



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	1112

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	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	300
holding	VA	10

of 50/60Hz coil powered at 60Hz

in-rush	VA	300
holding	VA	10

Dissipation at holding ≤20°C 50Hz

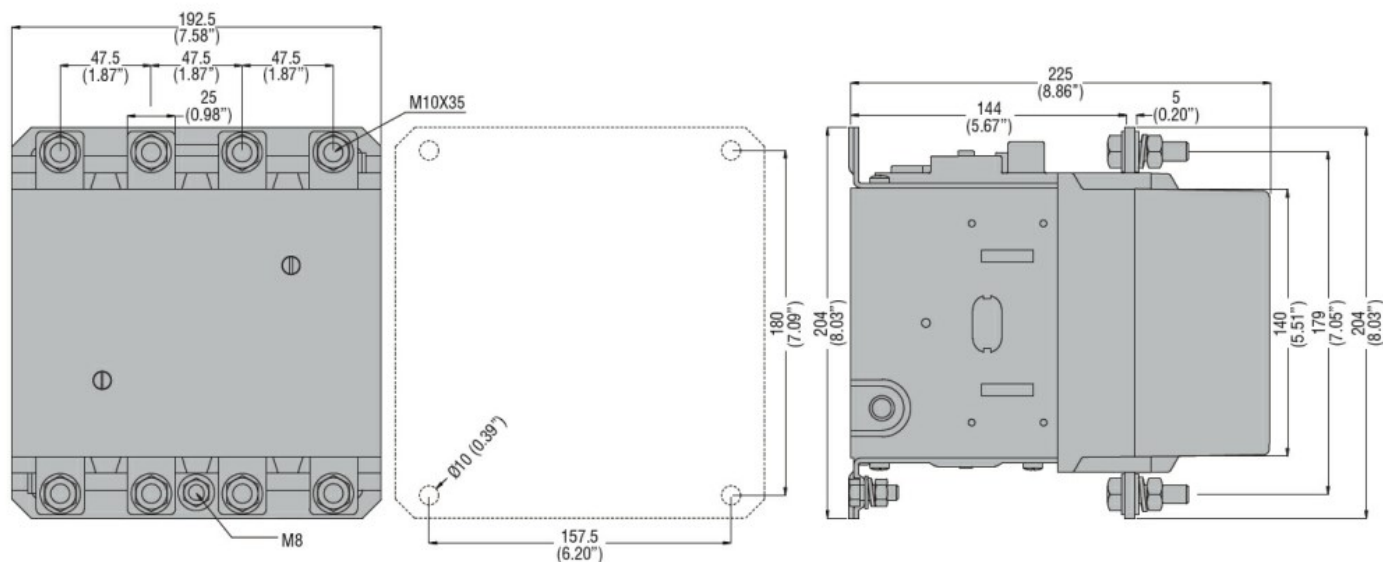
W	10
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DC coil operating

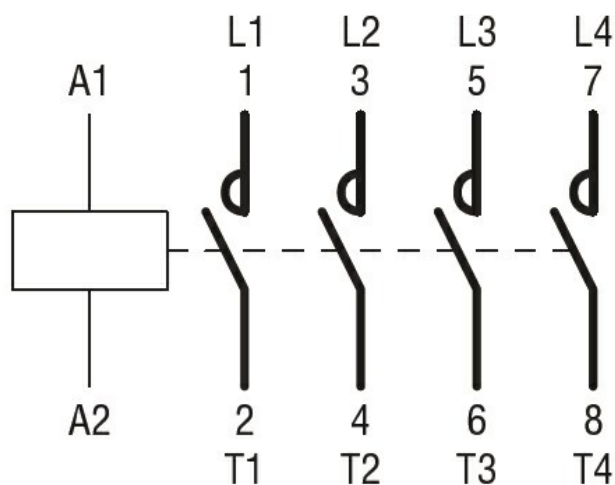
DC rated control voltage

		min	V	220		
		max	V	240		
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