



Product designation

Power contactor

Product type designation

B250

**Contact characteristics**

Number of poles	Nr.	4
Rated insulation voltage $U_i$ IEC/EN	V	1000
Rated impulse withstand voltage $U_{imp}$	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th}$	A	350
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 350
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 300
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 250
	AC-3 ( $\leq 440\text{V } \leq 55^\circ\text{C}$ )	A 265
	AC-4 (400V)	A 115
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 124
	400V	kW 214
	500V	kW 282
	690V	kW 380
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A 350
	110V	A 160
	220V	A --
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V	A 350
	110V	A 300
	220V	A 250
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	75V	A 350
	110V	A 300
	220V	A 300
	330V	A 250
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	75V	A 350
	110V	A 300
	220V	A 300
	330V	A 300
	460V	A 250

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	280
110V	A	150
220V	A	--
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	280
110V	A	250
220V	A	200
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	280
110V	A	280
220V	A	250
330V	A	200
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	280
110V	A	280
220V	A	280
330V	A	200
460V	A	200

Short-time allowable current for 10s (IEC/EN60947-1)

A	2200
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Protection fuse

gG (IEC)	A	400
aM (IEC)	A	250

Making capacity (RMS value)

A	2750
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Breaking capacity at voltage

440V	A	2500
500V	A	2250
690V	A	2200

Resistance per pole (average value)

m?	0.2
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Power dissipation per pole (average value)

$I_{th}$	W	24.5
AC3	W	12.5

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	lbin	25.8
max	lbin	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	lbin	0.74
max	lbin	0.74

Max number of wires simultaneously connectable

Nr.	2
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Conductor section

AWG/Kcmil

max	500 kcmil
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Power terminal protection according to IEC/EN 60529

IP00

**Mechanical features**

## Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1114

## Conductor section

AWG/kcmil conductor section

max

500 kcmil

## Operations

Mechanical life	cycles	10000000
Electrical life	cycles	1000000

## Safety related data

Performance level B10d according to EN/ISO 13489-1

	rated load mechanical load	cycles	1000000
		cycles	10000000

Mirror contacts according to IEC/EN 60947-4-1

yes

EMC compatibility

yes

## AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

min	V	380
max	V	415

## 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	300
holding	VA	10

of 50/60Hz coil powered at 60Hz

in-rush	VA	300
holding	VA	10

Dissipation at holding ≤20°C 50Hz

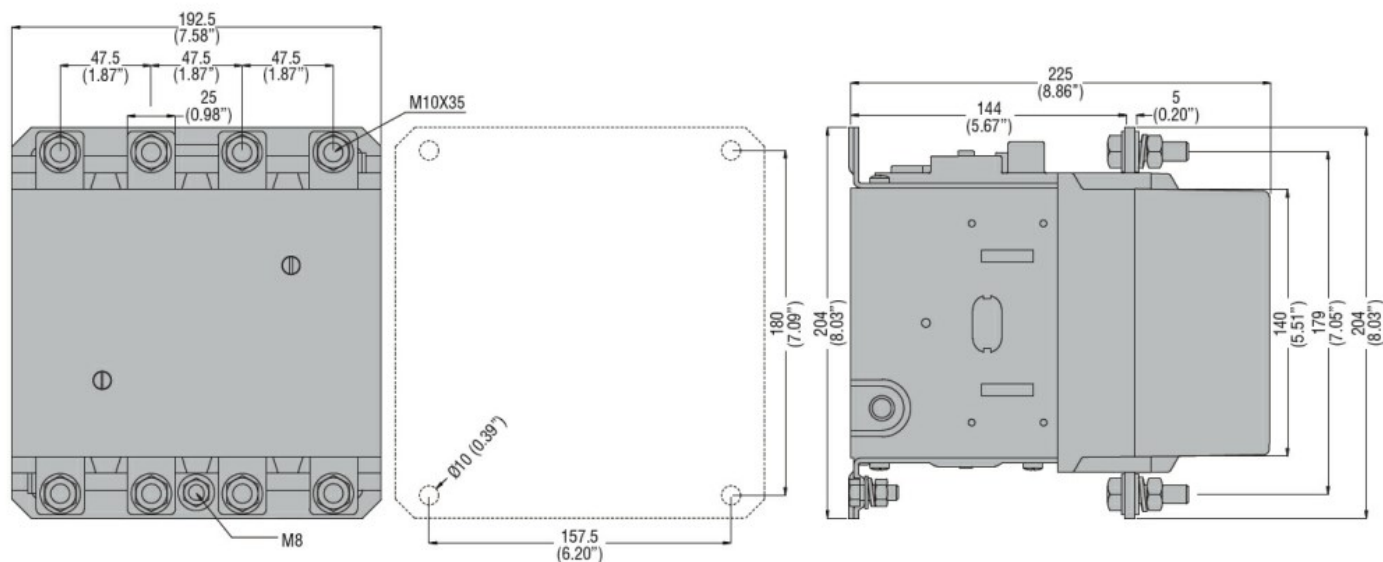
W	10
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## DC coil operating

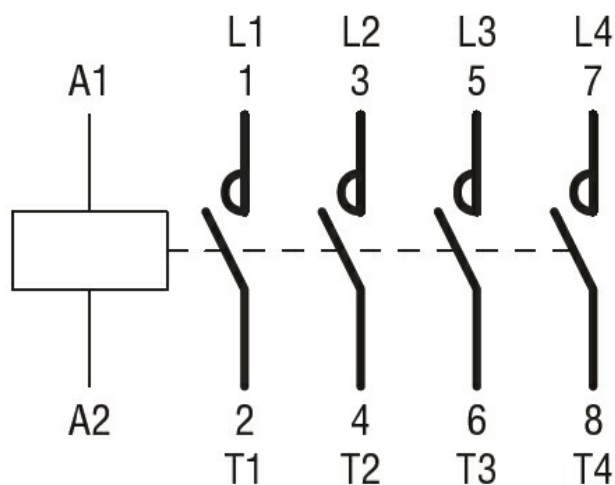
DC rated control voltage

		min	V	380	
		max	V	415	
DC operating voltage					
pick-up		min	%Us	80	
		max	%Us	110	
drop-out		min	%Us	20	
		max	%Us	60	
Average coil consumption ≤20°C					
		in-rush	W	300	
		holding	W	10	
Max cycles frequency					
Mechanical operation			cycles/h	2400	
Operating times					
Average time for Us control					
in AC	Closing NO	min	ms	80	
		max	ms	120	
		Opening NO	min	ms	30
			max	ms	75
	in DC	Closing NO	min	ms	80
			max	ms	120
		Opening NO	min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA) for three-phase AC motor					
		at 480V	A	240	
		at 600V	A	242	
Yielded mechanical performance					
for three-phase AC motor					
		200/208V	HP	75	
		220/230V	HP	100	
		460/480V	HP	200	
		575/600V	HP	250	
General USE					
Contactor		AC current	A	350	
Short-circuit protection fuse, 600V					
Standard fault		Short circuit current	kA	18	
		Fuse rating	A	800	
		Fuse class		L	
Ambient conditions					
Temperature					
Operating temperature		min	°C	-50	
		max	°C	70	
Storage temperature					

	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



#### 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