115
	48 V 75 V	A	115 90
	110V		90 85
	220V	A A	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		70
TEC max current le in DC3-DC3 with L/K = 13ms with 4 poles in series	≤24V	Α	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)	()	Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			_
	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





Machanical features           Operating position         normal allowable         Vertical plan ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         2020           Conductor section         max         ½/0           Auxiliary contact characteristics         Total characteristics         Total characteristics           Thermal current lth         A         140           Operations         Cycles         15000000           Reted AC voltage at 50/60Hz         V         110           AC coil operating         V         110           AC operating voltage         min         %/L/S         80           Macroscopic voltage         min         %/	Flexible w/o lug conductor section			
Flexible c/w lug conductor section		min		
Flexible c/w lug conductor section		******	mm²	1.5
Main		max	mm²	70
Power terminal protection according to IEC/EN 60529   IP20 front	Flexible c/w lug conductor section			
Power terminal protection according to IEC/EN 60529   IP20 front   I		min	mm²	1.5
Mechanical features		max	mm²	70
Operating position         normal allowable sign         Vertical plan ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         2020           Conductor section         max         z/0           Auxiliary contact characteristics           Thermal current lth         A         140           Operations           Weight (a) Cycles         15000000           Electrical life         cycles         1400000           AC operating voltage         V         110           AC operating voltage         v         10           AC operating voltage         v         v         5	Power terminal protection according to IEC/EN 60529			IP20 front
No mail   No	Mechanical features			
Fixing   \$\frac{\text{allowable}}{\text{Screw} / \text{DIN rail}}\$   \$\frac{\text{Screw} / \text{DIN rail}}{\text{36mm}}\$   \$\frac{\text{Weight}}{\text{36mm}}\$   \$\text{36mm}\$   \$\text{36mm}\$   \$\text{200}\$   \$\text{200}\$   \$\text{Auxiliary contact characteristics}     \$\text{Thermal current lih}	Operating position			
Fixing   \$\frac{\text{allowable}}{\text{Screw} / \text{DIN rail}}\$   \$\frac{\text{Screw} / \text{DIN rail}}{\text{36mm}}\$   \$\frac{\text{Weight}}{\text{36mm}}\$   \$\text{36mm}\$   \$\text{36mm}\$   \$\text{200}\$   \$\text{200}\$   \$\text{Auxiliary contact characteristics}     \$\text{Thermal current lih}		normal		Vertical plan
Meight   Samm   Samm		allowable		
Meight   Samm   Samm				
AWG/kcmil conductor section   AWG/kcmil conductor section   max   2/0	Fixing			
Conductor section         AWG/kcmil conductor section         max         2/0           Auxiliary contact characteristics         Thermal current life         A         140           Operations         Wechanical life         cycles         15000000           Electrical life         cycles         15000000           AC coil operating         Rated AC voltage at 50/60Hz         v         110           AC operating voltage         min         %Us         80           AC operating voltage         min         %Us         80           accompan         min         %Us         80           accompan         min         %Us         80           accompan         min         %Us         80           accompan         min         %Us         85           accompan         min         %Us         85           accompan         min         %Us         85           accompan         min         %Us         85           accompan         min         min         %Us         85           accompan         min </td <td>Weight</td> <td></td> <td>g</td> <td>2020</td>	Weight		g	2020
AWG/kcmil conductor section    max				
Max   2/0				
Auxiliary contact characteristics  Thermal current Ith	, tri S/ttoriii ooritaastor oootiori	max		2/0
Thermal current lth         A         140           Operations         Cycles         15000000           Electrical life         cycles         15000000           AC colloperating         V         110           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80 max           AC operating voltage         min         %Us         80 max         %Us         110           AC operating voltage         min         %Us         80 max         %Us         110           AC operating voltage         min         %Us         80 max         %Us         110           AC operating voltage         min         %Us         80 max         %Us         110           drop-out         min         %Us         20 max         %Us         55           of 50/60Hz coil powered at 60Hz         min         %Us         40 max         %Us         55           AC average coil consumption at 20°C         of 50/60Hz coil powered at 60Hz         in-rush holding         VA         300 holding         VA         20           AC average coil consumption at coil powered at 60Hz         in-rush holding         VA         20         75 holding         VA         20	Auxiliary contact characteristics	max		2, 0
Operations           Mechanical life         cycles         15000000           AC coil operating         cycles         1400000           Rated AC voltage at 50/60Hz         V         110           AC operating voltage         min         %Us         80           pick-up         min         %Us         80           drop-out         min         %Us         110           drop-out         min         %Us         55           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         85 max           drop-out         min         %Us         85 max           w/Us         110         40         55           AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz         in-rush holding         VA         300 holding           of 50/60Hz coil powered at 60Hz         in-rush holding         VA         275 holding         VA         275 holding           of 60Hz coil powered at 60Hz         in-rush holding         VA         20         0           Dissipation at holding ≤20°C 50Hz         W         6.5           Max cycles frequency         Cycles/h         1500			Δ	140
Mechanical life			/\	140
Electrical life	•		cycles	15000000
Rated AC voltage at 50/60Hz  AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  min %Us 80 max %Us 110  drop-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 85 max %Us 55  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  a in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times			-	
Rated AC voltage at 50/60Hz  AC operating voltage  of 50/60Hz coil powered at 50Hz  pick-up  min %Us 80  max %Us 110  drop-out  min %Us 55  of 50/60Hz coil powered at 60Hz pick-up  min %Us 85  max %Us 55  of 50/60Hz coil powered at 60Hz pick-up  min %Us 85  max %Us 110  drop-out  min %Us 85  max %Us 110  drop-out  min %Us 85  max %Us 110  drop-out  min %Us 40 max 9xUs 55  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times			Cycles	1400000
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  min %Us 80 max %Us 110  drop-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 85 max %Us 110  drop-out  min %Us 85 max %Us 110  drop-out  min %Us 40 max %Us 55  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times	·		\/	110
of 50/60Hz coil powered at 50Hz pick-up    min   MUs   80     max   MUs   110     drop-out   min   MUs   20     max   MUs   55     of 50/60Hz coil powered at 60Hz   pick-up   min   MUs   85     max   MUs   110     drop-out   min   MUs   85     max   MUs   110     drop-out   min   MUs   40     max   MUs   55     AC average coil consumption at 20°C     of 50/60Hz coil powered at 50Hz   in-rush   VA   300     holding   VA   20     of 50/60Hz coil powered at 60Hz   in-rush   VA   275     holding   VA   17     of 60Hz coil powered at 60Hz   in-rush   VA   300     holding   VA   20     Dissipation at holding   S20°C 50Hz   W   6.5     Max cycles frequency   Mechanical operation   cycles/h   1500     Operating times   Cycles/h   1500     Operating times   Cycles/h   1500     of 50/60Hz coil powered   1500   Cycles/h   1500   Cycles/h   1500     of 50/60Hz coil powered   150Hz   Cycles/h   150Hz			V	110
Pick-up   min    %Us    80    max    %Us    110	, , ,			
Min   Mus   80   max   Mus   110   Mus   110   Mus   Mus   110   Mus   Mus   110   Mus   Mus   55   Mus   Mus   55   Mus   Mus   55   Mus   Mus   Mus   55   Mus   Mu	•			
Max   WUs   110   min   wus   20   max   wus   55   wus   55   wus   wus   55   wus   wus   55   wus   wus   wus   55   wus   wus	ріск-ир	•	0/11-	0.0
drop-out   min   %Us   20   max   %Us   55				
min		max	%US	110
max   %Us   55	drop-out		0/11	
of 50/60Hz coil powered at 60Hz pick-up  min %Us 85 max %Us 110  drop-out  min %Us 40 max %Us 55  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation  Cycles/h 1500  Operating times				
pick-up  min %Us 85 max %Us 110  drop-out  min %Us 40 max %Us 55  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation  Cycles/h 1500  Operating times	<del> </del>	max	%Us	55
min	•			
Max   %Us   110	pick-up			
AC average coil consumption at 20°C   Of 50/60Hz coil powered at 50Hz   In-rush   VA   300   holding   VA   275   holding   VA   17   Of 60Hz coil powered at 60Hz   In-rush   VA   300   holding   VA   17   Of 60Hz coil powered at 60Hz   In-rush   VA   300   holding   VA   17   Of 60Hz coil powered at 60Hz   In-rush   VA   300   holding   VA   20   Dissipation at holding   VA   20   Dissipation a		min		
Max       %Us yus 55         AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz       in-rush VA 300 holding VA 20         of 50/60Hz coil powered at 60Hz       in-rush VA 275 holding VA 17         of 60Hz coil powered at 60Hz       in-rush VA 300 holding VA 20         Dissipation at holding ≤20°C 50Hz       W 6.5         Max cycles frequency       Kycles/h 1500         Mechanical operation       cycles/h 1500		max	%Us	110
max       %Us       55         AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz       in-rush VA 300 holding VA 20         of 50/60Hz coil powered at 60Hz       in-rush VA 275 holding VA 17         of 60Hz coil powered at 60Hz       in-rush VA 300 holding VA 20         Dissipation at holding ≤20°C 50Hz       W 6.5         Max cycles frequency         Mechanical operation       cycles/h 1500         Operating times	drop-out			
AC average coil consumption at 20°C  of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times		min		40
of 50/60Hz coil powered at 50Hz  in-rush VA 300 holding VA 20  of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation  Cycles/h 1500  Operating times		max	%Us	55
in-rush	AC average coil consumption at 20°C			
holding   VA   20	of 50/60Hz coil powered at 50Hz			
of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation  cycles/h 1500  Operating times		in-rush	VA	300
of 50/60Hz coil powered at 60Hz  in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  W 6.5  Max cycles frequency  Mechanical operation  cycles/h 1500  Operating times		holding	VA	20
in-rush VA 275 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times	of 50/60Hz coil powered at 60Hz			
holding       VA       17         of 60Hz coil powered at 60Hz       in-rush       VA       300         holding       VA       20         Dissipation at holding ≤20°C 50Hz       W       6.5         Max cycles frequency         Mechanical operation       cycles/h       1500         Operating times	·	in-rush	VA	275
of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz  Max cycles frequency  Mechanical operation  cycles/h 1500  Operating times				
in-rush VA 300 holding VA 20  Dissipation at holding ≤20°C 50Hz W 6.5  Max cycles frequency  Mechanical operation cycles/h 1500  Operating times	of 60Hz coil powered at 60Hz	3		
holdingVA20Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyCycles/h1500Mechanical operationCycles/h1500Operating times	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	in-rush	VA	300
Dissipation at holding ≤20°C 50Hz  Max cycles frequency  Mechanical operation  Operating times  W 6.5  Cycles/h 1500				
Max cycles frequency  Mechanical operation cycles/h 1500  Operating times	Dissipation at holding <20°C 50Hz	nording		
Mechanical operation cycles/h 1500 Operating times	Dissipation at holding -20 0 001 IZ		v V	0.0
Operating times				
· · · · · · · ·	Max cycles frequency		cycles/h	1500
	Max cycles frequency Mechanical operation		cycles/h	1500

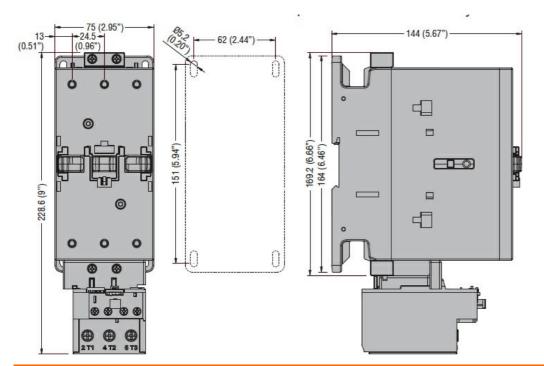




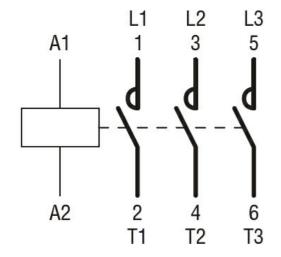
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			_
			min	ms	9
III to desiral data			max	ms	24
UL technical data					
Yielded mechanical pe		-4			
	for three-phase AC me	otor	200/2001	LID	20
			200/208V 220/230V	HP HP	30 30
			220/230V 460/480V	HP HP	30 60
			575/600V	пР HP	75
General USE			373/000V	ПЕ	75
General USE	Contactor				
	Contactor		AC current	Α	150
Short-circuit protection	fuse 600V		AC current		130
Onort circuit protection	High fault				
	riigiriadit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



#### 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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



Product designation

Product type designation

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ, 230VAC



Power contactor

**BF95** 

75V

110V

220V

≤24V

48V

75V

110V

220V

≤24V

48V

Α

Α

Α

Α

Α

Α

Α

Α

Α

140

110

12

140

140

155

120

125

140

140

Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Нъ 25 max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α

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 4 poles in series



	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	A	60
	110V	A	55 -
150	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.0.43.4	_	
	≤24V	A	140
	48V	A	115
	75V	Α	90
	110V	A	85
150	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10 A) /		4.40
	≤24V	A	140
	48V	Α	110
	75V	A	110
	110V	Α	105
Chart time allowable assumed for 40s (IEO/ENICO047.4)	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse	~C (IFC)	۸	100
	gG (IEC)	A	160
Making conscity (PMS value)	aM (IEC)	A A	100
Making capacity (RMS value)		A	1200
Breaking capacity at voltage	440\/	۸	1100
	440V	A	1100
	500V	A	775
Decistores per pela (average value)	690V	A	745 0.45
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	الماء	147	0.0
	Ith	W	8.8
Tightening torque for terminals	AC3	W	4.1
rightening torque for terminals	min	Nim	G
	min	Nm Nm	6
	max	Nm Ibin	7
	min	lbin Ibin	4.4 5.2
Tightening torque for coil terminal	max	ווטוו	J.Z
rightening torque for contentinal	min	Nm	0.8
	min	Nm	
	max min	Ibin	1 0.59
Conductor section	max	Ibin	0.74
AWG/Kcmil			
AVVO/NCIIII	may		2/0
	max		<b>4</b> / <b>U</b>



Flexible	w/o lug conductor section			
	-	min	mm²	1.5
		max	mm²	70
Flexible	c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	70
Power terminal protection accord	ding to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
	_			Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section	_			
	mil conductor section			
, 5,1.6.	The conductor coolien	max		2/0
Auxiliary contact characteristics				_, 0
Thermal current Ith			А	140
Operations			/\	140
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating			Cycles	1400000
Rated AC voltage at 50/60Hz			V	230
			V	230
AC operating voltage				
01 50/601	Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		min	%Us	80
		max	%Us	110
	drop-out		0/11	0.0
		min	%Us	20
6.70/00		max	%Us	55
of 50/60I	Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consumption at				
of 50/60!	Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
of 50/60	Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	coil powered at 60Hz			
of 60Hz		in-rush	VA	300
of 60Hz	·	111-14511	V/\	
of 60Hz	·			20
		holding	VA W	
Dissipation at holding ≤20°C 50H			VA	6.5
Dissipation at holding ≤20°C 50⊢ Max cycles frequency			VA W	6.5
of 60Hz  Dissipation at holding ≤20°C 50H  Max cycles frequency  Mechanical operation  Operating times			VA	6.5

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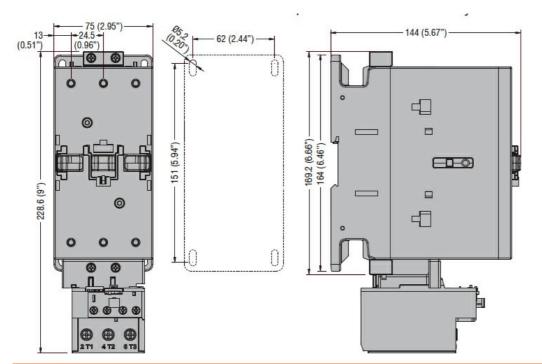




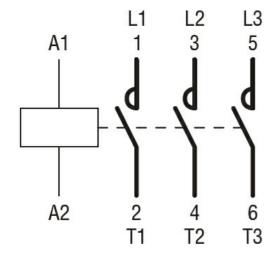
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			_
			min	ms	9
III to desiral data			max	ms	24
UL technical data					
Yielded mechanical pe		-4			
	for three-phase AC me	otor	200/2001	LID	20
			200/208V 220/230V	HP HP	30 30
			220/230V 460/480V	HP HP	30 60
			575/600V	пР HP	75
General USE			373/000V	ПЕ	75
General USE	Contactor				
	Contactor		AC current	Α	150
Short-circuit protection	fuse 600V		AC current		130
Onort circuit protection	High fault				
	riigiriadit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



#### 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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			BF95
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	140
Operational current le			
	AC-1 (≤40°C)	Α	140
	AC-1 (≤55°C)	Α	115
	AC-1 (≤70°C)	Α	100
	AC-3 (≤440V ≤55°C)	Α	95
	AC-4 (400V)	Α	45
Rated operational power AC-3 (T≤55°C)			
	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
7	1000V	kW	45
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	100
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	140
	110V	A	110
150	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	Α	140
	48V	A	140
	75V	A	155
	110V	A	120
150	220V	A	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	-0.01		4.40
	≤24V	A	140
	48V	Α	140



	75V	Α	155
	110V	Α	140
	220V	A	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	A	6
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V.	•	4.40
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<2417	۸	1.10
	≤24V 48V	A	140 115
	48 V 75 V	A A	90
	110V		85
	220V	A A	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		70
TEC Max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)	( - /	Α	1200
Breaking capacity at voltage			
3 24 22 3 20 2	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, ,	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





	min max min max	mm² mm² mm² mm²	1.5 70 1.5
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position	max min	mm²	70
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position	min	mm²	
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position			1.5
Mechanical features Operating position			1.5
Mechanical features Operating position	max	mm²	
Mechanical features Operating position			70
Operating position			IP20 front
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	2020
Conductor section			
AWG/kcmil conductor section			
7 TO STROTHIN CONTROLLED COCKET	max		2/0
Auxiliary contact characteristics	THOSE		2, 0
Thermal current Ith		А	140
Operations			170
Mechanical life		cycles	15000000
Electrical life		cycles	1400000
AC coil operating		Cycles	1400000
Rated AC voltage at 50/60Hz		V	400
			400
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		0/11-	00
	min	%Us	80
	max	%Us	110
drop-out		0/11	00
	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	40
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	20
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	275
	holding	VA	17
of 60Hz coil powered at 60Hz			
·	in-rush	VA	300
	holding	VA	20
Dissipation at holding ≤20°C 50Hz	<u> </u>	W	6.5
Max cycles frequency			
		cycles/h	1500
Mechanical operation		٠, ٥.٥٥/١١	
Mechanical operation Operating times			

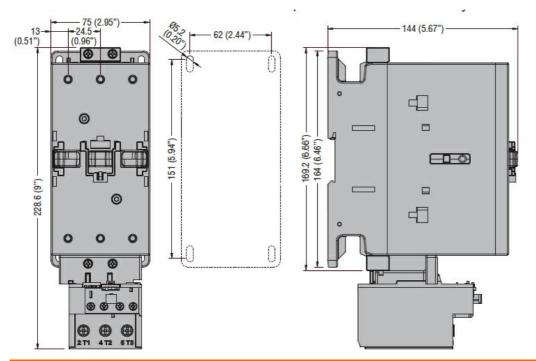




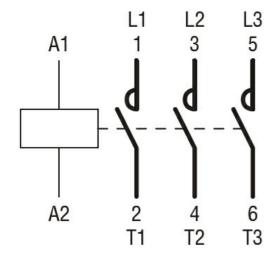
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			_
			min	ms	9
III to desiral data			max	ms	24
UL technical data					
Yielded mechanical pe		-4			
	for three-phase AC me	otor	200/2001	LID	20
			200/208V 220/230V	HP HP	30 30
			220/230V 460/480V	HP HP	30 60
			575/600V	пР HP	75
General USE			373/000V	ПЕ	75
General USE	Contactor				
	Contactor		AC current	Α	150
Short-circuit protection	fuse 600V		AC current		130
Onort circuit protection	High fault				
	riigiriadit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ, 400VAC



#### 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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





			10. 10
Product designation			Power contactor
Product type designation			BF95
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
.,	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	140
Operational current le			
	AC-1 (≤40°C)	Α	140
	AC-1 (≤55°C)	Α	115
	AC-1 (≤70°C)	Α	100
	AC-3 (≤440V ≤55°C)	Α	95
	AC-4 (400V)	Α	45
Rated operational power AC-3 (T≤55°C)			
· · · · · · · · · · · · · · · · · · ·	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
	1000V	kW	45
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	100
	110V	Α	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
'	≤24V	Α	140
	48V	Α	140
	75V	Α	140
	110V	Α	110
	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
'	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	120
	220V	Α	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		-	
2 :	≤24V	Α	140
	48V	A	140
	.5 v	,,	





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
·	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	140
	48V	A	115
	75V	Α	90
	110V	A	85
150 DOO DOO 111 L/D + 45	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10.43.4	•	4.40
	≤24V	A	140
	48V	A	110
	75V	A	110
	110V	A	105
Short-time allowable current for 10s (IEC/EN60947-1)	220V	A A	95 760
Protection fuse		A	700
Flotection fuse	gG (IEC)	Α	160
	aM (IEC)	A	100
Making capacity (RMS value)	aivi (ILC)		1200
Breaking capacity at voltage			1200
breaking capacity at voltage	440V	Α	1100
	500V	A	775
	690V	A	745
Resistance per pole (average value)	000 V	mΩ	0.45
Power dissipation per pole (average value)		11132	0.10
Tower discipation per pero (average value)	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals	7.00		
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





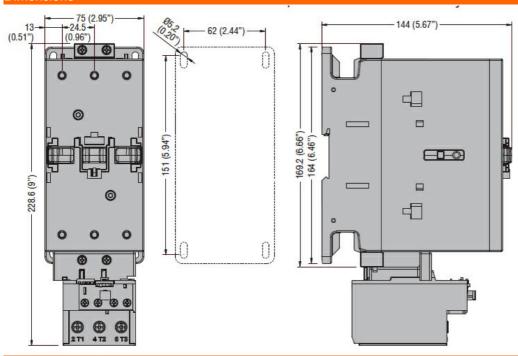
	Flexible w/o lug conductor section			
	-	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	Ç	min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features	g at the second			
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			9	2020
Conductor Section	AWG/kcmil conductor section			
	AVVO/KUIIII CUIIUUCIUI SECIIUII	max		2/0
Auxiliary contact char	actoristics	max		2/0
·	acteristics		^	4.40
Thermal current Ith			Α	140
Operations				4.500000
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at 6			V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	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 cons	sumption at 20°C			
Ŭ	of 60Hz coil powered at 60Hz			
	, , , , , , , , , , , , , , , , , , , ,	in-rush	VA	300
		holding	VA	20
Dissipation at holding	≤20°C 50Hz		W	6.5
Max cycles frequency				0.0
Mechanical operation			cycles/h	1500
Operating times			Oyolo3/11	1000
Average time for Us of	control			
Average unie iui US (	in AC			
	Closing NO			16
		min	ms	16
	0	max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data	o rformon o			
Yielded mechanical p	enormance			

for three-phase AC motor



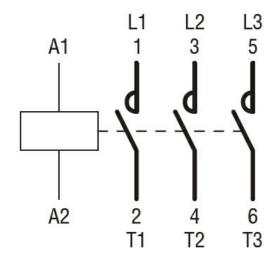
		200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit protect	ction fuse, 600V			
•	High fault			
	9	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions	S			
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

#### **Dimensions**



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

cULus

#### ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 60HZ,



Product designation Power contactor Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140 75V Α 155 110V 120 220V Α 125 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series

≤24V

48V

Α

Α

140

140





	75V	Α	155
	110V	Α	140
	220V	A	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	A	6
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V.	•	4.40
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<2417	۸	1.10
	≤24V 48V	A	140 115
	48 V 75 V	A A	90
	110V		85
	220V	A A	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		70
TEC Max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)	( - /	Α	1200
Breaking capacity at voltage			
3 24 22 3 20 2	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, ,	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





min max min max ormal wable	mm² mm² mm² mm² mm² V m v v v v	1.5 70  1.5 70  IP20 front  Vertical plan ±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
max min max  ormal wable	mm² mm² mm² g  A  cycles cycles	70  1.5 70  IP20 front  Vertical plan ±30°  Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
min max ormal wable	mm² mm²	1.5 70 IP20 front  Vertical plan ±30° Screw / DIN rail 35mm 2020  2/0 140 15000000 1400000
max ormal wable	g  A  cycles cycles	70 IP20 front  Vertical plan ±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
max ormal wable	g  A  cycles cycles	70 IP20 front  Vertical plan ±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
ormal wable	g A cycles cycles	Vertical plan ±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
wable	A cycles cycles	Vertical plan ±30° Screw / DIN rail 35mm 2020 2/0 140 15000000 1400000
wable	A cycles cycles	±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
wable	A cycles cycles	±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
wable	A cycles cycles	±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
	A cycles cycles	±30° Screw / DIN rail 35mm 2020  2/0  140  15000000 1400000
max	A cycles cycles	35mm 2020 2/0 140 15000000 1400000
max	A cycles cycles	2/0 2/0 140 15000000 1400000
max	A cycles cycles	2/0 140 15000000 1400000
max	cycles cycles	140 15000000 1400000
max	cycles cycles	140 15000000 1400000
max	cycles cycles	140 15000000 1400000
	cycles cycles	15000000 1400000
	cycles cycles	15000000 1400000
	cycles	1400000
	cycles	1400000
	cycles	
		48
	V	48
max	%Us	55
min	%Us	80
max	%Us	110
max	7000	
min	%Us	20
	%Us	55
max	7000	
n_rueh	١/٨	300
		20
Juling		6.5
	VV	0.5
	ovoloo/b	1500
	cycles/n	1500
		40
		16
max	ms	32
max		
	ms	9
min		24
		n-rush VA blding VA W cycles/h min ms max ms

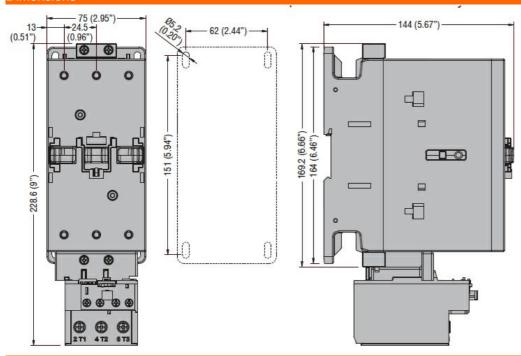
Yielded mechanical performance

for three-phase AC motor



		200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

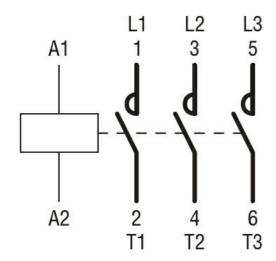
#### **Dimensions**



#### Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 60HZ,



### 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

#### ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation Power contactor Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Нъ 25 max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140 75V Α 155 110V 120 220V Α 125

≤24V

48V

Α

Α

140

140

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			_
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			,
AWG/Kcmil			
	max		2/0



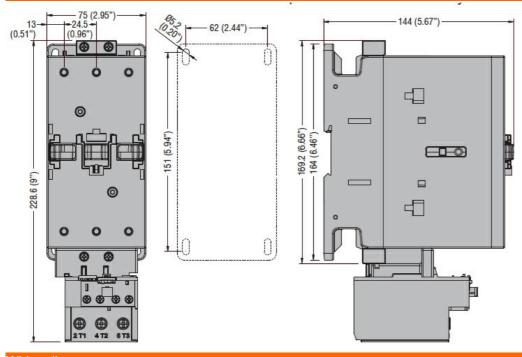


	Flexible w/o lug conductor	section			
			min	mm²	1.5
			max	mm²	70
	Flexible c/w lug conductor	section			
			min	mm²	1.5
			max	mm²	70
Power terminal protection	ction according to IEC/EN 605	529			IP20 front
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight				g	2020
Conductor section					
	AWG/kcmil conductor secti	ion			
			max		2/0
Auxiliary contact char	acteristics				
Thermal current Ith				Α	140
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1400000
AC coil operating					
Rated AC voltage at 6	60Hz			V	120
AC operating voltage					
	of 60Hz coil powered at 60	Hz			
	pic	k-up			
			min	%Us	80
			max	%Us	110
	dro	op-out			
			min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
	of 60Hz coil powered at 60	Hz			
			in-rush	VA	300
			holding	VA	20
Dissipation at holding	≤20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us of	control				
-	in AC				
		osing NO			
		•			16
			min	ms	16
			min max	ms ms	32
	Ор	pening NO			
	Ор	ening NO			
	Ор	ening NO	max	ms	32
UL technical data	Ор	pening NO	max min	ms ms	<ul><li>32</li><li>9</li></ul>
		pening NO	max min	ms ms	<ul><li>32</li><li>9</li></ul>
UL technical data Yielded mechanical p	erformance	pening NO	max min	ms ms	<ul><li>32</li><li>9</li></ul>
UL technical data Yielded mechanical p		pening NO	max min max	ms ms	<ul><li>32</li><li>9</li></ul>
	erformance	pening NO	max min	ms ms ms	32 9 24



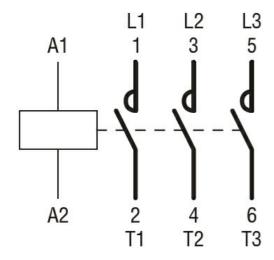
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit protection	on fuse, 600V			
•	High fault			
	· ·	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimensions				

#### **Dimensions**





**ENERGY AND AUTOMATION** 



### 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

#### ETIM classification

ETIM 8.0





Product designation Power contactor Product type designation **BF95** 

Product type designation			BF95
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	140
Operational current le			
	AC-1 (≤40°C)	Α	140
	AC-1 (≤55°C)	Α	115
	AC-1 (≤70°C)	Α	100
	AC-3 (≤440V ≤55°C)	Α	95
	AC-4 (400V)	Α	45
Rated operational power AC-3 (T≤55°C)			
	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
	1000V	kW	45
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			_
	≤24V	Α	140
	48V	Α	140
	75V	Α	100
	110V	Α	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	140
	110V	Α	110
	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			_
	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	120
	220V	Α	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	140





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			_
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





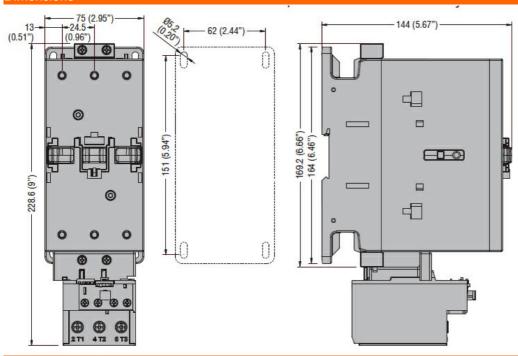
	Flexible w/o lug conductor section			
	Ğ	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2020
Conductor section			9	2020
CONGRESSION SCOTION	AWG/kcmil conductor section			
	ATT STROTTIL CONDUCTOR SOCIOTI	max		2/0
Auxiliary contact chara	cteristics	max		
Thermal current Ith			А	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating			.,	
Rated AC voltage at 60	OHz		V	220
AC operating voltage	2			
1 0 0	of 50/60Hz coil powered at 50Hz			
	drop-out			
	·	max	%Us	55
	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	mption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Dissipation at holding :	≤20°C 50Hz		W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
	in AC			
	in AC	min	ms	16
	in AC Closing NO	min max	ms ms	16 32
	in AC	max	ms	32
Operating times Average time for Us co	in AC Closing NO			

for three-phase AC motor



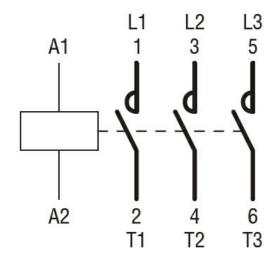
		200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit protect	ction fuse, 600V			
•	High fault			
	9	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions	S			
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

#### **Dimensions**



**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 60HZ,



### 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

#### ETIM classification

ETIM 8.0





Product designation Power contactor Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140 75V Α 155 110V 120 220V Α 125 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V Α 140 48V 140 Α





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	-0.41.7		
	≤24V	A	140
	48V	A	44
	75V 110V	A	36
	220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max editent to in 600-600 with ETC = 10113 with 2 poics in series	≤24V	Α	140
	48V	A	63
	75V	Α	60
	110V	A	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			•
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage		_	
	440V	Α	1100
	500V	A	775
Davistana a mala (ausana malus)	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141_	147	0.0
	Ith AC3	W W	8.8 4.1
Tightening torque for terminals	AC3	VV	4.1
riginening torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max min	Ibin	<i>7</i> 4.4
	max	Ibin	5.2
Tightening torque for coil terminal	Παλ	10111	U.L
Tighterming torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section	11102		<del></del>
AWG/Kcmil			
	max		2/0





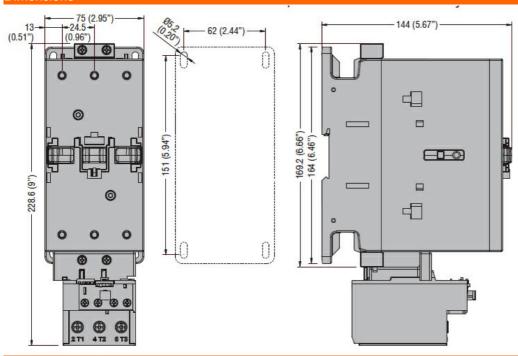
	Flexible w/o lug conductor se	ection		
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor se	ection		
		min	mm²	1.5
		max	mm²	70
	on according to IEC/EN 6052	9		IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			0.40
A	t a station	max		2/0
Auxiliary contact charac	teristics		^	4.40
Thermal current Ith			Α	140
Operations Machanical life			_,l	45000000
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating			\ /	000
Rated AC voltage at 60	HZ		V	230
AC operating voltage	of 50/001	2011-		
	of 50/60Hz coil powered at 5			
	drop		%Us	55
	of 60Hz coil powered at 60Hz	max	7005	55
	-			
	pick-	-up min	%Us	80
		max	%Us	110
	drop		/003	110
	аюр	min	%Us	20
		max	%Us	55
AC average coil consu	notion at 20°C	Пах	,,,,,	
	of 60Hz coil powered at 60H:	7		
	3. 30. 12 30.1 portorou at 0011.	in-rush	VA	300
		holding	VA	20
			W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times			.,	
Average time for Us co	ntrol			
J	in AC			
		sing NO		
	3.00	min	ms	16
			ms	32
		max	IIIo	
	Oper	max ning NO	1115	
	Орег	ning NO	ms	
	Орег			9

for three-phase AC motor

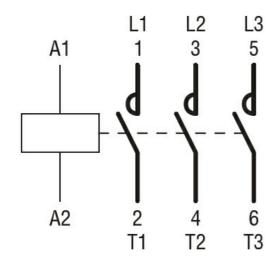


		200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit prote	ction fuse, 600V			
·	High fault			
	Ç	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient condition	IS			
Temperature				
·	Operating temperature			
	, ,	min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

#### **Dimensions**







### 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

#### ETIM classification

ETIM 8.0





Product designation Power contactor Product type designation **BF95** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min max Hz 400 IEC Conventional free air thermal current Ith 140 Α Operational current le AC-1 (≤40°C) Α 140 AC-1 (≤55°C) Α 115 AC-1 (≤70°C) Α 100 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) 230V kW 30 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 140 48V Α 140 75V Α 100 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 140 48V 140 Α 75V Α 140 110V Α 110 220V Α 12 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 140 Α 48V Α 140 75V Α 155 110V 120 220V Α 125 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series

≤24V

48V

Α

Α

140

140





	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			_
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



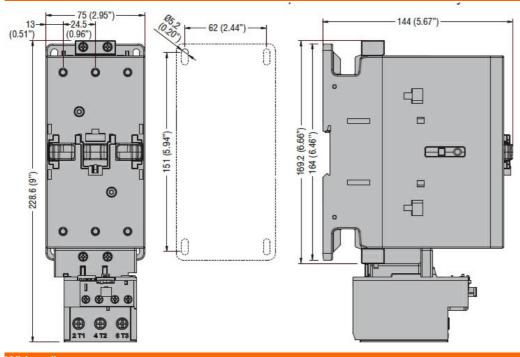


	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	140
Operations				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating			) /	100
Rated AC voltage at 6	<u>60Hz                                    </u>		V	460
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	0.0
		min	%Us	20
AC average sell sens		max	%Us	55
AC average coil cons				
	of 60Hz coil powered at 60Hz	in much	١/٨	200
		in-rush	VA	300
Dissipation at halding	<20°C 501 I-	holding	VA	20
Dissipation at holding			W	6.5
Max cycles frequency			ovoloo/b	1500
Mechanical operation			cycles/h	1500
Operating times  Average time for Us of	control			
Average time for US C				
	in AC Closing NO			
	Closing NO	min	me	16
		min	ms ms	32
	Opening NO	max	ms	JZ
	Ореппу но	min	ms	9
		max	ms	24
UL technical data		IIIaX	1113	<u>-</u> -
Yielded mechanical p	erformance			
riolaca medianicai p	for three-phase AC motor			
	ioi iiiiee-piiase AO IIIoloi	200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		700/400 V	111	

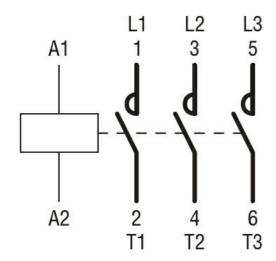


	575/600V	HP	75
General USE			_
Contactor			
	AC current	Α	150
Short-circuit protection fuse, 600V			_
High fault			
•	Short circuit current	kA	100
	Fuse rating	Α	200
	Fuse class		J
Standard fault			_
	Short circuit current	kA	10
	Fuse rating	Α	250
	Fuse class		RK5
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000

#### **Dimensions**







### 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

#### ETIM classification

ETIM 8.0





Product designation Power contactor Product type designation **BF95** 

Product type designation			ргээ
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	140
Operational current le			
	AC-1 (≤40°C)	Α	140
	AC-1 (≤55°C)	Α	115
	AC-1 (≤70°C)	Α	100
	AC-3 (≤440V ≤55°C)	Α	95
	AC-4 (400V)	Α	45
Rated operational power AC-3 (T≤55°C)			
	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
	1000V	kW	45
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	100
	110V	Α	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	140
	110V	Α	110
	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	120
	220V	Α	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	140



	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
	220V	A	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	- , ,	•
TEO THAN GUITOR TO IT DOO DOO WILL EAT 2 TOTHO WILL O POICS IT SOLIOS	≤24V	Α	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
IEC may current to in DC2 DC5 with L/D < 15mg with 4 polos in corios	220 V		70
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	٨	1.10
	≤24V 48V	A	140
		A	110
	75V	A	110
	110V	A	105
Object time allowable assess to a 40 a (IEO/ENGO047.4)	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			100
	. 0 (150)		160
	gG (IEC)	A	
	gG (IEC) aM (IEC)	Α	100
Making capacity (RMS value)			
Making capacity (RMS value)  Breaking capacity at voltage	aM (IEC)	A	100 1200
	aM (IEC)	A A	100 1200 1100
	aM (IEC) 440V 500V	A A A	100 1200 1100 775
Breaking capacity at voltage	aM (IEC)	A A A A	100 1200 1100 775 745
Breaking capacity at voltage  Resistance per pole (average value)	aM (IEC) 440V 500V	A A A	100 1200 1100 775
Breaking capacity at voltage	aM (IEC) 440V 500V 690V	A A A A mΩ	100 1200 1100 775 745 0.45
Breaking capacity at voltage  Resistance per pole (average value)	aM (IEC)  440V 500V 690V	A A A A MΩ	100 1200 1100 775 745 0.45
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC) 440V 500V 690V	A A A A mΩ	100 1200 1100 775 745 0.45
Breaking capacity at voltage  Resistance per pole (average value)	aM (IEC)  440V 500V 690V	A A A A MΩ	100 1200 1100 775 745 0.45
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC)  440V 500V 690V	A A A A MΩ	100 1200 1100 775 745 0.45
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC)  440V 500V 690V  Ith AC3	A A A A MΩ W W Nm Nm	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC)  440V 500V 690V  Ith AC3	A A A A MΩ W W Nm Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC)  440V 500V 690V  Ith AC3  min max	A A A A MΩ W W Nm Nm	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value)  Power dissipation per pole (average value)	aM (IEC)  440V 500V 690V  Ith AC3  min max min	A A A A MΩ W W Nm Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	aM (IEC)  440V 500V 690V  Ith AC3  min max min	A A A A MΩ W W Nm Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	aM (IEC)  440V 500V 690V  Ith AC3  min max min max	A A A A MΩ W W Nm Ibin Ibin	100 1200 1100 775 745 0.45 8.8 4.1
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	aM (IEC)  440V 500V 690V  Ith AC3  min max min max min	A A A A MΩ W W Nm Nm Ibin Ibin	100 1200 1100 775 745 0.45 8.8 4.1 6 7 4.4 5.2
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	aM (IEC)  440V 500V 690V  Ith AC3  min max min max min max	A A A A MΩ W W Nm Nm Ibin Ibin Nm Nm	100 1200 1100 775 745 0.45 8.8 4.1 6 7 4.4 5.2
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	aM (IEC)  440V 500V 690V  Ith AC3  min max min max min max min max	A A A A MΩ W W Nm Nm Ibin Ibin Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1 6 7 4.4 5.2
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal	aM (IEC)  440V 500V 690V  Ith AC3  min max min max min max min max	A A A A MΩ W W Nm Nm Ibin Ibin Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1 6 7 4.4 5.2
Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal	aM (IEC)  440V 500V 690V  Ith AC3  min max min max min max min max	A A A A MΩ W W Nm Nm Ibin Ibin Nm Ibin	100 1200 1100 775 745 0.45 8.8 4.1 6 7 4.4 5.2





	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at 6	0Hz		V	575
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	≤70 Us min
	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	•			
	of 60Hz coil powered at 60Hz	_		
		in-rush	VA	300
District Control	400°0 FOLL	holding	VA	20
Dissipation at holding	\$20°C 50HZ		W	6.5
Max cycles frequency				4500
Mechanical operation			cycles/h	1500
Operating times	a material			
Average time for Us co	in AC			
	Closing NO			
		min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				

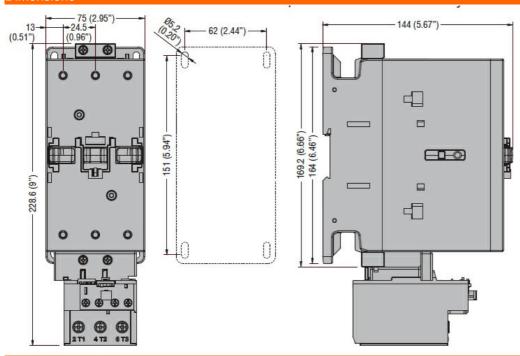
Yielded mechanical performance

for three-phase AC motor

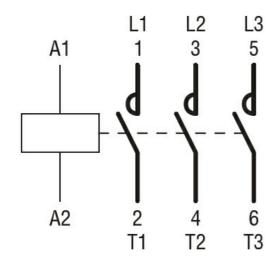


		200/208V	HP	30
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	150
Short-circuit protect	ion fuse, 600V			
·	High fault			
	C	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

#### **Dimensions**







### 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

#### ETIM classification

ETIM 8.0