



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)

mΩ	0.2
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Power dissipation per pole (average value)

$I_{th}$	W	24.5
AC-3	W	12.5

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	Ibin	25.8
max	Ibin	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	Ibin	0.74
max	Ibin	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	1123

## 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	cycles	1000000
	mechanical load	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	110
max	V	125

## 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

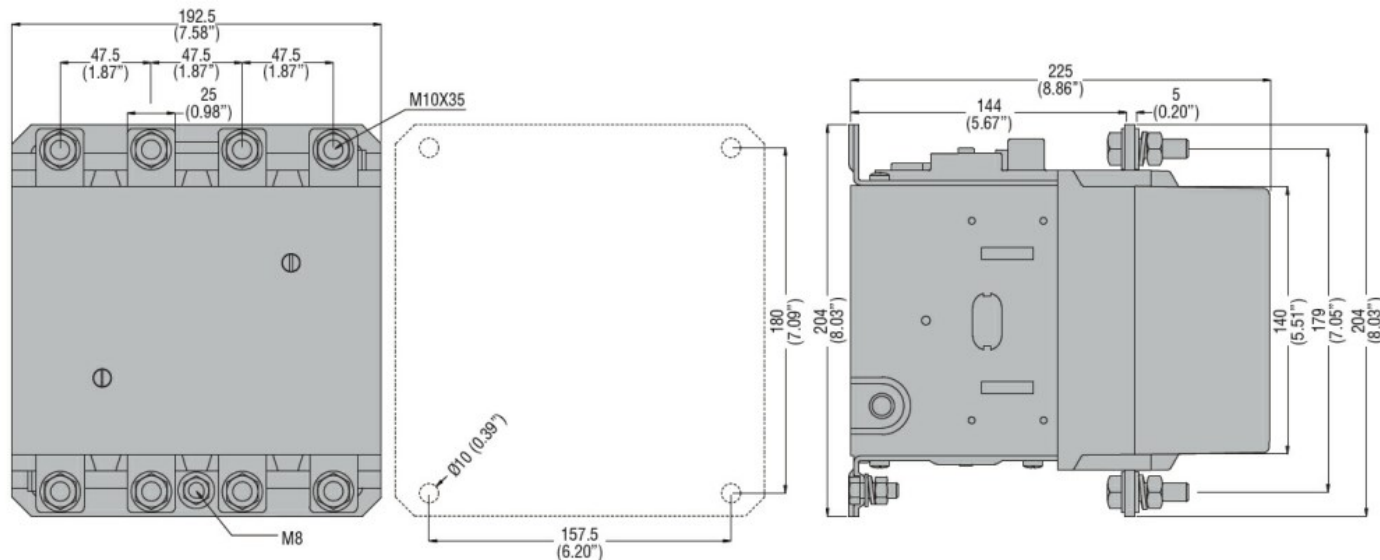
W	10
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## DC coil operating

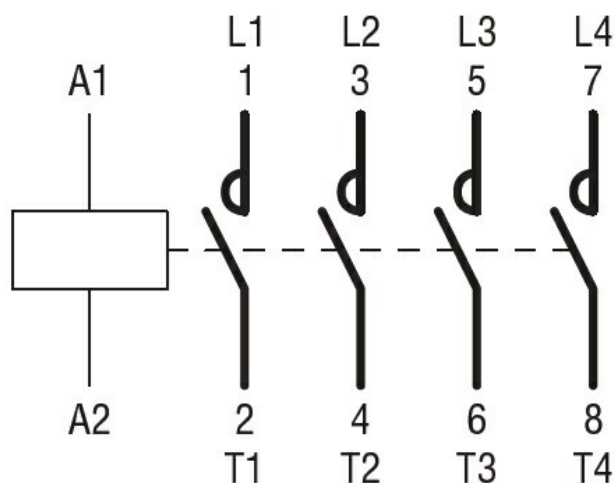
DC rated control voltage

		min	V	110
		max	V	125
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
		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

