

Product designation Power contactor
Product type designation BF115

Product type designation			BF115
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	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	130
	AC-1 (≤70°C)	Α	115
	AC-3 (≤440V ≤55°C)	Α	115
	AC-4 (400V)	Α	54
Rated operational power AC-3 (T≤55°C)			
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	120
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	130
· 	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
150	220V	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			400
	≤24V	Α	160
	48V	Α	160



	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	.0.41.7		
	≤24V	A	160
	48V	A	50
	75V 110V	A	40
	220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
120 max current le in 200-200 with E/N = 15ms with 2 poles in series	≤24V	Α	160
	48V	A	72
	75V	Α	65
	110V	A	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			·
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	Α	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	120
	75V	Α	120
	110V	Α	125
	220V	Α	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage		_	
	440V	Α	1200
	500V	A	850
Desistance manuals (suggested to be suggested	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141_	147	44 E
	Ith	W	11.5
Tightening torque for terminals	AC3	W	6.0
riginaring 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	IIIdx	10111	U. <u>L</u>
ngmening torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			-
AWG/Kcmil			
	max		2/0





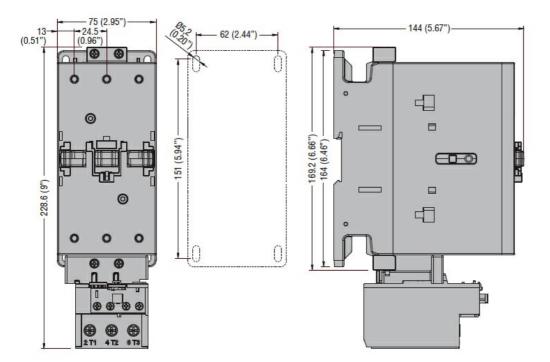
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2060
Conductor section				
	AWG/kcmil conductor section			- /-
		max		2/0
Operations				1.50000000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	0/0011 0011			
Rated AC voltage at 5	U/bUHZ, bUHZ			00
		min	V	20
D : 140 !:	0/001	max	V	48
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage	(= 0/0.01)			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	05.11
		min	%Us	85 Us min
	don out	max	%Us	110
	drop-out		0/116	<70 He main
	of 50/001 - ooil normand of 001 -	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/116	OF He rein
		min	%Us	85 Us min
	drop out	max	%Us	110 Us max
	drop-out	max	%Us	≤70 Us min
AC average coil consu	umption at 20°C	IIIdX	/008	⊒10 03 HIIII
AS average con const	of 50/60Hz coil powered at 50Hz			
	of 50/60f12 coil powered at 50f12	in-rush	VA	70175
		holding	VA VA	1.73.5
	of 50/60Hz coil powered at 60Hz	Holding	VA	1.70.0
	or 50/001 12 con powered at our 12	in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz	Holding	V/1	1.70.0
	or our iz our powered at our iz	in-rush	VA	70175
		holding	VA	1.73.5
Dissipation at holding	<20°C 50Hz	Holding	W	1.31,5
DC coil operating			V V	1.01,0
DC rated control voltage	ne			
DO TALOG GOTTLIOT VOILA	y ~	min	V	20
		max	V	48
		IIIdX	V	10



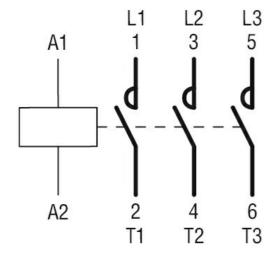
DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
	·· 40000		max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C		: wah	14/	70 00
			in-rush	W	7080 1.31.5
Max cycles frequency			holding	VV	1.31.3
Mechanical operation				cycles/h	1500
Operating times				0,0100/11	1000
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	min	ms	45
			max	ms	90
		Opening NO			
			min	ms	24
			max	ms	60
UL technical data					
Yielded mechanical pe					
	for three-phase AC mo	tor	000/000/	LID	40
			200/208V	HP	40
			220/230V 460/480V	HP HP	40 75
			575/600V	HP	100
General USE			313/000 1		100
Contract COL	Contactor				
	Comactor		AC current	Α	165
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
A pobiopt agaditions			Fuse class		RK5
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature		min	°C	-50
			max	°C	-50 70
	Storage temperature		Παλ		7.0
	Storago temperature		min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions [mm (in)]					

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 20...48VAC/DC



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 BF115

Product type designation			BF115
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	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	130
	AC-1 (≤70°C)	Α	115
	AC-3 (≤440V ≤55°C)	Α	115
	AC-4 (400V)	Α	54
Rated operational power AC-3 (T≤55°C)			
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	120
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	130
· 	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
150	220V	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			400
	≤24V	Α	160
	48V	Α	160



BF11500E110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 60...110VAC/DC

	75V	Α	160
	110V	Α	160
	220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	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	•	400
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
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	~241 /	۸	100
	≤24V 48V	A	160 150
	48 V 75 V	A A	150 100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		92
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)	()	Α	1500
Breaking capacity at voltage			
3 24 22 3 20 2	440V	Α	1200
	500V	Α	850
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, ,	Ith	W	11.5
	AC3	W	6.0
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





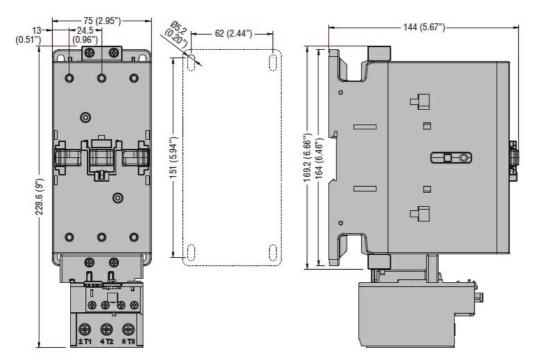
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2060
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				1.000000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	0.0011			
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	60
D : 140 1:	0.0011	max	V	110
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
		max	%Us	110
	drop-out		0/11	-70.11
	. (50/0011	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	00 He rein
		min	%Us	80 Us min
	drop out	max	%Us	110 Us max
	drop-out	may	0/116	≤70 Us min
AC average coil consu	Imption at 20°C	max	%Us	≥10 05 HIIII
no average con const	•			
	of 50/60Hz coil powered at 50Hz	in-rush	١/٨	70 175
		holding	VA VA	70175 1.73.5
	of 50/60Hz coil powered at 60Hz	Holding	٧A	1.73.3
	or 50/00112 con powered at 60H2	in-rush	VA	70175
		holding	VA VA	1.73.5
	of 60Hz coil powered at 60Hz	Holding	٧A	1.7 0.0
	of 60Hz coil powered at 60Hz	in-rush	VA	70175
		holding	VA VA	1.73.5
Dissipation at holding		Holding	W	1.31,5
DC coil operating	⇒∠∪ ∪ JUI IZ		V V	1.01,0
DC coll operating DC rated control voltage	90			
Jo rated Control Volta	A <u>c</u>	min	V	60
		min	V V	110
		max	V	110



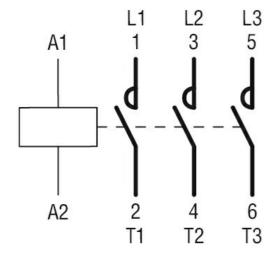
DC rated control voltage	ge			V	110
OC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consump	tion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
verage time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	45
			max	ms	90
		Opening NO			
			min	ms	24
			max	ms	60
JL technical data					
ielded mechanical pe	erformance				
	for three-phase AC mo	otor			
			200/208V	HP	40
			220/230V	HP	40
			460/480V	HP	75
			575/600V	HP	100
General USE					
	Contactor				
			AC current	Α	165
Short-circuit protection	n fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Short circuit current Fuse rating	kA A	100 200
	Standard fault		Fuse rating		200
	Standard fault		Fuse rating		200
	Standard fault		Fuse rating Fuse class	A	200 J 10 250
	Standard fault		Fuse rating Fuse class Short circuit current	A kA	200 J
mbient conditions	Standard fault		Fuse rating Fuse class Short circuit current Fuse rating	A kA	200 J 10 250
	Standard fault		Fuse rating Fuse class Short circuit current Fuse rating	A kA	200 J 10 250
	Standard fault Operating temperature		Fuse rating Fuse class Short circuit current Fuse rating	A kA	200 J 10 250
			Fuse rating Fuse class Short circuit current Fuse rating	A kA	200 J 10 250
			Fuse rating Fuse class Short circuit current Fuse rating Fuse class	kA A	200 J 10 250 RK5
			Fuse rating Fuse class Short circuit current Fuse rating Fuse class min	A kA A	200 J 10 250 RK5
Ambient conditions Femperature	Operating temperature		Fuse rating Fuse class Short circuit current Fuse rating Fuse class min	A kA A	200 J 10 250 RK5
	Operating temperature		Fuse rating Fuse class Short circuit current Fuse rating Fuse class min max	kA A °C °C	200 J 10 250 RK5 -50 70

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 60...110VAC/DC



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

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Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation Power contactor
Product type designation BF115

Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 1000 Rated insulation voltage Withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 400 IEC Conventional free air thermal current Ith A 160 40 Operational current Ie AC-1 (≤40°C) A 160 AC-1 (≤70°C) A 115 AC-1 (≤70°C) A 115 AC-3 (≤400 v55°C) A 115 AC-4 (400v) A 54 Rated operational power AC-3 (T≤55°C) 230v kW 37 400v kW 55 AC-1 (400v) A 54 400v kW 55 55 AC-1 (400v) A 54 400v kW 55 500v	Product type designation			BF115
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 160 Operational current Ie AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 130 AC-1 (≤70°C) A 115 AC-3 (≤4400 ≤55°C) A 115 AC-3 (≤4400 ≤55°C) A 115 AC-4 (400V) A 54 Rated operational power AC-3 (Г≤55°C) 230V kW 37 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 110 1000V kW 55 IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series S24V A 160 48V A 160 75V A 120 110V A 10 220V A - IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series S24V A 160 48V A 160 75V A 120 110V A 10 220V A - IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series S24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series S24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series S24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series S24V A 160 48V A 160 75V A 160 110V A 140 220V A 145 IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series	Contact characteristics			
Rated impulse withstand voltage Uimp Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 160 Operational current Ie AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 115 AC-3 (≤440∨ ≤55°C) A 115 AC-4 (400V) A 54 Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 440V kW 55 440V kW 55 500V kW 75 6890V kW 110 1000V kW 55 IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 48V A 160 75V A 120 1110V A 10 220V A − IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 48V A 160 75V A 120 1110V A 10 220V A − IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 75V A 160 110V A 130 220V A 145 IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160 75V A 160 110V A 140 220V A 145 IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series	Number of poles		Nr.	3
Pick	Rated insulation voltage Ui IEC/EN		V	1000
Min	Rated impulse withstand voltage Uimp		kV	8
IEC Conventional free air thermal current lth	Operational frequency			
IEC Conventional free air thermal current lith		min	Hz	25
Operational current le AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 130 AC-1 (≤70°C) A 115 AC-3 (≤440V ≤55°C) A 115 AC-3 (≤440V ≤55°C) A 115 AC-4 (400V) A 54 Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 415V kW 55 4416V kW 55 500V kW 75 680V kW 110 1000V kW 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 48V A 160 75V A 120 110V A 10 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 75V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 75V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		max	Hz	400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	160
AC-1 (≤55°C)	Operational current le			
AC-1 (≤70°C) A 115 AC-3 (≤440V ≤55°C) A 115 AC-4 (400V) A 54 Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 415V kW 55 415V kW 55 500V kW 75 690V kW 110 1000V kW 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 75V A 120 110V A 10 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 75V A 160 110V A 130 220V A 140 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 75V A 160		AC-1 (≤40°C)	Α	160
AC-3 (≤440V ≤55°C) A 115 AC-4 (400V) A 54 Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 415V kW 55 415V kW 55 500V kW 75 690V kW 110 1000V kW 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 48V A 160 75V A 120 110V A 10 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 10 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-1 (≤55°C)	Α	130
Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 110 1000V kW 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 48V A 160 75V A 120 110V A 10 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 48V A 160 75V A 120 110V A 10 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 48V A 160 75V A 160 48V A 160 75V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 75V A 160 110V A 140 220V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-1 (≤70°C)	Α	115
Rated operational power AC-3 (T≤55°C) 230V kW 37 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 110 1000V kV 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 160 48V A 160 75V A 120 110V A 10 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 130 220V A 14 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-3 (≤440V ≤55°C)	Α	115
230V kW 37 400V kW 55 415V kW 55 445V kW 55 500V kW 75 690V kW 110 1000V kW 55 500V		AC-4 (400V)	Α	54
400V kW 55 415V kW 55 440V kW 55 440V kW 55 500V kW 75 690V kW 110 1000V kW 55 500V kW 110 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 600V 6	Rated operational power AC-3 (T≤55°C)			
415V		230V	kW	37
440V kW 55 500V kW 75 690V kW 110 1000V kW 55 EEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		400V	kW	55
Soov kW 75 690V kW 110 1000V kW 55 Sociation Sociatio		415V	kW	
690V kW 110 1000V kW 55 110 1		440V	kW	
1000V kW 55 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
SEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V				
≤24V		1000V	kW	55
48V A 160 75V A 120 110V A 10 220V A -	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V A 120 110V A 10 220V A -				
110V				
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			Α	
Section Sec			Α	10
≤24V		220V	A	
48V	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
75V A 160 110V A 130 220V A 14			Α	
110V A 130 220V A 14			Α	
220V A 14			Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 160 48V A 160 75V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160			Α	130
≤24V A 160 48V A 160 75V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		220V	Α	14
48V A 160 75V A 160 110V A 140 140 145 14	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
75V A 160 110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160		≤24V	Α	160
110V A 140 220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160		48V	Α	160
220V A 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160			Α	160
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V A 160		110V	Α	140
≤24V A 160		220V	Α	145
	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
48V A 160		≤24V	Α	160
		48V	Α	160



	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	.0.41.7		
	≤24V	A	160
	48V	A	50
	75V 110V	A	40
	220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
120 max current le in 200-200 with E/N = 15ms with 2 poles in series	≤24V	Α	160
	48V	A	72
	75V	Α	65
	110V	A	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			·
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	Α	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	120
	75V	Α	120
	110V	Α	125
	220V	Α	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage		_	
	440V	Α	1200
	500V	A	850
Desistance manuals (suggested to be suggested	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141_	147	44 E
	Ith	W	11.5
Tightening torque for terminals	AC3	W	6.0
riginaring 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	IIIdx	10111	U. <u>L</u>
ngmening torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			-
AWG/Kcmil			
	max		2/0





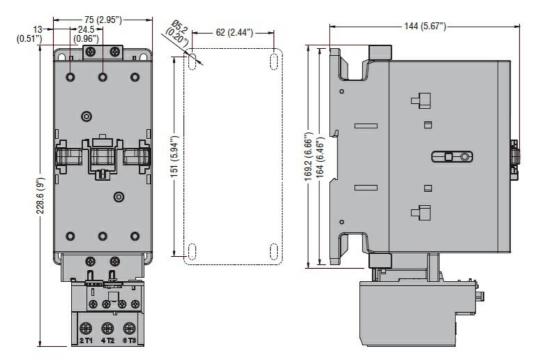
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2060
Conductor section				
	AWG/kcmil conductor section			- /-
		max		2/0
Operations				4500000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	0/0011 0011			
Rated AC voltage at 5	U/bUHZ, bUHZ			400
		min	V	100
D. (. 1 A O 1 (4 5	0/0011	max	V	250
Rated AC voltage at 5	U/6UHZ		V	230
AC operating voltage	(50/00H			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/116	0.0
		min	%Us	80
	drop out	max	%Us	110
	drop-out	may	%Us	≤70 Us min
	of EO/GOUZ poil newared at GOUZ	max	7005	270 05 11111
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80 Us min
		max	%Us %Us	110 Us max
	drop-out	max	/003	i io os iliax
	diop out	max	%Us	≤70 Us min
AC average coil consu	umption at 20°C	max	7000	
	of 50/60Hz coil powered at 50Hz			
	5. 55,001 12 5511 portorou at 501 12	in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz	110101119		
	2. 25, 25 <u>2</u> 25 ponolog at 00112	in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz	19		
		in-rush	VA	70175
		holding	VA	1.73.5
Dissipation at holding	≤20°C 50Hz	19	W	1.31,5
DC coil operating				
DC rated control voltage	ge			
J coor volta	∪ -	min	V	100
		max	V	250
		max	•	



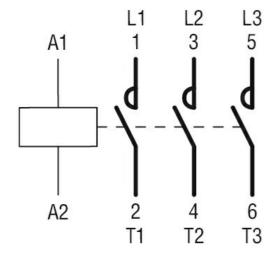
DC rated control voltage	je			V	230
DC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency				. "	4.700
Mechanical operation				cycles/h	1500
Operating times	art and				
Average time for Us co					
	in AC	Clasina NO			
		Closing NO	ma:.a	me	15
			min	ms ms	45 90
		Opening NO	max	ms	3 0
		Opening NO	min	ms	24
			max	ms	60
UL technical data			max	1113	
Yielded mechanical pe	rformance				
	for three-phase AC mot	or			
			200/208V	HP	40
			220/230V	HP	40
			460/480V	HP	75
			575/600V	HP	100
General USE					
	Contactor				
			AC current	Α	165
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 DK5
Ambient conditions			Fuse class		RK5
Ambient conditions					
Temperature	Operating towns and				
	Operating temperature		min	°C	-50
			max	°C	-50 70
	Storage temperature		IIIdX		10
	Storage temperature		min	°C	-60
			max	°C	+80
Max altitude			παλ		3000
Dimensions [mm (in)]					
[()]					

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 100...250VAC/DC



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

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