

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 440...480VAC/DC



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	260
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	
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



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EC 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	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
20 max carrent to in 200 200 min 2/11 = 10mb mar o poloc in conce	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	
FC many assument to im DC2 DC5 with 1/D < 45ma with 4 males in agriculture	460 V	A	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75)/	^	000
	75V	A	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	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)			
,	Ith	W	90
	AC-3	W	56
Fightening torque for terminals			
righterming torque for terminale	min	Nm	55
	max	Nm	55 55
	min	Ibin	40.6
	max	Ibin	40.6
Fightening torque for coil terminal	IIIaX	IUIII	70.0
nginering torque for con terrillial		Nima	1
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section AWG/Kcmil			
Conductor section AWG/Kcmil	max		2x 600 kcmil



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Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Veight			g	2203
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d accor	ding to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
lirror contats according to IEC	C/EN 609474-4-1			Yes
MC compatibility				yes
C coil operating				
ated AC voltage at 50/60Hz, (60Hz			
-		min	V	440
		max	V	480
C operating voltage				
	OHz coil powered at 50Hz			
	pick-up			
	From Sp	min	%Us	80
		max	%Us	110
	drop-out			
	2. Sp - 2.	min	%Us	20
		max	%Us	60
of 50/6	OHz coil powered at 60Hz			
3. 33. 3	pick-up			
	From Sp	min	%Us	80
		max	%Us	110
	drop-out			-
	•	min	%Us	20
		max	%Us	60
of 60H	z coil powered at 60Hz			
	pick-up			
	1 - 2 F	min	%Us	80
		max	%Us	110
	drop-out	-	-	
		min	%Us	20
		max	%Us	60
C average coil consumption a	at 20°C		-	
	60Hz coil powered at 50Hz			
3. 30/0		in-rush	VA	400
		holding	VA	18
of 50/6	OHz coil powered at 60Hz	9	•	-
3. 30/0		in-rush	VA	400
		holding	VA	18
Dissipation at holding ≤20°C 50	NHz	noiding	W	18
C coil operating	71 IC		v v	10
OC rated control voltage				
o rated control voltage		min	V	440
			V	480
		max	V	400



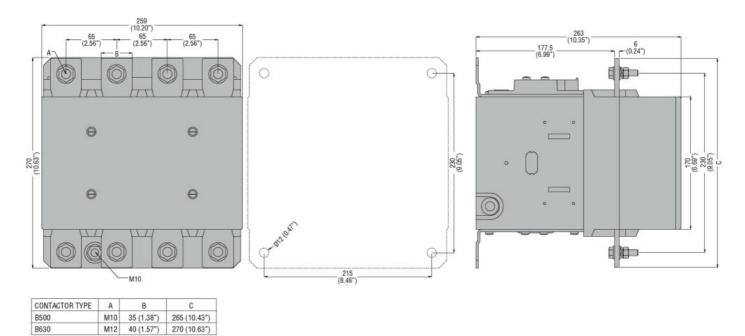


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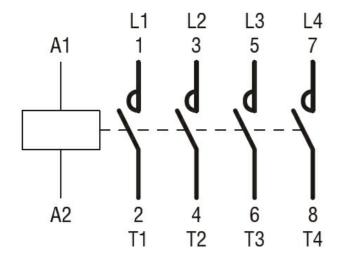
	pick-up				
	r		min	%Us	80
			max	%Us	110
	drop-out				
	•		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC	Olasia a NO			
		Closing NO	i-		440
			min	ms	110 180
		Opening NO	max	ms	100
		Opening NO	min	ms	60
			max	ms	100
	in DC		max	1110	100
	111 00	Closing NO			
		Cicomig ito	min	ms	110
			max	ms	180
		Opening NO			
		, ,	min	ms	60
			max	ms	100
UL technical data					
Rated operational volta	age AC (UL)			V	600
General USE					
	Contactor				
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
A mala in the constitution of			Fuse class		L
Ambient conditions					
Temperature	Operation terms				
	Operating temperature		min	°C	-50
				°C	70
	Storage temperature		max		7.0
	Otorage temperature		min	°C	-60
			max	°C	80
Max altitude			max	 m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION

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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