



Product designation Product type designation			Power contactor B630
Contact characteristics			
Number of poles		Nr.	4
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	800
Operational current le			
	AC-1 (≤40°C)	Α	800
	AC-1 (≤55°C)	Α	640
	AC-1 (≤70°C)	Α	540
	AC-3 (≤440V ≤55°C)	Α	630
	AC-4 (400V)	Α	210
Rated operational power AC-1 (T≤40°C)			
	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	<b></b>
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700



IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
ileo max current le in bos-bos with bit 2 15ms with 2 poles in series	75\/	٨	000
	75V	A	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<del>4</del> 00 v		<del></del>
TEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	751		000
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	A	630
Making apposity (DMC value)	aivi (IEC)		
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
,	lth	W	90
	AC3	W	56
Tightening torque for terminals	7.00	**	
rightening torque for terminals		Nima	EE
	min	Nm	55 55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
Max number of wires simultaneously connectable		Nr.	2
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
Operating position	normal		Vertical plan
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	2194



**ENERGY AND AUTOMATION** 

Operations			
Mechanical life		cycles	5000000
Electrical life		cycles	700000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	5000000
Mirror contats according to IEC/EN 609474-4-1			Yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	220
	max	V	240
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	60
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	400
	holding	VA	18
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	400
	holding	VA	18
Dissipation at holding ≤20°C 50Hz		W	18
DC coil operating			
DC rated control voltage			
	min	V	220
	max	V	240
DO an another a college			
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DC operating voltage pick-up			0.0
	min	%Us	80
pick-up	min max	%Us %Us	80 110
, , ,	max	%Us	110

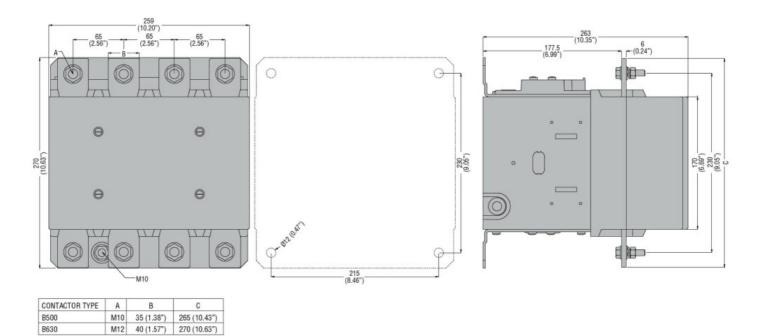


Average coil consumpt	ion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
UL technical data			max	ms	100
General USE					
General OSL	Contactor				
	Contactor		AC current	Α	800
Short-circuit protection	fuse 600V		AC current		000
Short-circuit protection	Standard fault				
	Otandard radit		Short circuit current	kA	18
			Fuse rating	A	1500
			Fuse class	, ,	L
Ambient conditions			. 455 5/466		_
Temperature					
r	Operating temperature				
	1 3		min	°C	-50
			max	°C	70
	Storage temperature				
	,		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions					
Dimensions					

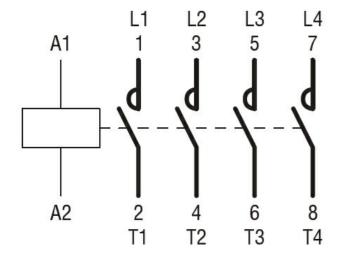


**ENERGY AND AUTOMATION** 

## Four-pole contactor, IEC operating current Ith (AC1) = 800A, AC/DC coil, 220...240VAC/DC



## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

## ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching